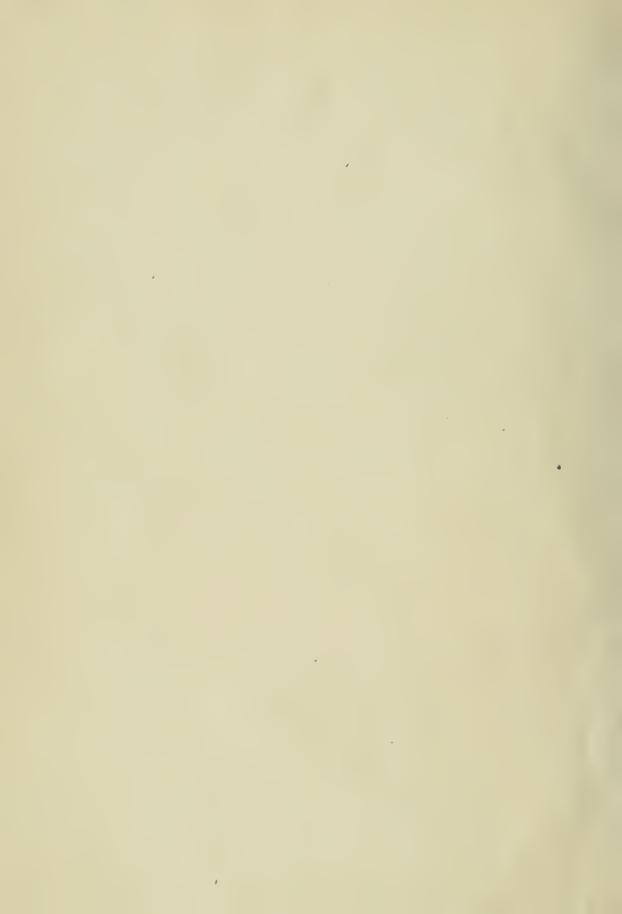








2-1 فلاعلاب





116,7, 1 177-182 - June 20, 1895-

ANIMAL KINGDOM,

O R

ZOOLOGICAL SYSTEM,

OF THE CELEBRATED

SIR CHARLES LINN ÆUS.

CLASSI.

MAMMALIA:

CONTAINING

A COMPLETE SYSTEMATIC DESCRIPTION, ARRANGEMENT, AND NOMENCLA-TURE, OF ALL THE KNOWN SPECIES AND VARIETIES OF THE MAMMALIA, OR ANIMALS WHICH GIVE SUCK TO THEIR YOUNG;

BEING A TRANSLATION OF THAT PART OF THE

SYSTEMA NATURÆ,

AS LATELY PUBLISHED, WITH GREAT IMPROVEMENTS,

By Professor GMELIN of GOETTINGEN.

TOGETHER WITH

NUMEROUS ADDITIONS FROM MORE RECENT ZOOLOGICAL WRITERS, AND ILLUSTRATED WITH COPPERPLATES:

By ROBERT KERR, F.R. & A.SS. E.

MEMBER OF THE ROYAL COLLEGE OF SURGEONS, AND OF THE ROYAL PHYSICAL SOCIETY,
AND SURGEON TO THE ORPHAN HOSPITAL OF EDINBURGH.

EDINBURGH:

PRINTED FOR A. STRAHAN, AND T. CADELL, LONDON,

AND

W. CREECH, EDINBURGH.

1792.

Entered in Stationers Hall, according to 3% of Parliament.

43 59913 SCULRE

TO THE

L R T TT

To study the works of Creation with intelligence, is the exclusive privilege of man, and highly exalts his dignity above that of all other animated beings. When he looks around among created objects. he is presented with innumerable instances of the most admirable contrivance in the structure of every being, for fulfilling the wifest purposes. Wisdom, Power, and Goodness, are manifested in the form and destination of every natural body. How then can man be more honourably employed than in studying the works of his-Creator? Every means, therefore, which can facilitate the acquisition of this vast and noble object of human knowledge, must certainly be conducive to promote the most rational happiness of mankind.

For the attainment of this Philosophy of Nature, it is necessary to possess some knowledge of the objects of creation, as they are connected with each other in one vast chain of being, and as naturally arranged under greater and leffer links of mutual relation. Without an acquaintance with thefe, the pleafing and highly important

fludy:

study of Nature, as a great Science, must, if not utterly impossible, be extremely difficult and embarrassing. Method and arrangement, like the clew of Ariadne, serve to lead the otherwise wandering mind through the devious mazes of Nature's labyrinth. Hence, in all ages, numerous attempts have been made to reduce the apparently endless confusion of natural bodies, under such a system of arrangement, description, and nomenclature, as might render the acquirement of these general views as easy and as familiar as possible.

It is not necessary to give any comparative view of the merits of the different systems which have been devised for answering this useful purpose; as it will be readily granted, that the palm of excellence has been almost universally allowed, by the learned of every country in Europe, to the arrangement of the great Linnæus, as contained in his justly celebrated work the Systema Naturae. To the genius and industry of that illustrious Naturalist, the world is indebted for the improvement of Natural History; and, to his indefatigable zeal, and example, the astonishing progress which this branch of knowledge has lately made is principally owing. If not the father of the science, he may justly be held as its second founder; and had he, like Aristotle, been aided by the power and riches of an Alexander, it is hardly possible to conceive to what degree of persection our knowledge of Nature might by this time have advanced.

As his admirable work, which has already gone through thirteen editions, is in the Latin language, it is shut up from many who might derive great pleasure and advantage, from prosecuting the study of Nature. This translation, therefore, of a work of such general importance, and which contains so much interesting information, will not, it is hoped, be deemed an unprofitable employment. By this publication, a vast and fertile field of science will be opened to many who are now precluded from the cultivation of Natural History,

History, merely by the language in which its principles are delivered. To the intelligent inhabitants of the country, and to those who are employed, either at home or abroad, in the pursuits of commerce, navigation, or agriculture, this science will open a new and never failing fource of rational amusement. Every walk in the woods and fields, affording an infinite fund of agreeable relaxation from professional business, may thus be employed in pleasing study; and that time, which now too often drags heavily on with those who are idle, more from want of an object of rational employment than from inclination, may be filled up with a constant and easy investigation of the beauties of creation. To many persons, this study may be rendered an object of pecuniary advantage, by enabling them to felect and preferve the more valuable specimens, which are in great request, and bear a high price among collectors of cabinets. Even the ladies may be induced, from the interesting nature of the study, to prefer the pursuit of Natural History to those frivolous publications, which have too often a hurtful, and never any beneficial tendency.

ONE part of this great System of Nature, the arrangement, description, and nomenclature of vegetables, has already been most laudably given to the public in English by the Litchfield Botanical Society, and with deserved applause. It is now proposed to translate the Animal System of the same celebrated author, which arranges, describes, and names the whole known Species and Varieties of Quadrupeds, Birds, Amphibious animals, Reptiles, Serpents, Fishes, Insects, and Worms. By this means, the mere English reader will be enabled to contemplate, with facility and pleasure, the number-less beauties which Nature every where presents to the attentive observer. The descriptions given by Linnæus are so admirably adapted to the subject, and are expressed in such clear and distinct terms, that any person, by a very small degree of attention, may discover

b 2

the name, place, habits, and uses of any animal that occurs, either in cabinets or collections, or in their native haunts; and may at once ascertain whether the specimen presented, be already known; or a non-descript species or variety.

THE translator was particularly induced to undertake this edition, by a recommendation from very respectable literary authority, the Authors of the Monthly Review, who, in the November number of the year 1787, warmly advise the publication of a Zoological Synopsis in English: For this purpose, nothing can be better adapted than the work now offered to the public, at least so far as the merit of the original is concerned; of the prefent edition it becomes its editor and translator to speak more modestly. The translation has been, and shall continue to be, carried on with the utmost possible attention to accuracy and fidelity of version, and to uniformity and perspicuity of language. He has shunned as much as the nature of the subject would allow, the employment of technical terms, having yet endeavoured to use English words in so precise and definite a manner as to serve every useful purpose of more recondite technical expressions. It is taken from the last edition of the Systema Naturae of Linnæus, as lately published, by the learned Professor Gmelin of the University of Goettingen; and has received large and numerous additions, which have been collected by the translator, from the writings of fuch Zoologists, Voyagers, and Travellers, as had not fallen under the observation, either of the great Linnæus, or of his excellent successor.

As the publication of fo very extensive a work must necessarily be attended with considerable expence, the mode of subscription has been adopted; and, encouraged by a highly respectable list of subscribers, the translator has ventured to publish this First half-volume of the LINNEAN SYSTEM of ZOOLOGY. He trusts greatly

greatly to the intrinsic value of the original work, when it shall, by means of this translation, become more generally known, for support in carrying through his arduous undertaking. By this, as a specimen, the public opinion may be guided, respecting the merit of the whole work, which in the original is undoubted; and a judgment may be formed of the fidelity with which it has been translated, and of the value and propriety of the numerous additions that have been made to it in this edition.

A very curlory inspection will shew at once, to such readers as are in any degree acquainted with the original, that what is now fubmitted to the public, is not, by any means, a mere translation; for, although every thing that is contained in Dr Gmelin's edition of the Systema Naturae be retained with the most scrupulous exactness, and confequently a great deal more than is in any of the Linnaean editions, very large additions have been made to the prefent translation, from zoological writers of eminence, whose works the last learned editor had then no opportunity to confult. How far these additions may be ultimately found to have improved the work, it belongs to others to discover; all that can, with any propriety, be said on this subject, is, that for the purposes of improvement alone, they have most sedulously been employed. Though the translator does not prefume to have executed his task in such a manner, as even completely to fatisfy his own ideas of a perfect zoological fystem, he can with justice affert, that neither labour nor expence have been withheld, to render it as free from faults, as the nature of the subject, and the present state of zoological knowledge, so far as it has reached him, would admit. Having earnestly endeavoured to do justice to this important branch of science, and faithfully to execute his duty as editor and translator, he humbly ventures, with some degree of confidence, to claim the patronage of the public, to a work in a great measure national, as it is intended to make the systematic part of

NATURAL

NATURAL HISTORY, through the whole ANIMAL KINGDOM, speak the language of Britain.

According to the reception which this specimen of the subject, and of the manner of its execution, may meet with from a discerning public, the editor will be directed whether to proceed in the publication, or reluctantly to desist; for, from the great expense which unavoidably attends the production of so extensive a work, it is evidently impossible, prudently to go on, without a subscription that shall be fully adequate to indemnify against all risk of loss: He is, however, determined to proceed with the work, should a sufficient number of subscribers appear, barely to desray the cost of publication, even if no views of profit should arise from the success of the subscription. At any rate, however, the class of Mammalia shall be completed, that, even if the work should not eventually be continued, this first part may not remain a mutilated and useless fragment.

May 1791, fome alterations of the plan of the work have been adopted: These are partly owing to the vastly larger additional information, which has been derived from various sources, than there was any reason at first to have expected; and they partly proceed from the advice of several respectable subscribers, and valued literary friends. In consequence of the former it is now sound, that the work will necessarily extend, when completed, to four volumes; and, by the latter, the editor has been induced to add a series of accurate engravings, which have been executed by an excellent artist. These will be found highly useful, for illustrating the systematic method of the celebrated Linnæus, and for conveying more perfect ideas, of several rare and curious animals, than any verbal description could possibly communicate. As this latter addition greatly enhances

define a little the originally proposed size of the volumes, though in a degree that is far from being sufficient to compensate for the additional expence arissing from the engravings; and, purposely to diminish, as much as possible, the magnitude of the work, a smaller type, and a much larger page, have been employed, than are ordinarily used in works of this kind.

THE conditions, as now finally settled, are these:—The work, as nearly as can be calculated, will consist of four volumes; to be published in successive half volumes, as fast as the necessary attention to correctness will allow:—Each half volume will be illustrated with several plates, and will be delivered in boards, to subscribers, at half a guinea:—A general introduction, giving a view of the subject, and of the various sources from which the additional information has been derived, together with proper title pages, will be delivered along with the last-half volume; and copious indexes will be affixed to each class.

As, from the uncommon nature of the mechanical part of the work, and the yet uncertain extent of the additions, in its present unfinished state, it has been found impossible to divide it properly, the subscribers are requested not to bind up the several parts, till the whole is completed, when proper instructions will be given for the bookbinders.

THOSE who are disposed to give their countenance and patronage to this undertaking, are requested to transmit their orders for subfcription, to the editor, as soon as possible, with directions how their copies are to be forwarded; and booksellers, or others, in possession of subscriptions, are entreated to do the same, that no delay may occur in taking the necessary steps for carrying on the remaining parts

of this extensive work, with all the despatch that is consistent with the accurracy and material improvement which have been adopted, as rules for conducting every part of the intended plan.

EDINBURGH, February 1792.

SYSTEMATIC

P R E F A C E

By DR GMELIN.

HE transcendent merits of the illustrious Author of the following Work, and his high fame as the Restorer and Reformer of the Science of Natural History, notwithstanding the malevolent opposition, and many violent attacks, of numerous detractors, are fo fully known and acknowledged by the public, as to render any studied panegyric on him or his writings totally superfluous. Even the novice in Natural History must be fully aware of the many and great advantages he derives from a Catalogue of all the known natural objects, properly arranged into Classes, Orders, and Genera; at one glance, with fuch affistance, he is immediately led to the particular subject he is in quest of; while, on the contrary, he must neceffarily spend much time and labour, if he is obliged to fearch amid the almost inextricable confusion of numerous and verbose descriptions which are dispersed through the voluminous writings of unsystematic Naturalists. Although this facility to the student be considered as the principal excellence in the labours of the great Linnaeus, by fuch as have chosen to stigmatise him with the contemptuous title of a mere Nomenclator, it is by no means the chief merit of his wonderful work; what really conflicutes its great supereminence, and which can be claimed by no other author, is, that it contains descriptions of all the natural objects which were in any degree known at Vol. I. the A

the time of its publication. These descriptions were mostly derived from the accurate and personal observations of the sagacious and indefatigable author, or from the communications of his numerous disciples, who have travelled over various parts of the world in search of natural knowledge; some of them, indeed, are collected either from the works of authors of acknowledged reputation, or from the private communications of respectable correspondents.

Human ingenuity is not expected to produce any work that is completely perfect: The field of science which Linnaeus had to explore is immense; and it was not to be supposed that, from such a furvey, the traveller, however enlightened and industrious, should return with perfect descriptions of all its parts; he is not therefore justly to be blamed for having fometimes been mistaken, or occasionally deceived by erroneous information; neither is he too hastily to be condemned for having fometimes given imperfect characters of the genera and species, or for having failed in a few instances to distinguish, with sufficient accuracy, the limits between the species and varieties of natural productions. Indeed there are scarcely two writers who have agreed on the distinction between what should be confidered as the characters of specific difference, and such marks of discrimination as ought to belong only to difference of variety. We flould not certainly condemn, as ignorant, that architect who, having laid firmly the foundation of an admirably contrived edifice, almost of infinite magnitude and variety in the number, dispositions, and uses of its parts; and who, having raised the superstructure, even in his own lifetime, worthy of the wonder and admiration of the world, should leave to posterity a few small parts yet unfinished, or the possibility of some additions, alterations, and improvements, which future wants, and increasing knowledge, might render necesfary: We certainly ought rather to admire the talents and ingenuity which could construct the original edifice in such a manner as to suffer these necessary additions, alterations, and improvements, without injuring its through, permanency, or symmetry. Let it not, therefore, be permanenced that the immortal author wandered from the province allowed for his talents when he undertook this great work, and accomplished it so far as the state of human knowledge would allow. His greatest enemies may be silenced by this consideration, that such alterations, additions, and improvements, as the System of Nature has nitherto required, have been made by the disciples of that great master, instructed almost for the express purpose of carrying forward and completing his arduous undertaking.

Many years * have now elapsed since the twelfth edition of this work was given to the public by its immortal author; and the joint labours of the many unwearied inquirers into nature which have appeared since that period, both of his disciples and others, have greatly enlarged our stock of knowledge, by making us acquainted with numerous facts and objects before unknown, and by increasing and correcting our knowledge of such as were already known, though imperfectly. Hence it is evident that, when these are referred to their proper places in the general system, it must necessarily become both more extended, and more comprehensive than in its former state. I trust, therefore, from these considerations that, in preparing and publishing this new edition, I have been employed usefully and agreeably to the public, as well as satisfactorily to the booksellers, who have long found that a new edition of the Linnaean system was most anxiously solicited by their employers.

In this edition the original work is not materially changed in its general plan; though fome particular parts have undergone a few A 2 alterations,

^{*} Dr Gmelin fays more than four lustres; the twelfth, or last Linnaean edition of the Systema Naturae was published in 1766, and that of Gmelin in 1788, making aninterval of twenty-two years..

alterations, perhaps immaterial in themselves, but which the increased state of our knowledge on the subject seemed to render necessary: It is enlarged by inserting, in their proper places, such genera and species as have been lately discovered: It is enriched by the addition of many accurate descriptions of new objects, which have been observed by later naturalists either for the first time, or with greater accuracy than formerly: It is augmented with additional synonimes from the works of several authors, which had either not occurred to the illustrious Linnaeus, or which have been published since his time: And, finally, the whole is corrected by means of the latest communications from respectable observers.

In the profecution of this arduous undertaking, I have selected and arranged, with great attention, all that appeared subservient to my views of improvement, from the great collection of books with which the royal muniscence of our present Sovereign, the King of Britain and Elector of Hanover, has enriched the Library of the University of Goetingen; and I have been greatly assisted in this labour by the gentlemen who have the direction of that establishment.

If I have any merit in the execution of this work, it is chiefly to be attributed to the affistance I have derived from the works of Schreber, Pennant, and particularly Erxleben, with regard to the class of Mammalia; to Latham, in the class of Birds; to Fabricius and Goetz, in the Infects; to Schroeter, in Shells; and to Muller, for the other Worms: For additions, alterations, and improvements in the Vegetable Kingdom I am greatly indebted to the younger Linnaeus, and in a very eminent degree to Murray my illustrious coadjutor in this work: In the Mineral Kingdom, I have largely profited by the labours of Cronstedt, by those of his commentator Veltheim, and by the works of Gerhard, Kirwan, and Bergman.

The

The following work, therefore, contains a Systematic Catalogue and description, not only of such objects as were known to the illustrious Linnaeus, but likewise of all those which have been discovered since his death by the many excellent disciples * which were trained under his learned instruction, and formed by his great example; and of every thing that has been observed by other great naturalists †, who, though not savoured with the instructions of that great master of this science, have followed his footsteps, and those of his worthy scholars. Nor must those writers ‡ be passed over in silence who, by their strictures and invectives, have endeavoured to depreciate the immortal labours of our illustrious author; even from their works I have derived information which has contributed toward the perfection of this edition.

But, after all the pains that have been taken, I am far from supposing that the present edition is so perfect as not to require many corrections, amendments, and additions, from the labours of my contemporaries,

- * As Falk, Solander, Dryander, Forskahl, the two Fabricii, Muller, Brunnich, Bjerkandr, Retz, Rothboel, Schreber, Murray, Ferber, Pajkuhl, &c.
- † Pallas, the Forsters father and son, Jacquin, Sonnerat, Scopoli, Lesk, S. G. Gmelin, Lepechin, Georgi, Hablizl, Guldenstaedt, Koelreuter, Gaertner, Houtujn, Storr, Bowles, Molina, Sestini, Cetti, Count de Borch, Dolomieu, Fortis, Andrea, Schranck, the two Hermanns, Caroso, Gilies, Clavigero, Bancrost, Aublet, Merrem, Gowan, Gottwald, Zimmerman, Walbaum, Bloch, Goetz, Werner, Batsch, Broussonet, Meidinger, Laicharting, Bergstraesser, Schaller, Fueslin, Knox, Herbst, Cramer, Drury, Seppi, Stoll, Schaesser, Harreri, Geosroy, Fourcroy, Chemnitz, Martin, Walch, Spengler, Oeder, Weiss, Weber, J. Miller, Schmiedel, Gisek, Roth, F. Hoffmann, Hedwig, Curtis, l'Heritier, Gloxin, Sage, Monnet, Burtin, Saussure, Voigt, Bruckmann, Giraud-Soulavie, Gensan, Pine, Abildgaard, Palasso, Peirouse, Wulfen, Klipstein, Trebra, Dietrich, Count Rasoumowski, and others.
- ‡ Particularly the Count de Buffon, Adanson, Camper, Laurence, Hacquet, the anconymous author affuming the name of Medicus, and others.

temporaries, and from the observations of my successors in the pleafing employment of cultivating the science of Natural History; for it must be evident to such as have maturely considered its particular parts and divisions, that our science is still far removed from a state of perfection. The difficulty of investigating permanently diffinctive marks for discriminating natural bodies from each other, must be evident to every inquirer into the subject: One great cause of this difficulty arises from the luxuriant variety which, as regulated or induced by various circumstances, nature has employed in giving colours to animals; these suffer variations from the separate or concurrent effects of many causes; such as, whether the animals happen to be in a wild or domestick state, or varied by the intermixture of nearly allied kinds, producing what are called hybrid races, or altered by the influence of different climates. At the same time, it is well known, in diffinguishing the species of many kinds of animals, particularly Birds, that there are no other marks of discrimination to be found except what are derived from difference of colour; while it unfortunately happens that the same species are apt to put on different appearances, and to be cloathed in different colours, at different times of the year; according as they are either wild or tame; in various stages of their life; in the different sexes; as they happen to feed on different foods; owing to the particular climates which they inhabit; and from various other circumstances. It is likewise obvious that many animals and vegetables, especially of marine production, have not hitherto been accurately observed through all their changes of age and fex; or have only been described or pictured from dead specimens, either dried, or stuffed, or preserved in spirits, or falted, or difforted and even maimed by various means, either accidental, or intentionally, for the purposes of deceit; this last is most evident in shells, which are frequently rendered colourless, or are otherwise altered from their natural appearance.

While this edition was at press, some information has been obtained, by which it might have been amended in some instances, and augmented in others. Thus, Camper, the greatest comparative anatomist of the age, having lately an opportunity to dissect the Siren*, has discovered that, on each side of the head, it is furnished with three true gills, separated from each other by membranes having tooth like appendages; that the mouth is armed with strong and firmly planted teeth; that the heart has only one ventricle; and that the abdomen is filled with very long and capacious intestines: From all these circumstances, he concludes that this animal ought to be considered as a fish of the order Branchiostegi; while in other respects it is more nearly allied to the genus Murena, of the order Apodes; although it differs materially from the other species of that genus, by having only three notched bones in the gills, and from the pectoral fins being each divided into four singer-like appendages.

Two apparently new species of sishes, frequenting the shores of the ocean near Bahus, have lately been discovered, and described in the Stockholm Transactions, Vol. xii. 1st quarter, No. 9. One of these, which was found at Khuedesholm, is by Ruthensparr, named Euprases; it is a species of Gobius, about an inch long, and spotted with black, having a distinct black spot on each side at the base of the tail; the second dorsal sin has eight pointed, and eleven blunt rays; the first dorsal sin seven rays; the pectoral sins sisteen rays each; the ventral sins, which are united, have eight rays; the anal sin eight rays; and the tail twelve: The other, which was found at Kyrkesund, is a species of Cottus, named Bubalis; it is brown on the back, and has a white belly; it is smaller than the Cottus scorpius, or feather-lasher; has a rough thorny head provided with two horns;

^{*} The Siren lacertina of the Linnaean, and Murena Siren of the present edition: This animal, which lives in muddy places and feeds on serpents, was lately described by Ellis in the Philosophical Transactions, Vol. lvi. 189.

the membrane covering the gills has fix rays; the first dorsal fin eight; the second dorsal thirteen; the pectoral fins fifteen each; the ventrals four each; the anal eight; and the tail ten rays.

A new species of Ape has likewise been lately discovered, and of which a particular description may speedily be expected from the pen of the celebrated Daubenton; this animal is said to resemble mankind more nearly than any formerly known species, and has received the name of Simia nasalis, from the elegant figure of its nose.

GOETTINGEN, 3 March 16. 1788. J. FRID. GMELIN.

S.E R.E M.TIS SUMME FIDEI VIRO,
CELSISSIMO ILLUSTRISSIMOQUE

D.NO CAR. G. TESSIN.

REGIS REGNIQUE SUIOGOTHICI SENATORI, REGIÆ CANCELLARIÆ PRÆSIDI,

AD AULAM REGIARUM CELSITUDINUM SUPREMO MARESCHALLO,

EDUCATIONI SEREN. PRINC. GUSTAVI PRÆFECTO, CANCELLARIO ACADEMIÆ ABOENSIS,

ORDINIS S.Æ R.Æ MAJ. SERAPH. EQUITI AURATO ET COMMENDATORI,
EQUITI AURATO DE AQUILA NIGRA, NEC NON OMNIUM
S.Æ R.Æ MAJ. SUECICÆ ORDINUM CANCELLARIO,

S A C R U M.

Cum quivis auctor speret se apud posteros gratiam habere, et posse secum duratura nomina educere, Auctori meae fortunae Libellum ultimo nunc offero.

ILLE me, peregrinum in patria, reducem excepit;

ILLE me, peregrinum in patria, reducem excepit;

ILLE mihi stipendium ab ordinibus Regni expetiit;

ILLE mihi spartam Medici classici procuravit,

ILLE mihi Munus, quo fungor, conciliavit;

ILLE mihi Titulum, quo distinguor, paravit;

ILLE me ad Serenissimos Reges introduxit;

ILLE me cuso Numismate posteritati commendavit;

ILLE meas errare boves, ut cernis, et ipsum

ludere quae vellem calamo permisit agresti;

quare

cana prius gelido desint absinthia ponto, quam nostro illius labatur pestore vultus.

TANTI MÆCENATIS

Upfaliæ 1766, d. 24. Maii.

Cultor devotissimus,

C. a LINNÉ.

O LORD,

How manifold are thy works! in wisdom hast thou made them all: The earth is full of thy riches.---Psalm civ. 24.

Great is our GOD, and great is his power, And his power is not to be fathomed.

LINNÆAN

INTRODUCTION.

AN, when he enters on the theatre of this world, naturally inquires, Who he is; whence he comes; whether he is bound; for what purpose he exists; and, by what bounteous means he is preserved? He finds himself descended from the ancestry of creation; he looks towards the enjoyment of a bleffed immortality; he should employ himself while here, in contemplating the wonders of Nature, and ought, in humble gratitude, to acknowledge the continually supporting arm of Providence. Curiosity is natural to man, in common with the rest of animals: These feast, and amuse themselves; they engender, take rest when weary, and provide convenient habitations according to their kinds; they study the preservation and support of their young, and exert their talents in providing for their own fafety; they enjoy the faculties of the bodily fenses, and are capable of several mental perceptions. But Man, more noble in his nature, and far superior to all other animals in the faculties of the mind, is possessed of infinitely greater capacity for observing and inquiring into those things which lie within the sphere of his intelligence; from these he is enabled to draw much juster inferences, through the powers of reafon; and his exclusive and inestimable privilege is, that from all these he is led humbly to admire the infinite perfection which is every where discoverable in the works of the allwife Creator.

B₂ How

How despicable a being were man, did he not raise his thoughts above those things which are merely human! Wherefore should be rejoice at being made one among living creatures? Not, surely, that he should gorge himself with food, on purpose to cram this body which is about to perish. Assuredly man was not placed in this lower world that he should forget the end of his creation, and be unmindful of his nobler expectations. This is true Wisdom, that a man should consider the ends and puposes of all things; and I am convinced that many might have possessed this wisdom, had they not, by being pussed up with the pride of their poor attainments, vainly considered themselves as wise already.

"The end of creation is, that GOD may be glorified in his works by Man

Hence it becomes of the greatest importance that we should be acquainted with the works of Nature, than which no study can possibly be more noble, neither can any thing exist more interesting to the human mind; for, while many things remain concealed for future investigation, that which at present, by its grandure, occupies our attention is more to be esteemed for its intrinsic worth, than on account of any recompense, however large, which may accrue to us from the study. Though a very large and magnificent portion of the wonderful works of Nature is laid open to our views, a much greater still lies hid from our eyes; for God hath not permitted all things to be within the reach of human capacity. There are many things of which we have learned the existence; but of those which may exist without our knowledge we can have no conception. How many things are there of which we have acquired our first knowledge in this age, and even within a few years? and a still larger portion of science, of which we are now entirely ignorant, will belong to our fuccessors. A vast field of inquiry is referved for future ages, when even the remembrance of this passing generation shall be entirely obliterated; and the time will come when the industry and experience of those who are to follow us shall have made many discoveries which now lie concealed; for Nature does not communicate all her fecrets at once. We vainly believe ourfelves among the favoured number of the initiated, while we still remain only

in the porch of Nature's temple; for the holy mysteries are not indiscriminately revealed to all her votaries; they are concealed in the sacred recesses of the cell, or interior chamber, where truth lies veiled, and is only to be attained by patient perseverance. "If temperate youth, mindful of his Creator, would follow these researches, if these noble views were inculcated by the aged and listened to by the young in years, scarce even then should we reach the depth where truth lies buried, which we now, with careless study, search for on the surface *."—" It is certainly of great importance to penetrate into the hidden recesses of Nature, and, not remaining contented with outward appearances, to dive into the sacred mysteries of the divine operations †."

Influenced by these considerations, and eager to clear the way for discovering her secret operations, I have dared to enter the almost impenetrable forest of Nature, not dismayed by the thorny brakes with which it is environed: These I have carefully avoided, so far as was practicable or proper; though I have learned by experience, that no degree of circumspection can preserve even the greatest diligence from error and mistake. I have therefore submitted with patience to the scoss of the ignorant and the malicious, who have either contemned the objects, or envied the success, of my laborious pursuits; despising those grinning apes and chattering baboons whom I have encountered in my journey, with persevering and laborious patience I have followed the road which fortune and the limits of my abilities have pointed out: And, though far from meeting with that success which the greatness of the subject deserves, and my attachment to the science of Nature has caused me eagerly to desire, I yet have reason, with the Psalmist, devoutly to exclaim,

O LORD!

How great are thy works!

A brutish man knoweth them not,

Neither doth the fool understand them.

LIST

^{*} Preface to the Mus. Worm. p. 1.

[†] Seneca.

LIST OF THE SEVERAL EDITIONS OF THE SYSTEMA NATUR Æ.

- 1. Leyden, 1735. Imperial folio, confisting of 12 pages; published under the inspection of J. F. Gronovius at my defire. This is only a view, or general outline, of the work; like a geographical map, which gives only a general idea of a country to be afterwards more particularly delineated in a topographical plan.
- 2. Stockholm, 1740. Octavo, 30 pages. Revised by myself, and with the addition of the nomen-clature and characters of animals.
- 3. Hall, 1740. Oblong quarto, 70 pages. Published by J. J. Langen. The same as No. 1. with the addition of a German translation.
- 4. Paris, 1740. Octavo, 180 pages, and 1 plate. Published by B. Justieu. The same as No. 2. with the addition of French names.
- 5. Hall, 1747. Octavo, 88 pages. Published by M. G. Agnethler. The same as No. 2. with the German names added.
- 6. Stockholm, 1748. Octavo, 232 pages, and 8 plates. Augmented by myself with the addition of the effential characters of vegetables, and the species of animals and minerals.
- 7. Leipfig, 1748. Octavo, 232 pages, and 8 plates. Published by the booksellers. The same as No. 6. with the addition of German names.
- 8. Stockholm, 1753. Octavo, 136 pages. The vegetables edited by J. J. Haartman; and the mineral kingdom, in octavo, by H. Moller.
- 9. Leyden, 1756. Octavo, 226 pages. Published by Gronovius. The same as No. 6. with some very small additions respecting birds and sishes.
 - 10. Stockholm, 1758. Octavo. Published, with very large additions, by myself.
 - 11. Leipfig, 1762. Octavo. A faulty pirated edition, with no improvements.
 - 12. Stockholm *. In this edition, published by myself, are inserted,

All the species of animals which have come to my knowledge, with their differential characters, synonimous terms, places, and trivial names; the whole Method and Arrangement of the Animal Kingdom being improved in consequence of more extensive observation.

The class of Fishes is first arranged in a new method, taken from the rays of the fins.

The characters and differences of Plants are improved and amended.

The species of Minerals are augmented with additional observations and trivial names.

To the whole is prefixed new observations on the Kingdoms of Nature, with an introductory discourse concerning Nature †.

In

^{*} There is no date given of this edition, which is flyled his ultima penultimaque editio -T.

[†] In this lift may be added, 13. Leipfig 1788. Published by Professor Gmelin, with very large improvements, derived from all the Zoological writers and travellers since 1766; from which edition this translation is taken, with several additions from sources that have not occurred to the learned Professor, which will be noticed in their proper places.—T.

In this undertaking I have been affifted by the following collections:

- 1. The Museum of King Adolphus Frederic: The first volume of a descriptive catalogue of which was published, in solio, at Stockholm, 1754; and a prospectus of the second volume, in octavo, at the same place in 1764. Both volumes are rich in exotic animals.
- 2. The Museum of Queen Louisa Ulrica: Published, in octavo, at Stockholm, 1764; very rich in shells and infects.
- 3. The Museum of Count Tessin; Published, in folio, at Stockholm, 1753; rich in minerals and shells.
- 4. The Museum of C. de Geer; rich in amphibious animals, insects, and other rare productions of nature.
- 5. The Museum of the Academy at Upsal; stored with animals collected from every part of the world.
- 6. The Museum of the Academy of Sciences of Stockholm; containing many fine natural productions.

For the advancement of this science, I have made journeys to examine the natural productions of the following countries:

Lapland, in 1732. Unpublished.

Dalekarlia, in 1784. Unpublished.

Oeland, in 1741. Published, in Swedish, at Stockholm in 1745, octavo.

Gothland, in 1741. Published along with the preceding.

Westgothland, in 1746. Published, in Swedish, at Stockholm in 1747, octavo.

Scania, in 1749. Published in Swedish, at Stockholm in 1751, octavo.

With the same views I published the Fauna Suecica at Stockholm in 1746, which was republished, with large additions, in 1761, both in octavo. And I have written on the same subjects in the Amoenitates Academicae, six volumes octavo; published at Stockholm in 1749—1763, the 7th vol. in 1769, and the 8th and 9th volumes, published under the inspection of Mr Schreber at Erlang, in 1785 *.

I have likewise employed the information received from the following scientific journeys, undertaken by my former pupils.

- C. Ternstroem, into Asia in 1745: He died at Pulocondore.
- P. Kalm, through Penfylvania and Canada, 1747.

 His journey in N. America was published, in Swedish, at Stockholm, 1753—1760, in 3 vols.
- L. Moutinus, into Lula Lapmark in 1749.
- F. Hasselquist, through Egypt and Palestine in 1749.

His journey through Palestine was published, in Swedish, at Stockholm, in 1757, octavo.

* This latter circumstance must necessarily be an addition to the Linnæan enumeration by Dr Gmelin.—T.

- O. Torenius, to Malabar and Surat in 1750.
- P. Ofbeck, to China and Java in 1750.

His journey to the East Indies was published, in Swedish, at Stockholm, 1757, octavo.

P. Loeflingius, to Spain and America in 1751.

His journey through Spain was published, in Swedish, at Stockholm in 1758, octavo.

- P. J. Bergius, to the Isle of Gothland in 1752.
- M. Kaehler, into Italy and Apulia in 1752.
- D. Solander, through Piten and Tornao Lapland in 1753.
- D. Rolander, to Surinam and St Eustatius in 1755.
- A. R. Martin, to Spitsbergen in 1758.
- C. Alftroemer, through the fouth of Europe in 1760.
- J. Falk, to Gothland in 1760.

The purpose of this work will be fully accomplished if it should hence forwards induce travellers, and curious inquirers, to examine carefully after known facts in natural history; to study such cabinets of natural history as are accessible; and to insert all new and not insignificant facts in the journals or transactions of their country: By these means the science of Nature will more readily be advanced, and vulgar errors be exposed; the generic and trivial names will be rendered more fixed; the foundations of economy, derived from this science, will be established; and the elements of a true Theology will be formed.

In the mean time, till these things can be perfected, by a more extensive and fuller knowledge of Nature, the following work is offered to the public.

Thou hast taught me, O GOD, from my youth up, and even until now I will tell of thy wondrous works.

UPSAL, 1766.

THE

EMPIRE OF NATURE.

WAKENED, as if from a dream of ignorance, I have seen darkly, as he passed, the Eternal, Infinite, Omniscient, Almighty God, and am amazed! I have read of him in some traces of his wondrous works, the smallest of which, though comparatively infignificant, even to a degree of nothingness, evinces the most incomprehensible perfection of Power and Wisdom. I have observed that the animal world depends for existence on the vegetable kingdom, that the vegetables draw their sustenance from terrestrial matter, and that this last originates from the Earth. The world moves in an undisturbed orbit round the Sun, from which it is supplied with genial heat, the fountain of life: The Sun itself revolves round its axis, accompanied by the planets; and the whole fystems on fystems of the stars, in inconceivable vastness of number and dimensions, suspended on nothing, all move through free space, by the mediation of a force derived from "the great first Mover; the Being of Beings; the Cause of all " Causes; the Preserver and Governor of the Universe; the Lord and Architect of "this vast mundane system *."-" Should we to this incomprehensible power give the or name of Fate, we shall not err, for on this every thing that is depends: Shall we " call it Nature, we are right, for from this every thing derives its being: If we fay " that it is Providence, we fay truly, for by its guidance the Universe accomplishes all " its operations +."-" All is fense, all eye, all ear, all mind, all soul; every thing is " in Him, and HE in all things. Beyond this, even the conjectures of fancy are be-" wildered in their attempts to investigate †."-" The Deity is equally eternal and "beyond conception infinite, neither begotten nor created "."-" HE, without whom " there is nothing, who hath begun and completed every thing that is, who both fills our eyes with wonder, and eludes our utmost observation, HE is only to be seen by " humble

VOL. I.

^{*} Aristotle. † Seneca, Quaest. ii. 45. On this subject, however, we must be cautious not to assume the effect for the cause. † Exodus, xx. 4. | Pliny's Nat. Hist. ii. 7.

"humble contemplation of his perfections; for His Glory shines in the splendour of holy and impenetrable retirement, to which only the soul hath access *."

The universe includes every thing that exists under God, and which can come under our observation by the agency of our senses. These are the stars, the elements, and the world, whirling round with never ceasing and unerring velocity. "We perserve that the steady motions of these bodies must depend on the power of eternal laws, and that the order of their apparently wandering course cannot proceed at random; neither have the other orbs been collected with such infinite contrivance that the vast mass of our world might remain immoveable, on purpose only to view the heavens revolve around †."

The stars are the most remote lucid bodies of the creation which revolve in a perpetual motion: They either shine by their own proper light, as the Sun, and the other more remote fixed stars; or they are planets deriving light from other stars. Of these latter bodies, the primary planets, belonging to the Solar System, are Saturn, Jupiter, Mars, the Earth, Venus, and Mercury ‡. Some of these primary planets have secondaries, or satellites, which follow the motions of the primary round which they revolve; as the Moon round the Earth, and several others of a similar kind. "Neither can so vast "a machine subssift without a preserver, nor can the regular course of the stars be "produced by the impetus of a fortuitous cause; for whatever is set in motion by the effect of chance will frequently have its progress disturbed, and must speedily be "jumbled together ||."

The elements are the most simple natural substances; of them the atmospheres of the planets are composed; and by them, in all probability, the spaces between the stars are silled.

FIRE,	is	luminous,	resilient,	warm,	evolant,	vivifying.
AlR,		transparent,	elastic,	dry,	encircling,	generating.
WATER,		diaphanous,	fluid,	moist,	gliding,	conceiving.
EARTH,		opake,	fixed,	cold,	quiescent,	barren.

[&]quot;Thus the whole order of this world is formed from confusion §."

The

^{*} Seneca, vii. 31. † Ibid. ‡ To these add the Georgium Sidus, discovered by Herschel.—T. ‡ Seneca. § Helmontius.



The Earth is a planetary sphere, which turns round its axis once every twenty sour hours, and which revolves in an yearly orbit round the Sun; it is surrounded by an elementary atmosphere, and covered by a stupendous crust of natural bodies, the mere surface of which forms the whole object of our science. This globe is terraqueous, or composed of land and water; its more depressed parts are overslowed with water, and gently pressed together by the sea; the more elevated parts are deserted by the water, and gradually enlarge into dry and habitable continents. This dry land is sprinkled by vapours, which, rising from the water, are gathered into clouds by the action of the air; by this means the highest Alpine mountains, covered with eternal snows, furnish rivulets which unite to form perpetually flowing rivers: These, pervading the thirsty earth, afford moisture to the productions of the ground, which serve as food for the living inhabitants: At the same time the motion of the winds excites a genial sire, which supplies vivifying heat to natural bodies. "The revolutions of the elements are alternate, and the changes among all things are reciprocal; so that whatever is lost by one is received by something else "."

"Nature is the immutable law of God, by which alone every thing is, and acts, and is appointed to act †." This artificer of all things, taught by its own laws, by none instructed, never acts by starts; it works silently, following what is most proper in all its operations; nothing is performed in vain, and nothing done superstuously; each object receives what is necessary to its well being, and all are uniformly provided, while Nature unremittingly pursues an undeviating tract. "All things assist Nature, that all her works may be perfectly accomplished ‡."

Natural bodies confist of every thing that springs from the hand of the Creator, and which enters into the constitution of this world: These are divided into the three kingdoms of Nature, the boundaries of which meet together in the order of Zoophites ||.

MINERALS, are concrete bodies, neither living, nor fentient.

VEGETABLES, are organized, living, and fentient bodies.

Animals, are organized, living, and fentient bodies, possessing the power of spontaneous loco-motion.

C 2

Nature

^{*} Seneca, iii. 10. coral, coralines, &c.

"Nature does not confine her operations to one form, but delights in variety; she renews one figure out of another, not contented with uniformity in procedure, and rejoices in undiminished power *."

The earth, as has been already observed, is composed of the three kingdoms of Nature, which constitute what may be called her Empire; these are,

THE MINERAL KINGDOM, which in rude masses occupies the interior parts; being generated from salts, it is accidentally mixed together, and sashioned by chance in the ground.

THE VEGETABLE KINGDOM, clothes the furface of the earth with verdure, imbibes moisture through bibulous roots, breathes the air by its quivering leaves, celebrates nuptial festivities in a genial metamorphosis, and continues its various kinds by the dispersion of feeds within proper limits.

THE ANIMAL KINGDOM, adorns the external parts of the earth with fentient beings; these have voluntary motion, they respire, produce eggs by means of generation, are impelled to action by the cravings of want, by the delights of love, and by forrowful pain. They likewise restrain, within proper bounds, the numbers of animals and of vegetables by preying on both.

Man, endowed with wisdom, was formed by his Creator the most perfect, last, and noblest of all his works on this earth; clothed with wonderful marks of the Divine Majesty, he judges, according to the limits of his senses and capacity, of the amazing contrivance evident in creation; he admires its associations beauties and consummate perfections, and, from these, is led humbly to adore the glorious author of all. Carrying his views through the multiplied generations which have passed away, he ascends to the knowledge of the Creator; and, looking forward to the constant perfervation of all things, he discovers the never failing watchfulness of Nature over all her works. On one hand, the Divine power is seen to enoble the earth by the production of vegetables, and to give honour to the vegetable kingdom in its usefulness to animals; on the other hand, man evidently reslects back the radiant beams of reason towards the glorious and majestic fountain of all perfect wisdom. "Thus the whole world is full of the divine glory, while in man all his works praise God †." Man, formed by the quickening hand of God out of the sluggish ground, contemplates the majesty of

his Author through the ends of creation; he is appointed a fit inhabitant of the earth, that he may shew forth the praises of the most high. "This contemplation of Nature may be justly considered as a celestial pleasure escaped from the porch of the ban-queting house of heaven; and the mind which partakes of it, though encumbered with the darkness of human nature, enjoys a part of the celestial light, and spends this life below as if in a terrestrial paradise "."—"Neither can true piety, nor the full measure of gratitude which is due to God, be perfectly comprehended without a knowledge of Nature: Man was made for the contemplation and admiration of his God; and to this noble object the best and readiest course lies through the study of natural knowledge t."

Wisdom, an emanation of the Divine Spirit, is man's highest perfection; by it he forms proper conclusions concerning such things as present themselves to his senses, which can only take cognifance of fuch natural objects as are immediately around, and within reach of their spheres of action. Hence the first step towards the attainment of wisdom is to know natural bodies, and to distinguish them from each other: This distinctive knowledge requires that just ideas be formed of each particular body, and of all the marks imprinted on them by Nature, whereby they may each be discriminated from every other body; and, that this knowledge may be communicable, distinct proper names must be affixed to each individual object; for, unless the name of any object is known, it becomes impossible to apply such knowledge as may be already discovered on the subject to its proper object. These are the elements and alphabet of the Science of Nature, which cannot possibly be studied to advantage by any one who is ignorant of this necessary preliminary knowledge. " When the proper genus of " any object is unknown, even the most accurate and elaborate description cannot " convey any certain knowledge of what is meant, but must for the most part remain " vague and uncertain †."

Methodical

^{*} A&. Holm.

[†] Cicero.—After the death of Marcus Aurelius, the foldiers elected feveral Emperors who hardly knew how to write their names; these illiterate princes, considering learned men as lazy and useless drones, lest learning entirely to the cloisters. The Monks at first held the study of Nature in contempt; they next aspersed it as unattainable; and, lastly, they persecuted its followers as forcerers: From this time natural knowledge, and the revealed will of God, came to be considered as contradictory to each other; and, from the influence of this error, many bigots, even to this day, still persist in fanctified ignorance. Subm, Ad. Nidros. 1763.

¹ Caefalpinus.

Methodical arrangement, which is the foul of science, indicates every natural body at first sight, so that it may be known by its own name; and this name points out whatever the industry of the age has discovered concerning the body to which it belongs: Thus, amidst the greatest apparent consusion of things, the order of Nature is seen to retain the highest degree of exactness. This systematic arrangement is most conveniently divided into branches, subordinate to each other, which have received various appellations; thus,

Class,	Order,	Genus,	Species,	Variety.
Highest genus,	Intermediate genus,	Proximate genus,	Species,	Individual.
Province,	District,	Parish,	Ward,	Hamlet.
Legion,	Batalion,	Company,	Mess,	Soldier.

"For, unless natural bodies be reduced under regular order, and distributed as in the divisions of a well regulated camp, every thing that is known concerning them must remain in confusion and uncertainty *."

The names and characters employed in fystem must apply accurately to the order of arrangement, and are therefore to be divided, as above, into Classes, Orders, Genera, Species, and Varieties. The differential characters, which distinguish these divisions and subdivisions from each other must likewise occupy a principal part in systematic arrangement; for it is indispensibly necessary to the knowledge of any individual, that its name may be readily known and discovered from among the rest; "for if the "names of things be confused, the whole science must fall into inextricable perplexi- "ty †." Hence one great employment of man, at the beginning of the world, must have been to examine created objects, and to impose on all the species names according to their kinds.

The science of Nature is sounded on an exact knowledge of the nomenclature of natural bodies, and of their systematic arrangement; this, like the clew of Ariadne, enables a philosopher to travel alone, and in safety, through the devious meanderings of Nature's labyrinth. In this methodical arrangement, the Classes and Orders are the creatures of human invention, while the division of these into Genera and Species is the work of Nature. All true knowledge refers finally to the species of things, while, at the same time, what regards the generic divisions is substantial in its nature.

One

One order of things originates from the Creator, while the other is the work of man, and is the subject of our present labour. God, beginning from the most simple terrestrial elements, advances through Minerals, Vegetables, and Animals, and finishes with Man. Man, on the contrary, reverfing this order, begins from himself, and proceeds downwards to the materials of the earth. The framer of a systematic arrangement begins his fludy by the investigation of particulars, from which he ascends to more univerfal propositions; while the teacher of this method, taking a contrary course, first explains the general propositions, and then gradually descends to particulars. Springs unite together into rivulets, and these conjoin to form rivers; through these the skillful navigator ascends so far as his art allows, but is never able to reach the original A distinct knowledge of things being given us, we must endeavour to penetrate farther into their particular properties, and to investigate, as far as we are able, their phenomena, their mysterious operations, their natures, their virtues, and their uses. In the science of Natural History, through its several departments of the three kingdoms of Nature, lies the only fure foundation of Regimen, Medicine, and Economy, both that which regards the arts of life, and that which is followed in the operations of Nature. "Happy are those who cultivate this science, if they know and emof ploy justly the bleffings which they enjoy!"

All created things are proofs of the Divine power and wisdom, and fertile sources of human happiness; in their proper use the goodness of God is manifested to man; from their beauty and sitness the wisdom of the Creator shines forth; and, from the admirable economy which appears in their preservation, their just proportions to each other, and in the means employed for their perpetual renovation, the power of the Divine Majesty is most clearly shewn: Therefore the discovery of these things has in all ages been highly esteemed and earnestly prosecuted by the wise and truly learned; while this study hath only been despised by the ignorant and the foolish.

I will declare thy wondrous works, O Lord! and all the generations of the earth shall speak of the might of thy terrible acts.

ANIMAL KINGDOM.

NIMALS possess fensation through the powers of a living organization, which is animated by the action of a medullary substance; they perceive by the energy of nerves, and move themselves from place to place by the exertions of their will. The life of their animated, and perpetually moving, hydraulic machines, is sustained by an electrico etherial lambent slame, which originates in the brain; and in it is the residence of the will, the incomprehensible cause of voluntary motion.

Nature, munificent in the multiplication of her works almost to prodigality, has ordained that animal life should originate in minuteness beyond conception; it is generated in a fluid, and begins to exist in the liquid matter of an egg; for, as has long ago been observed by Aristotle, "every living thing arises from an egg." The egg within its coats, which often contain the white or glutinous matter, is always composed of a yolk; floating on the upper surface of this is inserted the pulsatory speck, or punctum saliens; this enlarges, by a species of vegetation, into an embryo, which, like a plant by its stem, is attached by the umbilical chord, and rooted in the placenta of the yolk.

The prolific mother, before conception, produces a living medullary abridgement of a new animal, perfectly refembling her own kind, similar to the plume in vegetable feeds, which has been called the carina of Malpighius. This, through the male influence, analogous to the action of the farina foecundans, or pollen of plants, assumes to itself a heart, which ramisses through the whole of its minute body; for it is observed that the pulsatory speck, or punctum faliens, of the hatching egg, first presents to view a beating heart, and a brain, with its medulla oblongata. This little heart, which stops when cold, is excited to action by the influence of genial heat; and into this the gradual expansion of the air bubble presses the nourishing liquors, through proper vascular canals prepared for their conveyance. The first rudiment, therefore, of life in living animals is only a medullary ramification continued from the first creation of each species; hence the egg may be considered as a living medullary bud, existing from the

very origin of the mother, though it does not assume its own proper existence till it be furnished, by impregnation, with the paternal heart. From this it follows, that equivocal generation is an impossible absurdity.

The hydraulic animal machine refembles that of vegetables, but is exclusively conjoined with a vast number of faculties which are lodged in, or are dependent on the structure of, the brain. The soft internal medullary pith stretches out from the brain, as from a bulbous root, into a simple stem, which is infinitely subdivided in its course, and sends out nervous silaments, similar to itself, for the supply of every part of the body. The hardened inward woody matter, which, covering the former, arises from the skull as from a root, elongates into the vertebral stem, is articulated by moveable joints, and branched with opposite boughs; to these are attached the sibrous, slessly, and contractile muscles, analogous to leaves, spreading in determinate order, and having their extremities fixed to the nearest joints. The external cortical substance is rooted internally in the lacteals, meets together in the heart, as a bulb, and spreads out in a double and similar vascular stem, which branches similarly into infinitely ramified double twigs; from the extreme bifurcation of these arise the genital parts of fructification.

The interior faculties of the animal machine are, 1st, The animal, electric, motive faculty, or artifan of its divine life; this, acting fecretly within the organized bulbous brain, wills and thinks, and, fpreading its influence through the electrical threads of the nerves, rules and governs the whole machine. 2d, The vital pneumatic faculty, which, refiding in the lungs, absorbs the vital principle from the air for supporting animal heat, and for preferving the living principle. 3d, The natural hydraulic faculty, which refides in the vascular system, and originates from the perpetually moving heart; this alternately receives the fluids from, and propels them to, every part of the machine, adding or taking them away according to necessity, and perpetually guarding against deficiency or redundance. 4th, The digestive faculty, which, residing in the alimentary canal, prepares proper juices for being taken up by the lacteal veffels, which carry them into the fystem, for the nourishment and support of the whole. 5th, 'The genial spermatic faculty, which is placed at the extremity of the trunk containing the animal and natural faculties; this conjoins the influence of the nervous and vascular organs, and gives origin to a distinct animalcular machine, in every respect similar to the parent stock.

The instruments of the senses are physical organs, placed at the extremities of nerves derived immediately from the brain: Through the influence of these the animal, by a Vol. I.

Divine

Divine contrivance, is enabled to perceive external objects.—The EYE is a camera obfcura, which paints external objects in their just forms, proportions, and colours.—The EAR is a drum, composed of a tight membrane streached over the cochlea, which gives perception of sound, in consequence of tremulous motions excited by the air.—The NOSE is a broad, convoluted, humid membrane, which arrests the volatile effluvia which sloat in the air.—The TONGUE, beset with little spongy papillae, attracts such substances as are applied to it in a state of solution.—The sense of Touch resides in soft papillae, which are spread every where over the skin, and which readily assume the figure of such bodies as come into contact with them.

Most animals enjoy the use of these senses, though all are not possessed of every one of them: They might have employed additional species of perception, if it had pleased the Creator to endow them with a greater number of sensative organs; as the magnet perceives the presence of iron, and as amber indicates the existence of electrical phenomena: Antennae are only given to insects, and the uses of these organs are as much unknown to us as those of the Ears must necessarily be to that tribe of animals. The Eye acts by the agency of light; the Ear through the influence of air; the sense of Touch is produced by the contact of solid bodies; the Nose examines volatile substances by means of its nerves; and, lastly, the Tongue, by its sibrils, attracts soluble things, that we may be enabled to judge if they are agreeable, permitted, and fit for use; or whether they be disagreeable, forbidden, and noxious; and reslection induces us to choose such as are grateful to our senses, rejecting those which are disagreeable.

JOY,	is	childish, spongy, laughing,	fanguineous, warm, transpiring,	red, freely pulfing, alert,	oily, breathing eafily, Life.
FEAR,		youthful, lax, . fuffocating,	phlegmatic, chilling, purging,	pale, weakly pulfing, trembling,	watery, breathing fhort, Difease.
ANGER,	• "	manly, firm, fnorting,	choleric, hot, urining,	yellow, ftrongly pulfing, agitating,	fpiritous, asthmatic, Medicine.
GRIEF,		aged, rigid, fighing,	melancholic, cold, costive,	atrabilious, flowly pulfing, quiescent,	acid, breathing difficultly, Death.

Thus,

Thus, Joy fills itself with the good things of this life; Fear escapes from danger by slight; Anger defends itself by resistance; and Grief mourns for the loses and miferies which are incident to this mortal state.

The policy of Nature is equally manifested in all its kingdoms: For, as nations are not created for the fake of their rulers, but as governors are appointed to watch over the interests of the governed, so herbivorous animals are created for subjecting vegetables under proper restriction, and carnivorous for preventing the exuberance of those animals that live on vegetables; and of these last the greater keep the lesser within proper bounds. Man, in his character of an animal, is intended for preserving order over all, but chiefly on his own account; excited by a favage inflinct, he exercises tyrannic rule, that just proportions may be perpetually preserved among the members of the natural commonwealth. " Many individuals, in their turn, among the citizens of " this great republic, vainly conspire against the majesty of rational Man, their ap-" pointed chief magistrate, whose great employment is to acknowledge the high Au-"thor of the whole "." As water collects from multitudes of small springs, through enlarging rivulets, streams, and rivers, to flow into the immense ocean, so the commonwealth of Nature, beginning from the vastly numerous plebeian rank of animals, ascends, through less numerous patricians, and by a scanty nobility, to Mau, the emperor and ruler of the whole; while even the smallest animals, which, by their infinite number, possess vast power and energy, contribute to the wellfare of the larger; and the less active give place to such as are more excellent: Thus Nature is never greater than when it feems composed infinitely of little things. The agents of this natural police, each appropriated to its proper department, are equally numerous with the species of animals; all being prompted to the proper discharge of their duty, because their own prefervation depends on that being accurately fulfilled, that nothing may be neglected, and nothing done in vain. And, lest any one should encroach on the province of another, and thereby deprive his neighbour of the reward appointed to his actions, the Law of Poison is established, under the pain of capital punishment, and recorded even in the animal fenses, chiefly those of taste and smell, lest transgressors, by pleading ignorance, should escape.

The principal occupations of the inhabitants of Nature are:—To multiply their species, that every thing may remain in just quantity and proportion:—To preserve equilibrium among the species of animals and vegetables, that a just proportion may for ever be continued; this end is accomplished in various ways; 1st, by annually cutting

down the vegetable crop, that the yearly growth may be renewed; 2d, by restraining the numbers of such as become erroneous, lest any of the proper species be expelled; 3d, by destroying languid, dead, nasty, desiled, stagnant, acid, and putrid matters, that the elegance of Nature may be preserved:—Lastly, To defend themselves from extinction, lest the execution of Nature's laws should be neglected.

The economy of Nature is employed in the Generation, Prefervation, and Destruction, of things; and all Nature conspires together that the works of the Creator may continue unimpared. Animals are generated in the genial influence of warm blood, having need of the care of others for their education; and, as the Creator, who could not be rewarded, took care of the first race of individuals, this trust passes, in the descending line, to their offspring, who do not repay the labours of their parents. Prefervation is to be accomplished by the provision of daily food, which, being widely scattered, is therefore to be sought after with diligence; thus, want scatters those over the face of the earth whom love gathers together. The destruction of one individual is necessary for repairing the wants of another; life must be sustained by constant and laborious search after the carcasses of objects sit for food, and these do not abundantly occur: Thus, a continual devastation of all things is produced; the more alert escape the danger by their bravery, by defences, and by various contrivances; while the more languid sink under the perpetual warfare; the most active hasten on in their course, that Nature may perpetually rejoice in the constant renovation of all her works.

The incentives of Nature, which are implanted in all her works, that they may readily perform their duty, are—Love, which kindly convocates the fexes, and excites to the multiplication of their kinds;—Craving Hunger again disperses them, that they may labour for their preservation; and—Horrible Pain stirs them up to destroy, and causes them to avoid destruction. In all, the wisdom of God is made manifest.

The

The natural Division of Animals into Classes, may be formed from a knowledge of the Internal Structure:

A heart with two auricles; and two ventricles; Warm and red blood:	Oviparous.	Cl. 1. Mammalia. Cl. 2. Birds.
2. A heart with one auricle and one ventricle; Cold red blood *:	Voluntary lungs. External gills.	Cl. 3. Amphibia. Cl. 4. Fishes.
3. A heart with one auricle and one ventricle; Cold colourless fanies:	Having antennae. Having tentacula.	Cl. 5. Infects. Cl. 6. Worms.

CHARACTERS

^{*} Haller, Element. Physiol. i. 305. 307. informs us, that in all the cold blooded animals which he had dissected, he uniformly found the heart to have but one auricle and one ventricle; it is therefore surprising that Hasselquist, Itin. Palest. 293, should ascribe two of each to the crocodile, more especially as Borichius, Herm. Sap. Egypt. 276, had before declared its heart to have only one of each.—Lin.

CHARACTERS

OFTHE

CLASSES OF THE ANIMAL KINGDOM.

I. MAMMALIA.

The heart has two auricles and two ventricles; the blood is warm and red.

The lungs respire regularly alternate.

The jaws are horizontally incumbent on each other, and covered with lips; within which the teeth are, for the most part, included.

They procreate by an intrant penis; are viviparous and lactiferous.

Their organs of fense are, the tongue, nostrils, eyes, ears, and the cutaneous papillae.

They are covered with hair; which is thin on the animals of the warmer regions, and very fcanty on aquatic animals.

Their motive organs are four legs and feet; except those which are entirely confined to the water, whose hind legs are wanting. Most have tails.

II. BIRDS.

The heart has two auricles and two ventricles; the blood is warm and red.

The lungs respire regularly alternate.

The jaws are horizontally incumbent, naked, stretched out, and without teeth.

The penis is fubintrant; they have no fcrotum; and are oviparous, the eggs being covered with a calcareous shell.

Their organs of fense are, the tongue, nostrils, eyes, and ears, without external auricles.

They are covered with incumbent, imbricated feathers, lapping over each other like flates on a roof.

Their extremities are, two legs and feet, two wings, and a heart-shaped rump.

III. AMPHIBIA.

The heart has one auricle and one ventricle; their blood is cold and red.

The lungs respire according to the will of the animal.

The jaws are horizontally incumbent on each other.

The penis, in many species, is double; the eggs of most are membranous.

Their organs of fense are, the tongue, nostrils, eyes, and ears.

They are covered with a naked skin.

Their motive organs are various in different animals, and wanting in some.

IV. FISHES.

The heart has one auricle and one ventricle; the blood is cold and red.

They have compressed external gills instead of lungs.

The jaws are horizontally incumbent on each other.

The penis is wanting in most. The eggs have no white.

Their organs of fense are, the tongue, nostrils? eyes, and ears.

They are covered with imbricated fcales.

Their motive organs are fins fitted for fwimming.

V. INSECTS.

The heart has one auricle and one ventricle, propelling, cold, colourless, fanies.

They breathe by pores on the fides of their bodies.

Their jaws open laterally.

They copulate by means of an intrant penis.

Their organs of fense are, the tongue, eyes, antennae on the head, which is destitute of brain, and neither ears nor nostrils.

They are covered by a boney coat of mail.

Their motive organs are legs in all, and wings in a great many.

VI. WORMS.

The heart, for the most part, has one ventricle without any auricle, and propels a cold colourless fanies.

Their breathing pores are obscure and uncertain.

Their copulation and penis are various; fome are hermaphrodites, having both male and female parts in one individual.

Their organs of fense are tentacula in all, and eyes in most; the brain, ears, and nostrils, are wanting.

They are covered with calcareous shells, or have no covering except spines.

They have neither feet nor fins.

Thus

Thus Nature, in her Menagerie, preserves Animals in six different forms:

covered with hair, walk on the earth, MAMMALIA, fpeaking. fly in the air, BIRDS, covered with feathers, finging. AMPHIBIA, covered with skin, creep in warm places, hissing. covered with scales, fwim in the water, fmacking. FISHES, covered with armour, skip on dry ground, buzzing. INSECTS, WORMS, without skin, crawl in moist places, filent.

CLASS

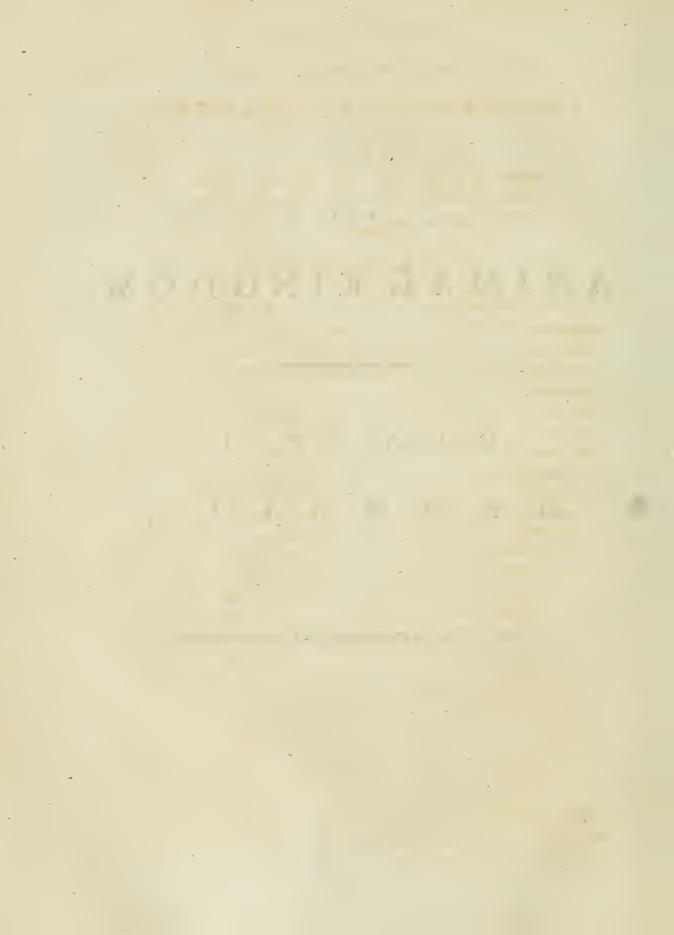
ANIMAL KINGDOM.

C L A S S I.

M A M M A L I A,

O R

ANIMALS WHICH GIVE SUCK TO THEIR YOUNG.



SYSTEMATIC CATALOGUE

OFTHE

M A M M A L I A*.

I. PRIMATES.

MAN.

Sapient Man. Wild Men.

Americans.

Europeans.

Afiatics.

Africans.

Monsters.

Dwarfish.

Gigantic.
Mutilated.

Beardless.

Sharp-headed.

Flat-headed.

APE.

* APES.

1. Chimpanzee.

2. Ourang-Outang.

3. Pongo.

4. Jocko.

5. Great Gibbon.

6. Leffer Gibbon.

i

HOMO.

1. Homo Sapiens.

«. H. Feri.

s. H. Americani.

v. H. Europaei.

ን. H. Asiatici.

2. H. Afri.

ζ. H. Monstrosi.

1. Alpinį.

2. Patagonici.

3. Monorchides.

4. Imberbes.

5. Macrocephali.

6. Plagiocephali.

ii

SIMIA.

Divided into

SIMIÆ.

1. Simia troglodytes.

2. Simia Satyrus.

β. S. Satyrus Pongo.

v. S. Satyrus Jocko.

3. Simia Lar.

β. S. Lar minor.

С

7

^{*} The figures before the English names express the running number in the class, those preceding the Latin names denote the species in each genus, and the Greek letters denote the varieties in each species.

- 7. Silvery Gibbon.
- 8. Pigmy.
- 9. Magot.
- 10. Hog faced Ape.

** BABOONS.

- 11. Maimon.
- 12. Little Baboon.
- 13. Great Baboon.
- 14. Mantegar.
- 15. Mandril.
- 16. Hoggish Baboon.
- 17. Wood Baboon.
- 18. Yellow Baboon.
- 19. Cinereous Baboon.
- 20. Blue-faced Baboon.
- 21. Brown Baboon.
- 22. Crested Baboon.

*** MONKEYS.

- 23. Dog. tailed Monkey.
- 24. Tartarin.
- 25. Ursine Tartarin.
- 26. Lowando.
- 27. White-bearded Lowando.
- 28. Wanderu.
- 29. White bearded black Wanderu.
- 30. Tie-tie Wanderu.
- 31. Purple-faced Wanderu.
- 32. Malbrouck.
- 33. Macaque.
- 34. Dog-headed Monkey.
- 35. Spotted Monkey.
- 36. Green Monkey.
- 3" Woustache.
- 38. Mangabey.

- v. S. Lar argentea.
- 4. Simia Sylvanus.
- 5. Simia inuus.
- 6. Simia Suilla.

PAPIONES.

- 1. Papio nemestrina.
- 2. Papio apedia.
- 3. Papio Sphinx.
- 4. Papio Mormon.
- 5. Papio Maimon.
- 6. Papio porcaria.
- 7. Papio fylvicola.
- 8. Papio variegata.
- 9. Papio cinerea.
- 10. Papio livea.
- 11. Papio platypygos.
- 12. Papio cristata.

CERCOPITHECI.

- 1. Cercopithecus cynoiurus.
- 2. Cercopithecus Hamadryas.
 - s. C. Hamadryas urfinus.
- 3. Cercopithecus veter.
 - β. C. veter albibarbatus.
- 4. Cercopithecus Silenus.
 - B. C. Silenus albibarbatus.
 - v. C. Silenus Tie-tie.
 - 3. C. Silenus purpuratus.
- 5. Cercopithecus Faunus.
- 6. Cercopithecus cynomolgus.
- 7. Cercopithecus cynocephalus.
- 8. Cercopithecus Diana.
- 9. Cercopithecus fabaeus.
- 10. Cercopithecus cephus.
- 11. Cercopithecus aethiops.

- 39. Collared Mangabey.
- 40. Egret.
- 41. Monea.
- 42. Nodding Monkey.
- 43. Bearded Nodding Monkey.
- 44. Rillow.
- 45. Bonneted Rillow.
- 46. Douc.
- 47. Monina.
 Patas.
- 48. Black-banded Patas.
- 49. White-banded-Patas.
- 50. Talapoin.
- 51. Black Talapoin.
- 52. Agile Monkey.
- 53. Negro Monkey.
- 54. Roloway.
- 55. Long-nofed Monkey.
- 56. Prude.
- 57. Yellowish Monkey.
- 58. Tawny Monkey.
- 59. Greenish Monkey.
- 60. Hircine Monkey.
- 61. King Monkey.
- 62. Bay Monkey.
- 63. Annulated Monkey.

**** SAPAJOUS.

- 64. Guariba.
- 65. Arabata.
- 66. Quato.
- 67. Exquima.
- 68. Sajou.
- 69. Grey Sajou.
- 70. Horned Sapajou.
- 71. Brown Sapajou.

- 8. C. aethiops torquatus.
- 12. Cercopithecus aygula.
 - 8. C. aygula Monea.
- 13. Cercopithecus nictitans.
 - s. C. nictitans barbatus.
- 14. Cercopithecus finicus.
 - s. C. finicus pileatus.
- 15. Cercopithecus nemaeus.
- 16. Cercopithecus Mona.
- 17. Cercopithecus ruber.
 - «. C. ruber nigrofasciatus.
 - β. C. ruber albofasciatus.
- 18. Cercopithecus Talapoin.
 - s. C. Talapoin niger.
- 19. Cercopithecus petauristus.
- 20. Cercopithecus maurus.
- 21. Cercopithecus Roloway.
- 22. Cercopithecus nasuus.
- 23. Cercopithecus capistratus.
- 24. Cercopithecus luteolus.
- 25. Cercopithecus fulvus.
- 26. Cercopithecus viridens.
- 27. Cercopithecus hircinus.
- 28. Cercopithecus regalis.
- 29. Cercopithecus badius.
- 30. Cercopithecus fuscus.

SAPAJI.

- 1. Sapajus Beelzebub.
- 2. Sapajus feniculus.
- 3. Sapajus panifcus.
- 4. Sapajus Exquima.
- 5. Sapajus trepidus.
 - s. S. trepidus fulvus.
- 6. Sapajus fatuellus.
- 7. Sapajus apella.

- 72. Sai.
- 73. White-throated Sai.
- 74. Saimiri.
- 75. Chefnut Saimiri.
- 76. Magu.
- 77. Variegated Sapajou.

***** SAGOINS.

- 78. Saki.
- 79. Sanglin.
- 80. Yellowish Sanglin.
- 81. Pinche.
- 82. Marikina.
- 83. Mico.
- 84. Tamarin.

MAUCAUCO.

- 85. Loris.
- 86. Tailless Maucauco.
- 87. Indri.
- 88. Potto.
- 89. Mongous.
- 90. Black-faced Mongous.
- 91. Black Mongous.
- 92. White handed Mongous.
- 93. Brown Mongous.
- 94. Grey Mongous. Vari.
- 95. Black Vari.
- 96. Brown Vari.
- 97. White Vari.
- 98. Pied Vari.
- 99. Ring-tailed Maucauco.
- 100. Murine Maucauco.
- 101. American Maucauco.
- 102. Curley Maucauco.

- 8. Sapajus Capucinus.
 - 8. S. Capucinus albulus.
- 9. Sapajus sciureus.
 - s. S. sciureus mortus.
- 10. Sapajus syrichtus.
- 11. Sapajus variegatus.

SAGOINI.

- 1. Sagoinus pithecia.
- 2. Sagoinus Jacchus.
 - β. S. Jacchus moschatus.
- 3. Sagoinus Oedipus.
- 4. Sagoinus rofalius.
- 5. Sagoinus argenteus.
- 6. Sagoinus Midas.

iii LEMUR.

- 1. Lemur tardigradus.
- 2. Lemur ecaudatus.
- 3. Lemur Indri.
- 4. Lemur Potto.
 - 5. Lemur Mongoz.
 - B. L. Mongoz maurus.
 - v. L. Mongoz negro.
 - . L. Mongoz albipes.
 - . L. Mongoz fuscus.
 - ζ. L. Mongoz cinereus.
 - 6. Lemur Macoco.
 - «. L. Macoco niger.
 - β. L. Macoco fuscus.
 - v. L. Macoco albus.
 - 8. L. Macoco variegatus.
 - 7. Lemur Catta.
 - 8. Lemur murinus.
- 9. Lemur bicolor.
- 10. Lemur laniger.

MAMMALI THE

103. Podje.

104. Prehensile Maucauco.

126. Greater Bull-dog Bat.

11. Lemur Podje.

12. Lemur prehenfilis.

18. Vespertilio Molossus.

«. V. Molossus major.

13. Lemur volans. 105. Coluga. VESPERTILIO. BAT. With four foreteeth in each jaw. 1. Vespertilio Vampyrus. Vampire. a. V. Vampyrus niger. 106. Rousset. ε. V. Vampyrus fubniger. 107. Rouget. v. V. Vampyrus helvus. 108. Lesser Vampire. 2. Vespertilio Spectrum. 109. Spectre. 3. Vespertilio perspicillatus. 110. Spear-nofed Bat. 4. Vespertilio Spasma. 111. Heart-nofed Bat. 112. Javelin Bat. 5. Vespertilio hastatus. 6. Vespertilio soricinus. 113. Leaf-nosed Bat. 7. Vespertilio leporinus. 114. Hare-lip Bat. 115. Chop-fallen Bat. 8. Vespertilio labialis. With four foreteeth above, and fix below. q. Vespertilio auritus. 116. Long-eared Bat. 117. Common Bat. 10. Vespertilio murinus. 118. Noctule. 11. Vespertilio Noctula. 119. Serotine. 12. Vespertilio Serotinus. 120. Pipistrelle. 13. Vespertilio Pipistrellus. 121. Barbastelle. 14. Vespertilio Barbastellus. 122. Bearded Bat. 15. Vespertilio hispidus. C. With four foreteeth above, and eight below. 16. Vespertilio pictus. 123. Striped Bat. 124. Reddish Striped Bat. β. V. pictus rubellus. With two foreteeth above, and fix below. 125. Senegal Bat. . 17. Vespertilio nigritia. With two foreteeth above, and four below. Bull-dog Bat.

127. Leffer Bull-dog Bat.

- β. V. Molossus minor.
- With two foreteeth above, and none below.
- 128. Cephalote.

- 19. Vespertilio Cephalotes.
- 129. Straw-coloured Cephalote.
- β. V. Cephalotes melinus.
- With no foreteeth above, and four below.
- 130. Purfe-winged Bat. Horse shoe Bat.
- 20. Vespertilio lepturus.
- 131. Larger Horse-shoe Bat.
- 21. Vespertilio ferrum-equinum.
- «. V. ferrum equinum major.
- 132. Lesser Horse-shoe Bat.
- β. V. ferrum-equinum minor.
- With no foreteeth in either jaw.
- 133. New-York Bat.

- 22. Vespertilio noveboracensis.
- The teeth uncertain. I.
- 134. Broad-winged Bat.
- 23. Vespertilio lascopterus.
- 135. Broad-tailed Bat.
- 24. Vespertilio lasiurus.

136. Claytons Bat.

25. Vespertilio Americanus.

BRUTA. II.

SLOTH.

BRADYPUS.

- 137. Ai.
- 138. Unau.
- 139. Five toed Sloth.

- 1. Bradypus tridactylus.
- 3. Bradypus pentadactylus.

ANT-EATER.

- 140. Two toed Ant eater.
- 141. Three-toed Ant-eater.
- 142. Great Ant.eater.
- 143. Short-nosed Great Ant-eater.
- 144. Tamandua.
- 145. Five toed Ant eater.
- 146. Little Tamanoir.
- 147. Cape Ant eater.

- 2. Bradypus didactylus.

MYRMEGOPHAGA.

- 1. Myrmecophaga didactyla.
- 2. Myrmecophaga tridactyla.
- 3. Myrmecophaga jubata. β. M. jubata sima.
- 4. Myrmecophaga tetradactyla.
- 5. Myrmecophaga pentadactyla. β. M. pentadactyla minor.
- 6. Myrmecophaga capenfis.

- MANIS.

148. Pangolin.

vii MANIS.

1. Manis pentadactyla.

149. Phatagin.

ARMADILLO.

- 150. Apara.
- 151. Four-banded Armadillo.
- 152. Encouberto.
- 153. Seven banded Armadillo.
- 154. Eight-banded Armadillo.
- 155. Nine-banded Armadillo.
- 156. Leverian Armadillo.
- 157. Kabassou.
- 158 Largest Armadillo.
- 159. Cirquinçon.
- 160. Long-tailed Armadillo.

RHINOCEROS.

- 161. One-horned Rhinoceros.
- 162. Two-horned Rhinoceros.

SUKOTYRO.

163. Javan Sukotyro.

ELEPHANT.

- 164. Great Elephant.
- 165. American Elephant.

WALRUS.

- 166. Morfe.
- 167- Dugon. Fish-tailed Walrus.
- 168. Lamentin.
- 169. Manati.
- 170. Sea-ape.

2. Manis tetradactyla.

viii DASYPUS.

- 1. Dasypus tricinctus.
- 2. Dasypus quadricinctus.
- 3. Dafypus fexcinctus.
- 4. Dasypus septemcinctus.
- 5. Dasypus octocinctus.
- 6. Dasypus novemcinctus.
 - β. D. novemcinctus leverianus.
- 7. Dafypus duodecemcinctus.
- 8. Dafypus maximus.
- 9. Dasypus novemdecemcinctus.
- 10. Dafypus longicaudatus.

ix RHINOCEROS.

- 1. Rhinoceros unicornis.
- 2. Rhinoceros bicornis.

x SUKOTYRO.

1. Sukotyro indicus.

xi ELEPHAS.

- 1. Elephas maximus.
- 2. Elephas americanus.

xii TRICHECHUS.

- 1. Trichechus Rosmarus.
- 2. Trichechus Dugon.
- 3. Trichechus Manatus.
 - a. T. Manatus australis.
 - β. T. Manatus borealis.
 - 7. T. Manatus Siren.

III. FERÆ.

SEAL.

- 171. Urfine Seal.
- 172. Bottle-nosed Seal.
- 173. Maned Seal.
- 174. Common Seal.
- 175. Bothnic Common Seal.
- 176. Siberian Common Seal.
- 177. Caspian Common Seal.
- 178. Hooded Seal.
- 179. Swartside.
- 180. Bedlemer.
- 181. Neitsek.
- 182. Newfoundland Seal.
- 183. Klapmus.
- 184. Great Seal.
- 185. Little Seal.
- 186. Chilese Seal.
- 187. Long-necked Seal.
- 188. Falkland Seal.
- 18g. Parfons Seal.
- 190. Harneffed Seal.
- 191. Wooly Seal.
- 192. Speckled Seal.
- 193. Spotted Seal.
- 194. Black Seal.

DOG.

Faithful Dog.

- 195. Shepherds Dog.
- 196. Pomeranian Dog.
- 197. Siberian Dog.
- 198. Iceland Dog.
- 199. Great Water Dog.

xiii

PHOCA.

- 1. Phoca urfina.
- 2. Phoca leonina.
- 3. Phoca jubata.
- 4. Phoca vitulina.
 - β. P. vitulina botnica.
 - y. P. vitulina fibirica.
 - J. P. vitulina caspica.
- 5. Phoca monachus.
- 6. Phoca groenlandica.
 - β. P. groenlandica niger.
- 7. Phoca hispida.
 - β. P. hispida quadrata.
- 8. Phoca cristata.
- 9. Phoca barbata.
- 10. Phoca pufilla.
- 11. Phoca chilensis.
- 12. Phoca mutica.
- 13. Phoca australis.
- 14. Phoca testudo.
- 15. Phoca fasciata.
- 16. Phoca laniger.
- 17. Phoca punctata.
- 18. Phoca maculata.
- 19. Phoca nigra.

xiv

CANIS.

- 1. Canis familiaris.
 - . Canis domesticus.
 - β. Canis pomeranus.
 - v. Canis fibericus.
 - 3. Canis islandicus.
 - . Canis aquaticus major.

200. Lesser Water Dog.

201. Pyrame.

*. King Charles's Spaniel.

**. French Pyrame.

202. Spaniel.

203. Shock Dog.

204. Lion Dog.

205. Little Danish Dog.

206. Bastard Pug Dog.

207. Pug Dog.

a. Artois Dog.

b. Alicant Dog.

208. Bull Dog.

209. Mastiff.

210. German Hound.

211. Hound.

212. Blood Hound.

213.

214. Pointer.

215. Barbet.

216. Grey hound.

217. Irish Grey-hound.

218. Turkish Grey hound.

219. Common Grey-hound.

220. Rough Grey hound.

221. Italian Grey hound.

222. Oriental Grey-hound.

223. Naked Dog.

224. Lurcher.

225. Rough Lurcher.

226. Boar Lurcher.
Turnspit.

227. Straight-legged Turnspit.

228. Crook-legged Turnspit.

229. Shaggy Turnspit.

ζ. Canis aquaticus minor.

7. Canis brevipilis.

*. C. brevip. regalis.

**. C. brevip. gallicus.

9. Canis extrarius.

.. Canis melitaeus.

z. Canis leoninus.

A. Canis variegatus.

μ. Canis hybridus.

». Canis fricator.

a. C. fricator gallicus.

b. C. fricator hispanicus.

g. Canis Molossus.

. Canis anglicus.

m. Canis fagax.

e. Canis gallicus.

σ. Canis fcoticus.

7. Canis venaticus.

v. Canis avicularis.

φ. Canis aquatilis.

x. Canis cursorius.

4. C. cursorius hibernicus.

w. C. cursorius turcicus.

az. Canis Grajus.

ββ. C. Grajus hirfutus.

77. C. Grajus italicus.

**. C. Grajus orientalis.

33. Canis aegyptius.

canis Laniarius.

ζζ. C. Laniarius aprinus.

nn. C. Laniarius suillus.

99. Canis Vertegus.

a. C. Vertegus rectus.

b. C. Vertegus valgus.

c. C. Vertegu, villosus.

" Canis americanus.

- 230. Fat Alco.
- 231. Techichi.
- 232. New-Holland Dog.
- 233. Wolf.
- 234. Yellow Wolf.
- 235. White Wolf.
- 236. Black Wolf.
- 237. Striped Wolf.
- 238. Mexican Wolf.
- 239. White Mexican Wolf.
- 240. Surinam Wolf.
- 241. Striped Hyaena.
- 242. Abyssinian Hyaena.
- 243. Spotted Hyaena.
- 244. Jackal.
- 245. Cape Jackal.
- 246. Barbary Jackal.
- 247. Black Fox.
- 248. Common Fox. Brant Fox.
- 249. American Brant Fox.
- 250. Coal Fox.
- 251. Corfac Fox.
- 252. Karagan.
- 253. Silvery Fox.
- 254. Grey Fox.
 Arctic Fox.
- 255. White Arctic Fox.
- 256. Bluish Arctic Fox.
- 257. Cross Fox.
- 258. Chilese Fox.
- 259: Antartic Fox.
- 260. Zerda.

- a. C. americanus obefus.
- b. C. americanus plancus.
- 2. Canis antarticus.
- 3. Canis Lupus.
 - «. C. Lupus flavus.
 - β. C. Lupus albus.
 - 3. C. Lupus niger.
 - 6. C. Lupus fasciatus.
- 4. Can. Lupus mexicanus.
 - β. C. Lupus mexic. albus.
- 5. Can. Lupus Thous.
- 6. Canis Hyaena.
- 7. C. Hyaena aethiopicus.
- 8. C. Hyaena Crocuta.
- 9. Canis aureus.
- 10. Canis Mesomelas.
- 11. Canis Adive.
- 12. C. Vulpes Lycaon.
- 13. C. Vulpes vulgaris.
- 14. C. Vulpes Alopex.
 - «. C. Vulp. Alopex americanus.
 - β. C. Vulp. Alopex europaeus.
- 15. C. Vulpes Corfac.
- 16. C. Vulpes Karagan.
- 17. C. Vulpes cinereo-argenteus.
- 18. C. Vulpes virginianus.
- 19. C. Vulpes Lagopus.
 - «. C. Vulp. Lagop. albus.
 - β. C. Vulp. Lagop. cerulescens.
- 20. C. Vulpes cruciger.
- 21. C. Vulpes chilensis.
- 22. C. Vulpes australis,
- 23. Canis Cerdo.

CAT.

xv

FELIS.

* With long tails, and plain ears.

- 261. Lion.
- 262. Tiger.
- 263. Panther.
- 264. Ounce:
- 265. Leopard.
- 266. Leffer Leopard.
- 267. Jaguar.
- 268. Ocelot.
- 269. Guepard.
- 270. Jaguarete:
- 271. Puma.
- 272. Couguar.
- 273. Margay.
- 274. Mexican Tiger cat.
- 275. Bengal Tiger-cat.
- 276. Cape Tiger-cat.
- 277. Manul.
- 278. Serval.
 - Common Cat.
- 279. Wild Cat.
- 280. Domestic Cat.
- 281. Angora Cat.
- 282. Tortoise shell Cat.
- 283. Blue Cat.
- 284. Red Cat.
- 285. Chinese Cat.
- 286. Long headed Cat.
- 287. Saca.

- 1. Felis Leo.
- 2. Felis Tigris.
- 3. Felis Pardus.
- 4. Felis Uncia.
- 5. Felis Leopardus.
- 6. Felis Leopardalis.
- 7. Felis Onca.
- 8. Felis Pardalis.
- 9. Felis jubata.
- 10. Felis discolor.
- 11. Felis concolor.
- 12. Felis Couguar.
- 13. Felis tigrina.
- 14. Felis mexicana.
- 15. Felis bengalensis.
- 16. Felis capensis.
- 17. Felis Manul.
- 18. Felis Serval.
- 19. Felis Catus.
 - «. F. Catus ferus.
 - B. F. Catus domesticus.
 - 7. F. Catus angorensis.
 - F. Catus hispanicus.
 - F. Catus caeruleus.
 - ζ. F. Catus ruber.
 - n. F. Catus sinensis.
 - 9. F. Catus aureus.
 - . F. Catus madagascarensis.

** LYNXES.

LYNCES.

With short tails, and pencilled ears.

- 288. Caspian Lynx.
- 289. Mountain Lynx.

- 1. Lynx Chaus.
- 2. Lynx montana.

- 290. Persian Lynx.
- 291. Bengal Lynx.
- 292. Booted Lynx.
- 293. Barbary Lynx.
- 294. Common Lynx.
- 295. White Lynx.
- 296. Yellow Lynx.
- 297. Thibet Lynx.
- 298. Canadian Lynx.
- 299. American Lynx.

FITCHET.

- 300. Egyptian Ichneumon.
- 301. Indian Ichneumon.
- 302. Cafrarian Ichneumon.
- 303. African Ichneumon.
- 304. Zenik.
- 305. Surikate.
- 306. Coati.
- 307. Coati-mondi.
- 308. Coasse.
- 309. Quasje.
- 310. Striped Skunk.
- 311. White Skunk.
- 312. Conepatl.
- 313. Zorilla.
- 314. Mapurito.
- 315. Grifon.
- 316. Ceylon Fitchet.
- 317. Cape Fitchet.
- 318. Civet.
- 319. Zibet.
- 320. Hermaphrodite Fitchet.
- 321. Spanish Genet.
- 322. St Germains Genet.
- 223. Leverian Genet.

- 3. Lynx Caracal.
- 4. Lynx bengalensis.
- 5. Lynx nubiensis.
- 6. Lynx lybiensis.
- 7. Lynx vulgaris.
 - β. Lynx vulg. alba.
 - 7. Lynx vulg. melina.
 - 3. Lynx vulg. maculata.
- 8. Lynx canadensis.
- 9. Lynx rufa.

xvi VIVERRA

- 1. Viverra Ichneumon.
- 2. Viverra Mungo.
- 3. Viverra cafra.
- 4. Viverra Nems.
- 5. Viverra Zenik.
- 6. Viverra tetradactyla.
- 7. Viverra nasua.
- 8. Viverra narica.
- 9. Viverra vulpecula.
- 10. Viverra Quasje.
- 11. Viverra Putorius.
- 12. Viverra Mephitis.
- 13. Viverra Conepatl.
- 14. Viverra Zorilla.
- 15. Viverra Mapurito.
- 10. Viverra vittata.
- 17. Viverra zeylanica.
- 18. Viverra capenfis.
- 19. Viverra Civetta.
- 20. Viverra Zibetha.
- 21. Viverra hermaphrodita.
- 22. Viverra Genetta.
- 23. Viverra gallica.
- 24. Viverra annulata.

THE MAMMALIA.

- 324. Fossane.
- 325. Bizaam.
- 326. Poto.
- 327. Kinkajou.
- 328. Ratel.
- 329. Striped Fitchet.
- 330. Malayan Fitchet.
- 331. Spotted Fitchet.

WEASEL.

XVII

MUSTELA.

Divided into

* OTTERS.

- 332. Sea Otter.
- 333. Brasilian Otter.
- 334. Saricovienne.
- 335. Chilese Otter.
- 336. Common Otter.
- 337. Canadian Otter.
- 338. Lesser Otter.
- 339. Cayenne Otter.
- 340. Minx.

** WEASELS.

- 341. Tayra.
- 342. Galera.
- 343. Vansire.
- 344. Pekan.
- 345. Vifon.
- 346. Common Martin.
- 347. Pine Martin.
- 348. Guiana Martin.
- 349. Cayenne Martin.
- 350. Sable.
- 351. White Sable.
- 352. American Sable.
- 353. Black Sable.

- 28. Viverra prehenfilis.
- 29. Viverra mellivora.

27. Viverra caudivolvula.

30. Viverra fafciata.

25. Viverra Fossa.

26. Viverra tigrina.

- 31. Viverra malaccensis.
- 32. Viverra maculata.

LUTRA

- I. Lutra Lutris.
- 2. Lutra brasiliensis.
- 3. Lutra paraguenfis.
- 4. Lutra chilensis.
- 5. Lutra piscatoria.
- 6. Lutra canadensis.
- 7. Lutra fulva.
- 8. Lutra guianensis.
- 9. Lutra Minx.

MUSTELÆ.

- 1. Mustela barbara.
- 2. Mustela Galera.
- 3. Mustela afra.
- 4. Mustela canadensis.
- 5. Mustela Vison.
- 6. Mustela Foina.
- 7. Mustela Martes.
- 8. Mustela guianensis.
- 9. Mustela laniger.
- 10. Mustela Zibellina.
 - β. M. Zibellina alba.
- 11. M. Zibellina americana.
- 12. M. Zibellina nigra.

- 354. Polecat.
- 355. Ferret.
- 356. Sarmatian Weafel.
- 357. Siberian Weafel. Ermine.
- 358. Stoat.
- 359. White Ermine.
- 360. Common Weafel.
- 361. Snow Weafel.
- 362. Yellow Weafel:
- 363. Chilese Weasel.

BEAR.

Common Bear.

- 364. Black Bear.
- 365. Brown Bear.
- 366. Grey Bear.
- 367. Variegated Bears
- 368. White Bear.
- 369. Polar Bear.
- 370. American Bear.
- 371. Sand Bear.
- 372. Common Badger.
- 373. White Badger.
- 374. Spotted Badger.
- 375. American Badger.
- 376. Indian Badger.
- 377. Racoon.
- 378. White Racoon,
- 379. Wolverene.
- 380. Glutton.
- 381. White Glutton..

OPOSSUM.

- 382. Amboina Opossum.
- 383. Brafilian Opossum.

- 13. Mustela Putoria.
- 14. Mustela Furo.
- 15. Mustela sarmatica.
- 16. Mustela sibirica.
- 17. Mustela Erminea.
 - a. M. Erminea aestiva.
 - β. M. Erminea hyberna.
- 18. Mustela vulgaris.
 - β. M. vulg. nivalis.
- 19. Mustela melina:
- 20. Mustela Quiqui.

xviii

URSUS

- 1. Ursus Arctos.
 - «. U. Arctos niger.
 - s. U. Arctos fuscus.
 - v. U. Arctos grifeus.
 - 3. U. Arctos variegatus..
 - . U. Arctos albus.
- 2. Ursus maritimus.
- 3. Ursus americanus.
- 4. Ursus tetradactylus...
- 5. Urfus Meles:
 - β. U. Meles alba.
 - v. U. Meles maculata.
- 6. Ursus labradorius.
- 7. Urfus indicus.
- 8. Urfus Lotor.
 - β.. U. Lotor melinus...
- 9: Urfus luscus.
- Io. Urfus Gulo.
 - β. U. Gulo albus...

xix

DIDELPHIS.

- 1. Didelphis marsupialis.
- 2. Didelphis Philander.

- 384. Sarigue.
- 385. Molucca Opossum.
- 386. Virginian Opossum.
- 387. Cayopollin.
- 388. Murine Opossum.
- 389. Guiana Opoffum.
- 390. Surinam Opossum.
- 391. Cayenne Opossum.
- 392. New-Holland Opossum.
- 393. Short tailed Opossum.
- 394. Oriental Opossum.
- 395. Javan Opossum.
- 396. Kanguru.
- 397. Phillips Opossum.
- 398. Vulpine Opossum.
- 399. Spotted Opossum.
- 400. Flying Opossum.

MOLE.

European Mole.

- 401. Black Mole.
- 402. Variegated Mole.
- 403. White Mole.
- 404. Grey Mole.
- 405. American Mole.
- 406. Crested Mole.
- 407. Long-tailed Mole.
- 408. Brown Mole.
- 409. Red Mole.
- 410. Gilded Mole.

SHREW.

- 411. Minute Shrew.
- 412. Musky Shrew.
- 413. Water Shrew.
- 414. Javan Shrew.

- 3. Didelphis Opossum.
- 4. Didelphis molucca.
- 5. Didelphis virginiana.
- 6. Didelphis Cayopollin.
- 7. Didelphis murina.
- 8. Didelphis guianenfis.
- 9. Didelphis dorsigera.
- 10. Didelphis cancrivora.
- 11. Didelphis caudivolvula.
- 12. Didelphis brachyura.
- 13. Didelphis orientalis.
- 14. Didelphis Brunii.
- 15. Didelphis gigantea.
- 16. Didelphis tridactyla.
- 17. Didelphis vulpecula.
- 18. Didelphis maculata.
- 19. Didelphis volans.

XX TALPA.

- 1. Talpa europaea.
 - a. Talpa europ. nigra.
 - s. Talpa europ. variegata.
 - v. Talpa europ. alba.
 - 3. Talpa europ. cinerea.
- 2. Talpa flava.
- 3. Talpa cristata.
- 4. Talpa longicaudata.
- 5. Talpa fusca.
- 6. Talpa tubra.
- 7. Talpa aurea.

xxi SOREX.

- 1. Sorex minutus.
- 2. Sorex moschatus.
- 3. Sorex fodiens.
- 4. Sorex murinus.

- 415. Fetid Shrew.
- 416. Labradore Shrew.
- 417. Grey Labradore Shrew.
- 418. Surinam Shrew.
- 419. Timid Shrew.
- 420. Brasilian Shrew.
- 421. Pigmy Shrew.
- 422. Blue Shrew.
- 423. Mexican Shrew.
- 424. White-footed Shrew.
- 425. Square tailed Shrew.
- 426. Carinated Shrew.
- 427. Uniform Shrew.

URCHIN.

- 428. Common Urchin.
- 429. Guiana Urchin.
- 430. Malacca Urchin.
- 431. Siberian Urchin.
- 432. Tendrac.
- 433. Tanrec.

- 5. Sorex Araneus.
- 6. Sorex arcticus.
 - B. Sorex arct. cinereus.
- 7. Sorex furinamenfis.
- 8. Sorex pufillus.
- 9. Sorex brasiliensis.
- 10. Sorex exilis.
- 11. Sorex cerulaeus.
- 12. Sorex mexicanus.
- 13. Sorex albipes.
 - 14. Sorex quadricaudatus...
 - 15. Sorex liricaudatus.
 - 16. Sorex unicolor.

xxii ERINACEUS.

- 1. Erinaceus europaeus.
- 2. Erinaceus inauris.
- 3. Erinaceus malaccenfis.
- 4. Erinaceus auritus.
- 5. Erinaceus fetofus.
- 6. Erinaceus ecaudatus.

IV. GLIRES.

PORCUPINE.

Crested Porcupine.

- 434. Italian Porcupine.
- 435. Indian Porcupine.
 Brasilian Porcupine.
- 436. Larger Brasilian Porcupine.
- 437. Lesser Brasilian Porcupine.
- 438. Mexican Porcupine.
- 439. Canadian Porcupine.
- 440. White Canadian Porcupine.
- 441. Long tailed Porcupine.
- 442. Brawny Porcupine.

XXIII

HYSTRIX.

- 1. Hystrix cristata.
- «. H. cristata europaea..
- β. H. cristata indica.
- 2. Hystrix prehensilis.
 - a. H. prehensilis major..
 - ε. H. prehenfilis minor..
- 3. Hystrix mexicana.
- 4. Hystrix dorsata.
 - β. H. dorsata alba.
- 5. Hystrix macroura.
 - β. Hystrix torofa.

CAVY.	xxiv CAVIA.				
443. Paca.	1. Cavia Paca.				
444. White Paca.	β. C. Paca alba.				
445. Akouchy.	2. Cavia Acuschy.				
Agouti.	3. Cavia Agouti.				
446. Leffer Agouti.	«. C. Agouti cunicularis.				
447. Larger Agouti.	β. C. Agouti leporina.				
448. American Agouti.	% C. Agouti americana.				
449. Aperea.	4. Cavia Aperea.				
450. Black Aperea.	β. C. Aperea nigra.				
451. Cobaya.	5. Cavia Cobaya.				
452. Patagonian Cavy.	6. Cavia Magellanica.				
453. Capibara.	7. Cavia Capybara.				
BEAVER.	xxv CASTOR.				
454. Common Beaver.	1. Castor Fiber.				
455. White Beaver.	a. C. Fiber albus.				
456. Terrier Beaver.	β. C. Fiber folitarius.				
457. Chilese Beaver.	2. Castor huidobrius.				
MURINE QUADRUPEDS. xxvi M U S.					
	ivided into				
* BEAVER-RATS.	MYOCASTORES.				
458. Webbed Beaver rat.	1. Myocastor Coypus.				
459. Musquash.	2. Myocastor zibethicus.				
** RATS AND MICE.	M U R E S.				
Subdivided into					
	aving naked round tails.				
Piloris.	1. Mus Pilorides.				
460. White Piloris.	a. M. Pilorides albidus.				
461. Black Piloris.	8. M. Pilorides fulvus.				
462. Caraco.	2. Mus Caraco.				
463. American Rat.	3. Mus americanus.				
464. Brown Rat.	4. Mus decumanus.				
465. Black Rat.	5. Mus Rattus.				
466. Small Rat.	s. M. Rattus minor.				

467. Common Mouse.

468. Varieties of the Com. Mouse.

6. Mus Mufculus.

β. M. Musculi varietates.

- 469. Field Mouse.
- 470. White Field Mouse.
- 471. Harvest Mouse.
- 472. Rustic Mouse.
- 473. American Rustic Mouse.
- 474. Minute Mouse.
- 475. Yellow Minute Mouse.
- 476. Shrew-like Moufe.
- 477. Wandering Moufe.
- 478. Beech Mouse.
- 479. Dwarf Mouse.
- 480. Striped Moufe.
- 481 Cherofo:
- 482. Barbary Moufe.
- 483. Mexican Moufe.

- 7. Mus sylvaticus.
 - B. M. fylvaticus albus.
- 8., Mus mefforius.
- 9. Mus agrarius.
 - B. M. agrarius americanus.
- 10. Mus minutus.
 - β. M. minutus flavus.
- 11. Mus foricinus.
- 12. Mus vagus.
- 13. Mus betulinus.
- 14. Mus pumilio.
- 15. Mus striatus.
 - β. Mus moschatus.
- 16. Mus barbarus.
- 17. Mus mexicanus.

++ Cunicularii.-Having hairy round tails.

- 484. Virginian Mouse.
- 485. Rock Moufe.
- 486. Blue Moufe.
- 487. Water Rat.
- 488. Meadow Water Rat.
- 489. Marsh Water Rat.
- 490. Black Water Rat.
- 491. Spotted Water Rat.
- 492. Garlic Mouse.
- 493. Red Moufe.
- 494. Lesser Red Mouse.
- 495. Gregarious Mouse.
- 496. Economic Mouse.
- 497. Laland Moufe.
- 498. Wooly Moufe.
- 499. Meadow Moufe.
- 500. Blackish Meadow Mouse.
- 501. Social Mouse.
- 502. Rambling Moufe.
- 503. Collared Mouse.
- 504. Lemming.

- 18. Mus virginianus.
- 19. Mus faxatilis.
- 20. Mus cyanus.
- 21. Mus amphibius.
 - β. M. amphib. terrestris.
 - y. M. amphib. paludofus.
 - 3. M. amphib. niger.
 - . M. amphib. maculatus.
- 22. Mus aliarius.
- 23. Mus rutilus.
 - ρ. M. rutilus minor.
- 24. Mus gregalis.
- 25. Mus oeconomus.
 - β. Mus glareolus.
- 26. Mus laniger.
- 27. Mus arvalis.
 - β. M. arvalis nigricans.
- 28. Mus focialis.
- 29. Mus lagurus.
- 30. Mus torquatus.
- 31. Mus Lemmus.

505. Siberian Lemming.

506. Labradore Mouse.

507. Lena Mouse.

508. Kamtschatka Mouse.

*** HAMSTERS.

509. Siberian Hamster.

510. German Hamster.

511. Black German Hamster.

512. Sand Hamster.

513. Rice Hamster.

514. Songar Hamster.

515. Baraba Hamster.

**** MOLE-RATS.

516. Russian Mole-rat.

517. Black Ruffian Mole-rat.

518. Cape Mole-rat.

519. African Mole rat.

520. Daurian Mole-rat.

521. Blind Mole rat.

MARMOT.

522. Common Marmot.

523. Monax.

524. Bobak.

525. Canadian Marmot.

526. Hoary Marmot.

527. Souflik.

528. Zisel.

529. Zemni.

530. Gundi.

531. Hudson's Marmot.

532. Chilese Marmot.

SQUIRREL.

xxviii

SCIURUS.

Divided into,

* CLIMBING SQUIRRELS.

SCIURI SCANDENTES:

Which have no flying membranes.

Common Squirrel.

1. Sciurus vulgaris.

3. M. Lemmus fibiricus.

32. Mus hudsonius.

33. Mus lenae.

34. Mus Tschelag.

CRICETI.

1. Cricetus Acredula.

2. Cricetus germanicus.

8. Cricetus german. niger.

3. Cricetus arenarius.

4. Cricetus phaeus.

5. Cricetus Songarus.

6. Cricetus Furunculus.

MYOTALP Æ.

1. Myotalpa talpina.

s. Myotalpa talpina nigra.

2. Myotalpa capensis.

3. Myotalpa maritinia.

4. Myotalpa Aspalax.

5. Myotalpa Typhla.

xxvii ARCTOMYS.

1. Arctomys Marmota.

2. Arctomys Monax.

3. Arctomys Bobac.

4. Arctomys Empetra.

5. Arctomys pruinosa.

6. Arctomys Sussica.

7. Arctomys Citillus.

8. Arctomys Zemni.

9. Arctomys Gundi.

10. Arctomys hudsonia.

11. Arctomys maulina.

533. Red Common Squirrel.

534. White tailed Common Squirrel.

535. Varying Common Squirrel.

536. Black Common Squirrel.

537. White Common Squirrel.

538. Silvery Common Squirrel.

539. White legged Squirrel.

540. Black Squirrel.

541. White nofed Black Squirrel.

542. Vulpine Squirrel.

543. White Vulpine Squirrel.

544. Grey Squirrel.

545. Labradore Squirrel.

546. Carolina Squirrel.

547. Virginian Squirrel.

548. Perfian Squirrel.

549. Georgian Squirrel.

550. Javan Squirrel.

551. Ruddy Squirrel.

552. Ceylon Squirrel.

553. Malabar Squirrel.

554. Abyssinian Squirrel.

555. Bombay Squirrel.

556. Fair Squirrel.

557. Palm Squirrel.

558. Barbary Squirrel.

559. Plantain Squirrel. Ground Squirrel.

560. Asiatic Ground Squirrel.

561. American Ground Squirrel.

562. Brasilian Squirrel.

563. Striped Brafilian Squirrel.

564. Carnatic Squirrel.

565. Varied Squirrel.

566. Smaller Varied Squirrel.

567. Chilese Squirrel.

568. Mexican Squirrel.

«. S. vulgaris rufus.

8. S. vulgaris leucourus.

7. S. vulgaris varius.

' 8. S. vulgaris niger.

. S. vulgaris albus.

ζ. S. vulgaris argenteus.

2. Sciurus albipes.

3. Sciurus niger.

β. S. niger albirostro.

4. Sciurus vulpinus.

ε. S. vulpinus albus.

5. Sciurus cinereus.

6. Sciurus hudlonius.

7. Sciurus carolinensis.

8. Sciurus virginianus.

9. Sciurus persicus.

10. Sciurus anomalus.

11. Sciurus bicolor.

12. Sciurus erythraeus.

13. Sciurus macrourus.

14. Sciurus maximus.

15. Sciurus abyssinicus.

16. Sciurus indicus.

17. Sciurus flavus.

18. Sciurus palmarum.

19. Sciurus getulus.

20. Sciurus Badjing.

21. Sciurus striatus.

«. S. striatus asiaticus.

β. S. striatus americanus.

22. Sciurus aestuans.

β. S. aestuans fasciatus.

23. Sciurus dschinschicus.

24. Sciurus variegatus.

β. S. variegatus minor.

25. Sciurus Degus.

26. Sciurus mexicanus.

OF THE MAMMALIA.

- 569. American Squirrel.
- 570. Guiana Squirrel.
- 571. Cayenne Squirrel.
- 572. Madagascar Squirrel.
- 573. Cape Squirrel.

** FLYING.SQUIRRELS.

- 27. Sciurus scrotalis.
- 28. Sciurus bancrofti.
- 29. Sciurus guajanensis.
- 30. Sciurus madagascarensis.
- 31. Sciurus capensis.

PETAURI.

Have an extended flying membrane.

- 574. American Flying-Squirrel.
- 575. Virginian Flying Squirrel.
- 576. Labradore Flying-Squirrel.
- 577. European Flying-Squirrel.
- 578. Java Flying Squirrel. Indian Flying Squirrel.
- 579. Red Indian Flying Squirrel.
- 580. Black Indian Flying-Squirrel.
- 581. Southern Flying Squirrel.
- 582. Philips Flying-Squirrel.

DORMOUSE.

- 583. Hoary Dormouse.
- 584. Wood Dormouse.
- 585. Garden Dormouse.
- 586. Common Dormouse.

JERBOA.

- 587. Common Jerboa.
- 588. Arabian Jerboa.
 - A. Egyptian Jerboa.
 - B. Siberian Jerboa.
- 589. Great Siberian Jerboa.
- 590. Middle Siberian Jerboa.
- 591. Smaller Siberian Jerboa.
- 592. Pigmy Siberian Jerboa.
- 593. Cape Jerboa.
- 594 Caspian Jerboa.
- 595. Marsh Jerboa.
- 596. Labradore Jerboa.
- 597. Circassian Jerboa.

- 1. Petaurus volucella.
- 2. Petaurus virginianus.
- 3. Petaurus hudsonius.
- 4. Petaurus volans.
- 5. Petaurus fagitta.
- 6. Petaurus petaurista.
 - «. P. petaurista castaneus.
 - β. P. petaurista niger.
- 7. Petaurus australis.
- 8. Petaurus norfolcenfis.

xxix MYOXUS.

- 1. Myoxus Glis.
- 2. Myoxus Dryas.
- 3. Myoxus Nitela.
- 4. Myoxus Muscardinus.

XXX

DIPUS.

- 1. Dipus jaculus.
- 2. Dipus fagitta.
- A. Dipus aegyptius.
- B. Dipus fibiricus.
 - a. D. sibiricus major.
 - b. D. fibiricus medius.
 - c. D. fibiricus minor.
 - d. D. fibiricus pumilio.
- 3. Dipus cafer.
- 4. Dipus meridianus.
- 5. Dipus tamaricinus.
- 6. Dipus labradorius.
- 7. Dipus circafficus.

CATALOGUE

HARE.

xxxi

LEPUS.

* With short tails.

- 598. Peruvian Hare.
- 599. Common Hare.
- 600. Horned Common Hare.
- 601. Yellow Common Hare.
- 602. Varying Hare.
- 603. Spurious Varying Hare.
- 604. Black Hare.
- 605. American Hare.
- 606. Baikal Hare.
- 607. Chilese Hare.
- 608. Cape Hare.
- 609. Wild Rabbit.
- 610. Black Tame Rabbit.
- 611. White Tame Rabbit.
- 612. Pied Tame Rabbit.
- 613. Silvery Tame Rabbit.
- 614. Hooded Rabbit.
- 615. Angora Rabbit.

616. Brafilian Hare.

617. Calling Hare.

618. Mountain Hare.

619. Ogotona Hare.

- 1. Lepus Viscaccia.
- 2. Lepus timidus.
 - β. L. timidus cornutus.
 - y. L. timidus melinus.
- 3. Lepus variabilis.
 - β. L. variabilis hybridus.
- 4. Lepus niger.
- 5. Lepus americanus.
- 6. Lepus Tolai.
- 7. Lepus minimus.
- 8. Lepus capenfis.
- 9. Lepus Cuniculus.
 - a. L Cuniculus ferus.
 - β. L. Cuniculus domesticus niger.
 - 7. L. Cuniculus domesticus albus.
 - 3. L. Cunic. domest. variegatus.
 - 4. L. Cunic. domest. argenteus.
- 10. Lepus faccatus.
- 11. Lepus sericeus.

** Having no tails.

- 12. Lepus brasiliensis.
- 13. Lepus pusillus.
- 14. Lepus alpinus.
- 15. Lepus Ogotona.

ASHKOKO.

- 620. Cape Ashkoko.
- 621. Syrian Ashkoko.

xxxii

HYRAX.

- 1. Hyrax capenfis.
- 2. Hyrax fyriacus.

V. PECORA.

CAMEL.

- 622. Arabian Camel.
- 623. Swift Camel.
- 624. Bactrian Camel.
- 625. Mixed Camel.
- 626. Glama.

xxxiii

CAMELUS.

- 1. Camelus Dromedarius.
 - s. Camelus dromos.
- 2. Camelus bactrianus.
 - A. Camelus hybridus.
- 3. Camelus Glama.

0

OF THE MAMMALIA.

4. Camelus Huanacus. 627. Guanaco. 5. Camelus arcucanus. 628. Chillihueque. 6. Camelus Vicugna. 629. Vicugna. 630. Pacos. 7. Camelus Paco. xxxiv MOSCHUS. MUSK. 1. Moschus moschiferus. 631. Thibet Musk. 2. Moschus indicus. 622. Indian Musk. 3. Moschus pygmaeus. 633. Pigmy Musk. β. M. pygmaeus leverianus. 634. Striped Pigmy Musk. 635. Memina. 4. Moschus Memina. 5. Moschus javanicus. 636. Javan Musk. 6. Moschus americanus. 637. Brasilian Musk. 7. Moschus sinensis. 638. Formosan Musk. CERVUS. DEER. With palmated horns. 639. Elk. 1. Cervus Alces. 640. Irish Elk. β. C. Alces fossilis. Rein Deer. 2. Cervus Tarandus. 641. Common Rein Deer. a. C. Tarandus Rangifer. β. C. Tarandus groenlandicus. 642. Greenland Rein Deer. y. C. Tarandus Caribou. 643. Canadian Rein Deer. : 3. Cervus Dama. 644. Fallow Deer. * With rounded horns. 4. Cervus Elaphus. 645. Stag. 646. Maned Stag. β. C. Elaphus Hippelaphus. 7. C. Elaphus corficanus. 647. Corfican Stag. 5. C. Elaphus canadensis. 648. Canadian Stag. 649. Chinese Stag. . C. Elaphus minutus. 650. Virginian Deer. 5. Cervus virginianus. Axis. 6. Cervus Axis. a. C. Axis maculatus. 651. Spotted Axis. β. C. Axis unicolor. 652. Middle Axis. 653. White Axis. y. C. Axis albus. 654. Large Axis. 3. C. Axis major.

7. Cervus porcinus.

β. C. porcinus maculatus.

655. Porcine Deer.

656. Spotted Porcine Deer.

CATALOGUE

657. Muntjac.

658. Roe.

659. White Roe.

660 Aha.

661. Mexican Deer.

8. Cervus Muntjac.

9. Cervus Capreolus.

β. C. Capreolus albus.

10. Cervus pygargus.

11. Cervus mexicanus.

*** Uncertain species.

662. Tema maçame.

663. Cuguacu apara.

664. Cuguacu ete.

665. Biche des bois.

666. Biche des puletuviers.

667. Mazame.

668. Cariacou.

669. Barallou Hind.

670. Wood Hind.

671. Savanna Hind.

672. Indian Deer.

673. Squinaton.

674. Grey Deer.

675. Unknown Deer.

GIRAFFE.

676. Camelopardalis.

ANTELOPE.

677. Blue Antelope.

678. Lerwee.

679. Chamois.

680. Nanguer.

681. Nagor.

682. Biggel.

683. Nylgau.

684. Saiga.

685. Tzeiran.

686. Persian Antelope.

687. White faced Antelope.

638. Springer Antelope.

689. Barbary Autelope.

. c. Cervus Temama.

s. Cervus Cuguapara.

7. Cervus Cuguete.

3. Cervus fylvaticus.

. Cervus paludofus.

¿. Cervus Mazame.

7. Cervus Cariacou.

6. Cervus Barallou.

7. Cervus nemorosus.

z. Cervus pratenfis.

A. Cervus indicus.

μ. Cervus Squinaton.

». Cervus guineensis.

E. Cervus anomalus.

xxxvi CAMELOPARDALIS.

1. Camelopardalis Giraffa.

xxxvii ANTILOPE

1. Antilope leucophaea.

2. Antilope Lerwia.

3. Antilope Rupicapra.

4. Antilope Dama.

5. Antilope redunca.

6. Antilope Tragocamelus.

7. Antilope picta.

8. Antilope Saiga.

9. Antilope gutturofa.

10. Antilope subgutturosa.

11. Antilope pygarga.

12. Antilope faltans.

13. Antilope Dorcas.

OF THE MAMMALIA.

690. Kevel.

691. Corine.

692. Bubalis.

693. Koba.

694. Gnou.

695. Pasan.

696. African Antelope.

697. Algazel.

698. Leucoryx.

699. Coudous.

700. Guib.

701. Grimm.

702. Guevei.

703. Wood Antelope.

704. Condoma.

705. Lidmee.

GOAT.

706. Wild Goat.

707. Common Goat.

708. Angora Goat.

709. Syrian Goat.

711. Whidaw Goat.

712. Juda Goat.

713. Capricorn.

714. Cabonas Goat..

715. Ibex.

716. Caucassan Goat..

SHEEP.

Common Sheep.

717. Hornless Sheep.

718. Dwarf Sheep.

719. Rustic Sheep.

720. Spanish Sheep.

721. Many horned Sheep.

722. African Sheep.

7.23. Wattled Sheep.

14. Antilope Kevella.

15. Antilope Corinna.

16. Antilope Bubalis.

17. Antilope Koba.

18. Antilope Gnu.

19. Antilope Oryx.

20. Antilope Oreotragus.

21. Antilope Gazella.

22. Antilope Leucoryx.

Antilone Orece

23. Antilope Oreas.

24. Antilope scripta.

25. Antilope Grimmia.

26. Antilope pygmaea.

27. Antilope sylvatica.

28. Antilope Strepsiceros.

29. Antilope Cervicapra..

xxxviii

CAPRA.

1. Capra Aegagrus.

2. Capra Hircus.

3. Capra angorensis.

4. Capra mambrica.

5. Capra depressa.

6. Capra reversa.

7. Capra nana.

8. Capra Capricornis.

9. Capra mutica.

10. Capra Ibex.

14. Capra caucafica.

XXXXIX

OVIS.

1. Ovis Aries.

a. O. Aries anglica.

β. O. Aries nana.

7. O. Aries rustica.

3. O. Aries hispanica.

6. O. Aries polycerata.

ζ. O. Aries africana.

7. O. Aries guineensis.

f

CATALOGUE

- 724. Broad-tailed Sheep.
- 725. Fat-rumped Sheep.
- 726. Bucharian Sheep.
- 727. Long tailed Sheep.
- 728. Cape Sheep.
- 729. Bearded Sheep.
- 730. Morvant.
- 731. Cretan Sheep.
- 732. Argali.
- 733. Corfican Argali.
- 734. Pudu.

O X.

Common Ox.

- A. Wild Ox.
- 735. Urus.
- 736. Bonafus.
- 737. Bifon.
 - B. Domestic Ox.
- 738. European Ox.
- 739- Indian Ox.
- 740. Zebu.
- 741. Surat Ox.
- 742. Abyssinian Ox.
- 743. Boury.
- 744. Tinian Ox.
- 745. Lant.
- 746. Arnee.
- 747. American Bison.
- 748. Musk Ox.
- 749. Grunting Ox.
- 750. Ghainouk.
- 751. Sarlyk.
- 752. Hornless Grunting Ox.
- 753. Bussalo.
- 754. Naked Buffalo.
- 755. Anoa.
- 756. Guavera.

- 9. O. Aries laticaudata.
- . O. Aries steatopyga.
- *. O. Aries bucharica.
- λ. O. Aries longicaudata.
- μ. O. Aries capenfis.
- . O. Aries barbata.
- . O. Aries jubata.
- 2. Ovis Strepficeros.
- 3. Ovis Ammon.
 - β. O. Ammon europaea.
- 4. Ovis Pudu.

xl

B O S.

- 1. Bos Taurus.
 - A. B. Taurus ferus.
 - a. B. Taurus Urus.
 - β. B. Taurus Bonafus.
 - v. B. Taurus Bison.
 - B. B. Taurus domesticus.
 - 3. B. Taurus europaeus.
 - . B. Taurus indicus major,
 - ζ. B. Taurus indicus minor.
 - n. B. Taurus indicus minimus.
 - 9. B. Taurus abeffinicus.
 - . B. Taurus madagascarensis.
 - *. B. Taurus tinianensis.
 - A. B. Taurus africanus.
- 2. Bos Arnee.
- 3. Bos americanus.
- 4. Bos moschatus.
- 5. Bos gruniens.
 - B. gruniens Ghainouk.
 - v. B. gruniens Sarlyk.
 - 8. B. gruniens ecornis.
- 6. Bos Bubalus.
 - s. B. Bubalus feminudus.
 - y. B. Bubalus Anoa.
 - B. Bubalus Guavera.

OF THE MAMMALIA.

757. Cape Ox.

758. Baas.

759. Dwarf Ox.

7. Bos caffer.

8. Bos barbatus.

9. Bos pumilus.

VI. BELLUÆ.

HORSE.

Common Horse.

760. Wild Horse.

761. Domestic Horse.

762. Dshikketai.

Aſs.

763. Onager.

764. Domestic Ass.

765. Mule.

766. Bardeau.

767. Zebra.

768. Hybrid Zebra.

769. Quacha.

770. Chilese Horse.

HIPPOPOTAMUS.

771. Amphibious Hippopotamus.

TAPIR.

772. American Tapir.

HOG.

Common Hog.

773. Wild Hog.

774. Domestic Hog.

775. Single hoofed Hog.

776. Chinefe Hog.

777. Guinea Hog.

778. Siam Hog.

779. Pecary.

780. Lesser Pecary.

781. Patira.

782. African Hog.

783. Engallo.

784. Babyroussa.

xli

E QUUS.

1. Equus Caballus.

a. E. Caballus ferus.

B. E. Caballus domesticus.

2. Equus Hemionus.

3. Equus Afinus.

«. E. Asinus ferus.

β. E. Afinus domesticus.

v. E. Afinus Mulus.

5. E. Afinus Hinnus.

4. Equus Zebra.

β. E. Zebra hybridus.

5. Equus Quagga.

6. Equus bisulcus.

xlii HIPPOPOTAMUS.

1. Hippopotamus amphibius.

vliii

TAPIR.

1. Tapir Americanus.

vliv

S U S.

1. Sus Scrofa.

«. S. Scrofa ferus.

s. S. Scrofa domesticus.

7. S. Scrofa domesticus unisulcus.

3. S. Scrofa domesticus sinensis.

2. Sus Porcus.

β. S. Porcus siamensis.

3. Sus Tajassu.

β. S. Tajassu minor.

v. S. Tajassu Patira.

4. Sus africanus.

5. Sus aethiopicus.

6. Sus Babyrussa.

CATALOGUE, &c.

VII. CETE.

NARVAL.

785. Horned Narval.

WHALE.

Common Whale.

- 786. Greenland Common Whale.
- 787. Iceland Common Whale.
- 788. Larger Common Whale.
- 789. Fin Whale.
- 790. Scrag Whale. Humped Whale.
- 791. Single humped Whale.
- 792. Six-humped Whale.
- 793. Broad-nofed Whale.
- 794. Beaked Whale.

CACHALOT.

- 795. Leffer Cachalot.
 Blunt-nofed Cachalot.
- 796. Black Blunt-nofed Cachalot.
- 797. White Blunt-nofed Cachalot.
- 798. Grey Blunt-nofed Cachalot. Sharp-nofed Cachalot.
- 799. Hook toothed Sharp nosed.
- 800. Straight-toothed Sharp-nofed.
 Cachalot.
- 801. High-finned Cachalot.

DOLPHIN.

- 802. Porpoise.
- 803. White Porpoise.
- 804. Brown Porpoise.
- 805. True Dolphin.
- 806. Grampus.
- 807. Sword Grampus.
- 808. Beluga.

xlv MONODON.

1. Monodon monoceros.

xlvi BALENA.

- 1. Balaena Mysticetus.
 - a. B. Mysticetus groenlandica.
 - β. B. Mysticetus islandica.
 - 7. B. Mysticetus major.
- 2. Balaena Physalis.
- 3. Balaena Boops.
- 4. Balaena gibbofa.
 - «. B. gibbofa gibbo unico.
 - B. gibbofa gibbis fex.
- 5. Balaena Musculus.
- 6. Balaena rostrata.

xlvii PHYSETER.

- 1. Physeter Catodon.
- 2. Physeter macrocephalus.
 - a. Physeter macroceph. niger.
 - β. Physeter macroceph. albicans.
 - v. Physeter macroceph. cinereus.
- 3. Physeter microps.
 - .. Physeter microps falcidentatus..
 - β. Physeter microps rectidentatus.
- 4. Physeter Tursio.

xlviii DELPHINUS.

- 1. Delphinus Phocaena.
 - β. D. Phocaena albus.
 - 7. D. Phocaena fuscus.
- 2. Delphinus Delphis.
- 3. Delphinus Orca.
 - β. D. Orca ensidorsatus.
- 4. Delphinus leucas.

C L A S S I.

MAMMALIA*.

The rivers with their dry banks, and the retiring mountains, resound with the bleating of flocks, and the frequent lowing of the herds.—VIRGIL.

HE Mammalia are such animals as nourish their young by means of lactiferous teats or paps. In their structure, both external and internal, and in their various organs, they resemble man. They are for the most part quadrupeds, or having sour legs and seet; and, along with us, they inhabit the surface of the earth, environed with cruel enemies: The largest in size, though by far the smallest in number, being furnished with fins, inhabit the ocean.

The clothing of quadrupeds is composed of fost, separate, slexible hair, little subject to injury, which is more plentifully bestowed on the inhabitants of cold regions than on those which live in the warmer parts of the earth. This hair coalesces together, on Urchins and Porcupines, to form spines or prickles; on the Manis these are flattened into sharp pointed scales; and they are united into a shelly coat on the Armadillo: The fur is often divided by distinct ridges, as in the Dog and Horse; and those ridges, on the Horse and Hog, are sometimes elongated into a mane. In aquatic quadrupeds the hair is altogether wanting, lest it should absorb the wet; except in such as are sometimes obliged to live on shore. The face of animals is frequently furnished with bristly warts;

* The term Mammalia, here used, fignifies such animals as feed their young by milk derived from proper glands situated on the mother, and surnished with teats or paps. There is no single English word by which this can be translated; Quadrupeds would exclude the Cetaceous order, which, from giving milk, are arranged by Linnæus in this class.—T.

Vol. I.

the lips with whifkers; the chin, as in Man, Apes, and Goats, with a beard; and the legs and breast, as in the Horse and Camel, are often provided with callosities.

The fulcra, supporters, or instruments of motion, are intended for more expeditiously escaping from enemies by flight, or for pursuing after prey. Terrestrial animals, of this class, are furnished with four legs and feet; of these the anterior pair, or fore legs, have fometimes a hand divided into fingers, with a distant opposed thumb, as in the Primates and Opposiums: The hinder feet are more united, that they might ferve better for supporting the weight of the body; these are either palmated or webbed, having the toes joined together by an interpoled membrane, for the purpoles of fwimming; or fisfile, having the toes separated, for running quickly; or supported by heels, as in Man and the Bear, for standing firmly: Besides these, that the toes, during slight, may not be torn in rugged places, they are either fortified with a thick fur on the foles of the feet, as in the common Hare, Arctic Fox, and Sloth; or they are hoofed, having the toes furrounded by horny nails in the manner of a shoe, as in the orders of Pecora and Belluae; in some of which animals the heel is included in this manner instead of the toes, which are then wanting: The more fierce animals have their feet armed with claws placed on the extremities of their toes, for feizing their prey, tearing their enemies, and digging the ground; in most of these the claws are pointed and crooked; a small number of less ferocious animals have the claws flattened, and of an oval shape, while the rapacious order of Ferae, or beafts of prey, have bent sharp pointed talons: The slying animals of this class either mount into the air by the assistance of palmated fore feet,. having the toes much elongated, and connected by an interpoled membrane, as in Bats; or they float in the air by means of a membrane stretched out between the fore and hinder legs, as in the flying Macauco and failing Squirrel: Aquatic animals are destitute of claws and hoofs, having, instead of feet, pectoral fins, which are formed by the shoulder blade, arm, fore arm, wrist, hand, and fingers, all jumbled together, as in the order Cete.

The offensive arms of the animals of this class, besides the claws and hoofs already taken notice of, and the teeth, which will be mentioned afterwards, are chiefly horns of a cartilaginous or boney nature, which are placed on their heads: These are either solid and persistant, as in the Rhinoceros; or solid and annually deciduous, being, while growing, which they do from their outer ends, covered with a hairy skin which falls off when they are full grown, as in Deer; or, as in the Ox, Goats, and Sheep, they are hollow and persistant, covering a central cavernous boney slint, and growing by additions at their bases; with these weapons animals attack, gore, and strike their adver-

faries.

faries. They thus are enabled in various ways to elude or resist the force of enemies, by fighting, biting, tearing, kicking, striking, running, leaping, climbing, and digging; or by swimming, slying, urining, stinking, roaring, and terrifying.

The instruments for mastication of food are the teeth, which are of three kinds: The fore teeth, which are sometimes in the form of compressed wedges, and called incisors; these ferve for plucking, gnawing, and cutting the food: The tusks are longer than the other teeth, their form is conical and pointed, and they have no opposites which directly meet them on closing the mouth; their use is for tearing the food: The grinders, or back teeth, are of a broad form for chewing the food; these, in animals which live on vegetables, are obtuse, and in carnivorous animals are furnished with sharp conically pointed protuberances on their upper surfaces. The Anteenters and Manis alone, of all the class, have no teeth.

The tails of animals are composed of an elongation and multiplication of the latter vertebrae of the back, and serve for concealing the unclean parts: In a few animals, as in Man, some of the Apes, and a few of the Murine tribe, this is wanting; in some it is short, in which case it is only the length of the thigh, or shorter, as in the Hare, Satyr, Mole, and Urchin; in others it is long, being at least the length of the leg down to the feet, as in Dogs, Mice, and others; it is sometimes naked, as in Mice; or prehensile, that is, capable of lapping round an object and serving the purpose of a fifth hand, as in some species of the Ape, Porcupine, and Opossum; sometimes it is covered with slowing hair, as in the Horse and Ox; sometimes tusted, the extremity being shaped like a brush, as in the Sea Lion and Jerboa; or, lastly, it is shed laterally, both sides being hairy, as in the Squirrel and Auteeater.

The fenses of animals are intended as guardians for protecting them from danger:—
The external ears, which are wanting in aquatic animals, are either rounded, or oval, or pointed, or sharp, or divided; and are erect, or pendulous:—The pupils of the eyes are either round, for using during the day; or contracted into a line, which is either transverse or vertical, for nocturnal use; in some there is a membrana nictitans, to preferve the eyes from the glare of light without shutting the eye-lids; all have moveable eye-brows; in man and apes both eye lids are moveable, but in most of the rest the upper eye-lid only is capable of being moved:—The nose is either compressed, statened, crooked upwards, or bisid; or, it may be shorter than the lips, as in Apes; a little longer, as in most of the order of Ferae; or it is elongated into a proboticis, or slexible cartilaginous trunk, as in the Elephant; the nostrils are either oval or rounded:—The

tongue in most animals is simple; in some fringed with jags at the edges, as in the Dog; beset with papillae on its upper surface, as in the Feline tribe; or long and slender, as in the Manis and Ant-eater; it is sometimes bissed, as in Seals:—The upper lip in most has a surrow in the middle running downward from the nose; in a few, as in the order of Glires, it is bissed, or divided.

An attentive investigation of the genital organs might offend, though from the various structures of the clytoris, nymphae, scrotum, and penis, considerable service might be derived in forming a natural arrangement of animals. For the most part animals of this class use transfent venery, when the males fight together for the enjoyment of the semales, and the stronger prevail, as best sitted for the procreation of a more lively offspring: The impregnated semales bring forth their young alive, and sully formed, the soetus being excluded from the egg within their own bodies; when dropped, they suckle them with milk, from lactiferous glands or mammae, excreted through teats or paps; they defend them while young, taking care of them till the time of another litter, and sometimes even to a more advanced age:—Some animals are polygamous, as Seals, the male preserving to himself, by force, a feraglio of semales which he has associated with him:—A very small number, as some Apes, the Macauco, the Bat, and Urchin, pair together; a single male and semale entering into a monogamious society, and rearing their young ones by a joint concern.

The mammae, or lactiferous dugs of the female animals of this class, are always in pairs, and in a determinate number for each species; and, except the Horse genus, the males have always the rudiments of these organs, similar in number and arrangement with those of the females of the same species:—These are either pectoral, being placed on the breast, as in the orders Primates and Cete;—or they are abdominal, that is, situated on the belly, as in Oppossums and Seals;—or inguinal, which are placed in the groin, as in the orders Pecora and Belluae;—or both pectoral and abdominal at the same time, as in most animals of the order Glires;—some animals, as the Hog and others, have them arranged longitudinally;—and, lastly, there are generally two teats on the mother for each young one produced in ordinary births.

The uses of the animals of this class to man are various:—The order of Pecora are bred for supplying flesh, milk, cheese, butter, leather, tallow, and for their fleeces;—the Horse, Ox, Camel, and Elephant, are employed for draught and for carrying loads;—several animals of the order of Ferae are used for hunting or destroying other animals that are troublesome or noxious, such as Mice and Serpents:—The rarer ani-

mals are preferved, for curiofity and observance of their manners, in vivaria or menageries.

The authors to be consulted respecting this class of animals are Gesner, Aldrovandus, and Jonston, of the last age; and, in the present century, Ray, Brisson, Houttuyn, Busson, Pennant, Pallas, Schreber, Klein, Cetti, Erxleben, Blumenbach, Camper, and Storr. The science is to be treated of properly by giving a description of each animal in its form, diet, economy, and manners, that from such history the intention of the Creator in forming them may be discovered; examples of such descriptions of the common Dog, Rhein Deer, Guinea Pig, or restless Cavy, common Hog, and domestic. Sheep, may be found in the Amoenitates Academicae.

The Ordinal Characters of the Animals of this Class may, in the first place, be chofen from particulars respecting the Teeth;—thus,

MAMMALIA, having,

	The fore teeth are wanting in both jaws;	BRUTA.	2 0,
1. Toes and claws;	The fore teeth are wanting in both jaws; Two incifive fore teeth in both, and no tusks;	GLIRES.	4.
	From incidua four touth in both and one tulk?		I.
	on each fide in each jaw;		
	Six, two, or ten, conical fore teeth in both jaws, and one tusk on each side in both;	FERÆ.	3•.
2. Hoofed feet;		Belluæ.	6.
	Fore teeth in both jaws; Fore teeth only in the lower jaw;	Pecora.	5.
3. No feet;	The teeth are various in the different species;	CETE.	7.

CHARACTERS

CHARACTERS

OFTHE

ORDERS OF MAMMALIA.

I. PRIMATES.

Their fore teeth are incifive wedges, of which there are four, parallel to each other, in the upper jaw; except in some species of Bats, which have either two only, or none: They have one tusk on each side in both jaws.—The females have two pectoral milk teats.—The two fore feet resemble hands, having singers, for the most part, furnished with slattened oval nails.—They live mostly on fruits and seeds, a few only using animal food.

II. BRUTA.

These have no fore teeth in either jaw.—Their feet are fortified with strong, blunt, hoof-like nails.—They are of a clumsy make, and are slow in their motions.—They, mostly, live on vegetables, which they only bruise in mastication.

III. FERÆ.

Their fore teeth are conically pointed, and of these most have six in each jaw: They all have tusks, longer than the other teeth: Their grinders are furnished with conical projections. Their feet are divided into toes, which are armed with sharp hooked claws.—They live on animal food, either devouring dead carcasses, or preying on other animals.

IV. GLIRES.

Have two incifive fore teeth in each jaw, and no tusks.—Their feet, which are formed for bounding and running, are provided with toes and claws.—They feed on vegetables, gnawing the barks, roots, and other parts of plants.

V. PECORA.

These have several blunt, wedge like, incisive fore teeth in the lower jaw only.— Their feet are armed with cloven hoofs.—They live on vegetables, which they twitch or pluck; and they all ruminate or chew the cud. They have all four stomachs: 1st, The Rumen or Paunch, in which the food is macerated for some time, to be afterwards brought up to the mouth and chewed more fully; this action is called ruminating: 2d, The Reticulum, Bonnet, or Kingshood, of a cellular texture, receives the food after rumination: 3d, The Omassus, or Manyplies, composed on its inner surface of numerous folds, digests the food: 4th, The Abomasus, Caille, or Red, divided into bundles, gives acescency to the food, to prevent putrefaction.

VI. BELLUÆ.

Have obtusely truncated fore teeth.—Their feet are armed with hoofs.—Their motions are slow and heavy.—They live on vegetable food, from which their digestive organs draw a tincture without dissolution.

VII. CETE*.

Instead of feet, the animals of this order are provided with pectoral fins and a horizontally flattened tail fit for swimming.—They have no claws or hair.—The teeth, in some species, are cartilaginous, and boney in others.—Instead of nostrils, they have a fistulous opening on the anterior and upper part of the head.—They live entirely in the sea, feeding on sea-blubbers and fish.

CHARACTERS

* This order, though nearly allied in manners and form to fishes, is necessarily ranked with the class of Mammalia from similarity in structure.—Their heart has two auricles and two ventricles, which propel warm, red blood:—They have regularly alternate lungs:—Their eye-lids are moveable:—They have open ears, which receive impressions of sound from the motions of the air:—They have seven vertebrae of the neck, lumbar bones, and a coccyx:—They procreate with an intrant penis:—And, lastly, the semale suckles her young with milk by means of teats.

CHARACTERS

OF THE

GENERA OF MAMMALIA.

I. PRIMATES.

- 1. MAN. 1. HOMO. 1. Walks erect. The female menstruates, and has a hymen.
- 2. Ape. 2. Simia. 2. Have tusks, distant from the other teeth.

* Apes. Simiae. No tails.
** Baboons. Papiones. Short tails.

*** Monkeys. Cercopitheci. Long, not prehenfile, tails, cheek-pouches, and naked but-

**** Sapajous. Sapaji. Long prehensile tails, no cheek-pouches, the buttocks clothed.

**** Sagoins. Sagoini. Long, not prehensile, tails, no cheek-pouches, the buttocks

clothed.

- 3. Macauco. 3. Lemur. 3. Have fix fore teeth in the lower jaw.
- 4. Bat. 4. Vespertilio. 4. Their fore feet are palmated, for the purposes of flying.
 - A. Four fore teeth in each jaw.
 - B. Four fore teeth above, fix below.
 - C. Four fore teeth above, eight below.
 - D. Two fore teeth above, fix below.
 - E. Two fore teeth above, four below.
 - F. Two fore teeth above, none below.
 - G. No fore teeth above, four below.
 - H. No fore teeth in either jaw.
 - I. The number and arrangement of the teeth unknown.

II.

Note - The figures preceding the Latin names express the order of the Genera, as arranged by Dr Gmelin; those which follow the Latin names are prefixed in his edition, apparently to mark the order followed by Linnæus in the former edition; such as have no numeral after the Latin names are new Genera adopted by Dr Gmelin. The figures which precede the English names show the order observed in this edition. T.

II. BRUTA.

5. Sloth.

5. Bradypus. 7.

Have no fore teeth or tusks; the anterior grinders are longer than the rest. body is hairy.

6. Ant-eater.

6. Myrmecophaga. 8.

Have no teeth. The body is hairy.

7. Manis.

7. Manis. 9.

Have no teeth. The body is covered with fcales.

8. Armadillo.

8. *Dasypus*. 10.

Have grinders, but no tusks or fore teeth. The body is covered with a crustaceous fhell.

9. Rhinoceros.

9. Rhinoceros 36. Sucotyro.

10. Sukotyro. 11. Elephant

12. Walrus.

10. Elephas. 5.

Has a horn on the middle of the fore head. Has horns on each fide below the eyes.

Has tusks and grinders, but no fore teeth. The fnout is elongated into a flexible trunk.

11. Trichechus. 6.

Has tusks in the upper jaw; rough boney excrescences for grinders. Hind legs and feet stretched backwards.

III. FERÆ.

13. Seal.

12. Phoca. 11.

14. Dog.

13. Canis. 12.

15. Cat.

14. Felis. 13.

- * With long tails, and plain ears.

Six fore teeth above, four below.

Six fore teeth in each jaw; the intermediate ones, above, lobed.

Six fore teeth in each jaw; the lower ones The tongue prickly. equal.

- ** With short tails, and pencilled ears. Lynxes.

16. Fitchet.

15. Viverra. 14.

17. Weafel. 16. Mustela. 15. Six fore teeth in each jaw; the intermediate ones, below, shorter than the rest.

Six fore teeth in each jaw; the lower ones crowded together; two, alternate, standing within the rest.

* Otters.

Lutrae.

** Weafels. Mustelae. The feet webbed. The feet divided.

18. Bear.

17. Ursus. 16.

Six fore teeth in each jaw; the upper ones hollowed. The penis contains a crooked bone.

A M M A L I A:

42 Ten fore teeth above, eight below. 19. Opossum. 18. Didelphis. 17. 19. Talpa. 18. Six fore teeth above, eight below. 20. Mole. Two fore teeth above, four below-20. Sorex. 19. 21. Shrew. Two fore teeth in each jaw. 21. Erinaceus. 20. 22. Urchin. body is befet with prickles. IV. GLIRES. 22. Hystrix. 21. 23. Porcupine. 23. Cavia. 24. Cavy.

lar bones. 25. Beaver. 24. Castor. 23.

26. Murine quadrupeds. 25. Mus. 24.

Myocastores. * Beaver-rats. ** Rats and Mice. Mures. + Myofuri. ++ Gunicularii. Criceti. .

*** Hamsters. *** Mole-rats. Myotalpae.

27. Marmot. 26. Arctomys.

28. Squirrel. 27. Sciurus. 25.

> * Climbing Squirrels. S. Scandentes. ** Flying Squirrels. S. Volitantes.

29. Dormouse. 28. Myoxus. 26. The body is covered with long spines. The fore teeth are wedge like; four grinders on each fide. No col-

The upper fore teeth wedge-like; four grinders on each fide. Has collar bones.

The upper fore teeth wedge-like; three grinders on each fide. Has collar bones.

The tail is flattened at the end.

The tail is round.

With naked tails. With hairy tails.

Having cheek-pouches.

Have no external ears; fmall eyes; and a very short tail, or none.

Have two wedge-like fore teeth in each jaw; five grinders above, and four below, on each fide. Have collar bones.

Have two wedge-like fore teeth above and two, sharp pointed, below; five grinders above, and four below, on each fide. Have collar bones: Hair on the tail shed side ways: Long whifkers.

Have long whiskers; and a round tail, thick at the extremity.

30. Jerboa.	29. Dypus.	Have very short fore, and very long hind legs.		
31. Hare.	30. Lepus. 22.	The upper fore teeth double.		
32. Ashkoko.	31. Hyrax.	Have broad upper fore teeth. No tail.		
V. PECORA.				
33. Camel.	32. Camelus. 27.	Hornless. Has several tusks on each side of each jaw.		
34. Mufk.	33. Moschus. 28.	Hornless. Solitary tusks; those in the		
		upper jaw project from the mouth.		
35. Deer.	34. Cervus. 29.	Has folid, branchy, deciduous horns. No tulks in either jaw.		
36. Camelopard.	35. Giraffa.	Very short horns. The fore legs are		
an Amilana	a6 Autilaha	much longer than those behind.		
37. Antilope.	36. Antilope.	Has folid, simple, persistent horns. No tusks in either jaw.		
38. Goat.	37. Capra. 30.	Has hollow, erect horns. No tusks.		
39. Sheep.	38. Ovis. 31.	Has hollow reclined horns. No tusks.		
40. Bull.	39. Bos. 32.	Has hollow extended horns. No tusks.		
VI. BELLUÆ.				
41. Horfe.	40. Equus. 33.	Has fix fore teeth in each jaw.		
42. Hippopotamus.	41. Hippopotamus. 34.	Has four fore teeth in each jaw.		
43. Tapir.	42. Tapir.	Has ten fore teeth in each jaw.		
44. Hog.	43. Sus. 35.	Has four fore teeth in the upper, and fix		
in the lower jaw.				
VII. CET				
45. Narval.	44. Monodon. 37.	Has two extended boney teeth in the up-		
C 7771-1	D 1 0	per jaw.		
46. Whale.	45. Balaena. 38.	Has horny teeth in the upper jaw.		
47. Cachalot.	46. Physeter. 39.	Has boney teeth in the lower jaw only.		
48. Dolphin.	47. Delphinus. 40.	Has boney teeth in both jaws.		

3.

I. PRIMATES*.

Their fore teeth are wedge-like, intended for cutting; those in the upper jaw are parallel, and four in number.

They have two paps situated on the breast.

1. MAN.-HOMO.

Know thy felf †.

Sapient Man.-I.-H. Sapiens.

Man feems a native of the countries within the Tropics, and dates were probably his original food. He has, however, become accustomed to the less genial climes without the Torrid Zone, and now supports his existence by means of agriculture, adding animal food to that intended him by Nature.

This is the only species; he is endowed with wisdom far superior to, or rather in exclusion of, all other animals. He varies from climate, education, and habits. Linneus enumerates the following varieties.

Wild Men. - a. - H. Feri.

Walk on all fours, are dumb, and covered with hair ‡.

- 1. A youth found in Lithuania, in 1761, refembling a bear,
- 2. A youth found in Hesse, in 1544, resembling a wolf.

* The name of this order may be translated Chiefs, as being the principal animals, because it contains Man, and those animals which resemble him, especially in the circumstances of the teeth and mammae, or teats.—T.

† This noted faying of Solon is the first step towards the attainment of true wisdom, and was formerly written, in letters of gold, on the temple of Diana.

‡ These instances of wild men, and their similitudes, are partly to be attributed to imposture, and in part to exaggeration. Most probably idiots who had strayed from their friends, and who resembled the above animals only in imitating their voices.—T.

- 3. A youth in Ireland resembling a sheep. Tulp. Obs. iv. 9.
- 4. A youth in Bamberg refembling an ox. Camerarius.
- 5. A wild youth found, in 1724, in Hanover.
- 6. Wild boys found, in 1719, in the Pyrenees.
- 7. A wild girl found, in 1717, in Overysel.
- 8. A wild girl found, in 1731, in Champagne.
- 9. A wild lad found near Leyden. Boerhaave.

American. - B. - H. Americani.

Of copper coloured complexion, choleric constitution, and remarkably erect.

Their hair is black, lank, and coarse; their nostrils are wide; their features harsh, and the chin is scantily supplied with beard. Are obstinate in their tempers, free, and satisfied with their condition; and are regulated in all their proceedings by traditional customs.—Paint their skin with red streaks.

Of fair complexion, fanguine temperament, and brawny form.

The hair is flowing, and of various shades of brown; the eyes are mostly blue.—Of gentle manners, acute in judgment, of quick invention, and governed by fixed laws.—Dress in close vestments.

Of footy complexion, melancholic temperament, and rigid fibre.

The hair is strong, black, and lank; the eyes dark brown.—Of grave, haughty, and covetous manners. Governed by opinions.—Dress in loose garments.

Of black complexion, phlegmatic temperament, and relaxed fibre.

The hair is black and frizly; the skin soft and filky; the nose is flat; the lips thick; and the female has a natural apron *, and long lax breasts.—Of crasty, indolent, and careless dispositions, and are governed in their actions by caprice.—Anoint the skin with grease.

Of these there are several varieties; the first and second of which, in the following list, are occasioned by peculiarity of climate, while the rest are produced by artificial management.

- 1. Alpini. The inhabitants of the northern mountains; these are small in stature, active, and timid in their dispositions.
- 2. Patagonici. The Patagonians of South America; of vast size, and indolent in their manners.
- 3. Monorchides. The Hottentots; having one testicle extirpated.
- 4. Imberbes. Most of the American nations; who eradicate their beards, and the hair from every part of the body except the scalp.
- 5. Macrocephali. The Chinese; who have their heads artificially forced into a conical form.
- 6. Plagiocephali. The Canadian Indians; who have the fore part of their heads flattened, when young, by compression.

The following arrangement, of the varieties in the human species, is offered by Dr Gmelin as more convenient than that of Linnæus.

1. White.—a.—H. Albus.

Formed by the rules of fymmetrical elegance and beauty; or, at leaft, what we confider as fuch.—
This division includes almost all the inhabitants of Europe; those of Asia on this side of the Oby, the Caspian, Mount Imaus, and the Ganges; likewise the natives of the north of Asrica, of Greenland, and the Esquimeaux.

Of a yellowish brown colour; has scanty hairs, slat features, and small eyes.—This variety takes in the whole inhabitants of Asia not included in the preceding division.

Of black complexion; has frizly hair, a flat nofe, and thick lips.—The whole inhabitants of Africa, excepting those of its more northern parts.

The complexion of the skin resembles the colour of copper not burnished. The whole inhabitants of America, except the Greenlanders and Esquimeaux.

Chiefly of a dark blackish brown colour, having a broad nose, and harsh coarse streight hair.— The inhabitants of the southern islands; and of most of the Indian islands.

DESCRIPTION OF MAN.

The body, which feldom reaches fix feet in height, is erect, and almost naked, having only some scattered distant hairs, except in some small spots of the body, to be afterwards noticed, and when first born is entirely naked. The head is shaped like an egg; the fcalp being long, and covered with hair; the forehead broad; the top of the head flat; and the hind head protuberant. The face is naked, having the brow, or forchead, flattened and quadrangular; the temples are compressed, with peaked angles pointing upwards and backwards towards the hairy fcalp. The eye brows are prominent, and covered with hairs which, fledding outwards, cover each other like tiles; and, between the inner extremities of the two eye brows, there is a smooth, shallow furrow, or depreffion, in a line with the nofe. The upper eye lid is moveable, but the lower one hardly moves, and both are planted, at their edges, with a row of stiff recurved hairs, named eye-lashes. The eye-balls are round, having no suspending muscle as in those of most quadrupeds; the pupil, or opening of the fight, is circular; and the eye has no membrana nicitans *. The upper parts of the cheeks are prominent, foftish, and coloured with a red blush; their outer parts slattened; the lower parts are hollowed, lax, and expansile. The nose is prominent and compressed at the sides; its extremity or point is higher than the rest, and blunt; the nostrils are oval, open downwards, with thickened edges, and are hairy on their insides. The upper lip is almost perpendicular, and is furrowed on the middle, from the division between the nostrils to the edge of the lip; the under lip is erect, thicker and more prominent than that above; both have a fmooth red protuberance, furrounding the mouth, at their edges. The chin is prominent, blunt, and gibbous. In males, the face, all round the mouth, is covered with hair, called the beard, which first appears, at out puberty, in patches on the chin. The teeth in both jaws may be distinguished into three orders; the fore teeth are erect, parallel, and wedge like, of the kind named incifors, or cutting teeth; they stand close to each other, and are more equal and rounder than in other animals; the tusks, called, in man, eye teeth and corner teeth, of which there is only one on each fide of the fore teeth in each jaw, are a little longer than the fore teeth, but much less so than in other animals, and they are placed close to the other teeth; the grinders, of which there are five on each fide in both jaws, are blunt, and divided on their upper furface into pointed eminences; but these are not so remarkable as in other animals. The ears are placed on the fides of the head, are of an oblong rounded figure, with a femilunar bend on their

^{*} This membrane is a half transparent sereen, serving the purpose of eye-lids in some degree; sometimes along with eye lids, and sometimes without them. It will be afterwards described.—T.

their anterior edges; they lie flat to the head, are naked, arched at the margin on their upper and posterior edges, and are thicker and fost at the under extremities.

The trunk of the body consists of the neck, breast, back, and belly. The neck is roundish, and shorter than the head; its vertebrae, or chine bones, are not, as in most animals, connected by a fuspenfory ligament; the nape is hollowed; the throat, immediately below the chin, is hollowed at its upper part, and protuberant in the middle a little lower down. The breast is somewhat flattened both before and behind; on the fore part there is a cavity or depression where it joins with the neck; the arm-pits are hollow and hairy; the pit of the stomach is flat: On the breast are two distant, round, protuberant mammae, or dugs, each having a cylindrical obtuse wrinkly projecting nipple, which is furrounded by a darker coloured circle called the areola. The back is flat, having protuberances on each fide at the shoulder blades, with a furrow or depresfion between them. The abdomen or belly is large and protuberant, with a hollow at the navel; the epigastric region, or situation of the stomach, is flat; the hypogastric regions, or fides of the belly, are protuberant; the groins flattish and hollowed. The pubis is hairy; the pelvis, or bason, is wider above, and grows narrower below; the male parts are external and loofe; the penis cylindrical; the scrotum roundish, lax, and wrinkled, being divided in the middle by a longitudinal ridge or smooth line. which extends along the whole perinaeum: The female parts are compressed and protuberant, having labia, nymphae, clytoris, and hymen; and, in adults, fecreting the catamenia. There is no external tail.

The limbs confift of arms and hands, instead of fore legs, and of thighs, legs, and feet. The arms are placed at a distance from each other; they are round, and about a foot in length, from the joint of the shoulder to the elbow; the fore arm, or cubit, contains two bones, and is obtusely prominent; the ulna, which forms the principal thickness of the member, is round, and somewhat flattened on the inside. The hands are broad, flat, and rounded; convex on the out side, or back of the hand, and concave on the inside, or palm. Each hand has sive singers, one of which, named the thumb, is shorter and thicker than the rest, and is placed at some distance from them; the others are near each other, and placed parallel, the outer or little finger being the smallest; the second, named index, or fore singer, and the fourth, called the ring singer, are next in length and in size; and the third, or middle singer, is the longest; the point of this last, when the arm and hand hang down, reaches to the middle of the thigh. The nails are rounded and oval, being statly arched, or convex upwards, and each has a semilunar whitish mark at the root or lower extremity.

The lower limbs are placed close together, having brawny muscular haunches, and swelling sleshy hips; the knees are obtuse, bend forwards, and have hollow hams behind. The legs, which are nearly of the same length with the thighs, are of a muscular make behind, where they swell out into what is called the calf; they are lean, and free of slesh on the shins, or fore parts, and taper downwards to the ancles, which have hard hemispherical projections on each side, named the ankle bones, or malleolac. The heel is thick, prominent, and gibbous, being longer and broader than in other animals, for giving a firm support to the body; it joins immediately with the sole of the foot. The feet are oblong, convex above, and slattened on the soles, which have a transverse hollow about the middle. Each foot has sive toes, somewhat bent downwards, and gibbous, or swelled, underneath at their extremities; they are all placed close together, the inner, or great toe, being thicker, and somewhat shorter, than the rest; the second and third are nearly of equal length; and the fourth and sisth are shorter than the others, the last mentioned, or little toe, being the shortest and smallest. The toe nails resemble those on the singers, which are already described.

Thus man differs from the other animals in his erect posture and naked skin, having a hairy scalp, being surnished with hair on the eye-brows and eye-lashes, and having, when arrived at puberty, the pubis, breast, arm-pits, and the chin of the males, covered with hair. His brain is larger than that of any other animal, even the most enormous; he is provided with an uvula, and has organs of speech. His face is placed in the same parallel line with his body; he has a projecting compressed nose, and a prominent chin. His feet, in walking, rest on the heel. He has no tail; and, lastly, the species is distinguished, from other animals, by some peculiarities of the semale constitution, which have been already mentioned.

OBSERVATIONS ON MAN*.

§ 1. Physiologically.—Tecum habita!

Man is a frail machine, chiefly composed of nerves and fibres interwoven with each other. His most perfect state is during youth; and he is endowed with faculties more numerous

Vol. I. G

^{*} In the original these are contained in a note, but are here thrown into the text for greater convenience.—T.

numerous, and in higher perfection, than those of all other animals. "Man, intended "for exercising dominion over the whole animal creation, is sent, by Nature, into the "world naked, forlorn, and bewailing his lot; he is then unable to use his hands or seet, and is incapable of acquiring any kind of knowledge without instruction; he can neither speak, nor walk, nor eat, nor do any action whatever by natural instinct." Pliny.—"We may judge what kind of life is allotted to us by Nature, since it is or- dained, as an omen, that we should come weeping into the world." Seneca.—"It is humiliating to the pride of man, to consider the pitiable origin of this most arrosegant of all the animals." Pliny.

§ 2. DIETETICALLY .- Cura valetudinem!

Bodily health and tranquillity of mind are more to be defired than all the riches, pomp, or glory, of a Crefus, a Solomon, or an Alexander. Health is to be preferved by moderation, it is destroyed by abstinence, injured by variety of delicacies, weakened by unusual things, and strengthened by the use of proper and accustomed fare. Man, learned in the pernicious art of cookery, is fond of many dishes, rendered palatable by the injurious effects of fire, and by the baneful addition of wine. "Hunger is satisfied with a small quantity of food, luxury demands overabundance. Imagination requires vast supplies, while Nature is contented with a moderate quantity of ordinary food, and is burthened by superfluity." Seneca.—According as thou livest, so shall thy life be enjoyed.

§ 3. PATHCLOGICALLY.—Memento mori!

The life of man refembles a bubble ready to burst; his sate is suspended by a hair, and is dependent on the uncertain lapse of time. "The earth contains nothing more frail than man." Homer.—"Nothing is weaker than human life: To what dangers, and to how many diseases, is it not exposed? Hence the whole period of a man's "his is but a span: Half of it is necessarily spent in a state resembling death; without including the years of infancy, wherein there is no judgment, or the period of old as e, fertile in sufferings, during which the senses are blunted, the limbs become stiff, and the faculties of sight and hearing, the powers of walking, and the teeth, the instruments of nourishment, fail before the rest of the body. Pliny.—"Thus a considerable part of death is suffered during life; and death possesses all that belonged to the times which are past. Finally, Nature will speedily recal and destroy all the be-

51

"ings which thou feest, and all that thy imagination can suppose to exist hereaster; for death calls equally upon all, whether they be good, or whether they be evil." Seneca, ii. 59.

§ 4. NATURALLY.—Innocuo vivite, Numen adest!

Man, the Prince of animated beings, who is a miracle of Nature, and for whom all things on this earth were created, is a mimic animal, weeping, laughing, finging, speaking; tractable, judicious, inquisitive, and most wife; he is weak and naked, unprovided with natural weapons, exposed to all the injuries of fortune, needful of assistance from others, of an anxious mind, folicitous of protection, continually complaining, changeable in temper, obstinate in hope, and slow in the acquisition of wisdom. He despites the time which is past, abuses that which is present, and sets his affections on the uncertain future; thus, continually neglecting winged time, which, though infinitely precious, can never be recalled: For thus the best and readiest time, in every age, slies on with miferable mortals; fome it fummons to attend their daily and burthensome labours; fome it confines to luxurious inaction, pampered, even to suffocation, with fuperfluities; fome it folicits in the ever reftless paths of ambition; fome it renders anxious for the acquifition of wealth, and distresses by the possession of the thing defired; fome it condemns to folitude, and others to have their doors continually crouded with visitors; here one bewails the conduct of his children, there one grieves their loss: Tears will sooner fail us than their causes, which only oblivion can remove. "On 66 every hand our evils overbalance our advantages; we are furrounded with dangers; " we rush forwards into untried situations; we are enraged without having received " provocation; like wild beafts, we destroy those we do not hate; we wish for favou-" rable gales, which lead us only to destruction; the earth yawns wide, ready for our " death." Seneca .- " Other animals unite together against enemies of a kind different " from their own, while man fuffers most injuries from his own species." Pliny.

§ 5. Politically.—Esto antiqua virtute et side!

Man, instead of following that which is right, is subjected to the guidance of manifest error; this envelops all his faculties, under the thick veil of custom, as soon as he is born; according to its dictates he is sed, educated, brought up, and directed, in all things; and by its arbitrary rules his honesty, fortitude, wisdom, morality, and religion, are judged of; thus, governed by opinion, he lives conformably to custom, in-

G 2 stead

stead of being guided by reason. Though fent into the world a perishable being, for all are evidently born to fuffer, instead of endeavouring to secure those things which are most advantageous and truly beneficial, he, infatuated by the smiles of fortune, anxiously collects her gawdy trifles for future enjoyment, and neglects her real benefits; he is driven to madness by envious snarlers; he perfecutes with hatred the truly religious for differing from himself in speculative opinions; he excites numberless broils, not that he may do good, but for a purpose that even himself is ignorant of. He wastes his precious and irrecoverable time in trifles; he thinks lightly of immortal and eternal concerns, while regulating the fuccession of his posterity; and, perpetually entering on new projects, forgetful of his real condition, he builds palaces instead of preparing his grave; till at length, in the midst of his schemes, Death seizes him, and then, first opening his eyes, he perceives, O Man! that all is delusion. "Thus we live as " if immortal, and first learn in death that we have to die." Seneca.

PRIMATES.

§ 6. Morally.—Benefac et laetare!

Man is composed of an animated medullary substance, which prompts him to that which is right, and of a bodily frame liable to impressions, which instigates him to the enjoyment of pleasure. In his natural state he is foolish, wanton, an inconsiderate follower of example, ambitious, profuse, diffatisfied, cunning, peevish, invidious, malicious, and covetous; by the influence of just morals he is transformed to be attentive, chaste, considerate, modest, temperate, quiet, sincere, mild, beneficent, grateful, and contented. "Sorrow, luxury, ambition, avarice, the desire of life, and anxiety for " the future, are common to all animals." Pliny.

§ 7. THEOLOGICALLY .- Memento Creatoris tui!

Man, the ultimate purpose of creation, and masterpiece of the works of Omnipotence, was placed on earth that he might contemplate its perfections; he was endowed with fapient reason, and made capable of forming conclusions from the impressions of his fenses, that, from a consideration of created objects, he might know their Creator as the Almighty, the Infinite, the Omniscient, the Eternal God: That we may live morally under his governing care, it is requisite that we have a thorough conviction of its existence, and must have it ever in remembrance.—Other revealed matters on this subject are left to be explained by the Theologians.

"There are two things which lead to a knowledge of God; Creation and Revelation." Augustine.—"God, therefore, may be found out by the light of Nature, but
is only to be known by the assistance of doctrine." Tertullian.—"Man alone has
the inestimable priviledge of contemplating the perfections of God, who is the author both of Nature and of Revelation." Ibid.—"Learn that God has both ordered
you to exist, and that you should study to act that part properly which is allotted for
you in life." Pers. Sat. iii. 71.

MAMMALIA.

53

II. APE .- 2. SIMIA. 2.

Has four close set fore-teeth in each jaw; single tusks on each side in both jaws, which are longer than, and somewhat remote from, the other teeth; and obtuse grinders. The feet are formed like hands.

This genus refembles man in the structure of the paps, clitoris, nymphae, uterus, uvula, eye-lashes, hands, feet, singers, toes, and nails. It is really wonderful that, with so much external resemblance to man, especially in some of the species, this stupid race of animals should differ so widely in the total want of reason *. Between the Tropics, in India, there are numerous shady groves of trees, the branches of which, hanging downwards to the earth, again take root to form columnar trunks, whose thick and losty tops, interlacing each other, overshadow the earth, and protect it from being burnt up by the torrid influence of an ever vertical sun; under covert of this umbrageous thicket, along with parrots and other birds, the race of apes chiefly inhabits.

This is a fuspicious race of animals, and is endowed with a very retentive memory: They are foreward, fond of imitation, and full of gesticulations; are with difficulty brought to learn any thing; use threatening gestures, chatter with their teeth, and seem to laugh: They mostly macerate their food in their cheeks for some time before they chew and swallow it; are fond of hunting after sleas in their own fur and that of their neighbours; have a very delicate sense of feeling, use their arms in swimming, and void their saeces in a very filthy manner, when terrified. In some species the semales have a distinct urinary passage. They are libidinous when pregnant: They live mostly on vegetable food: They all suckle their young; but very sew of the species are hitherto either sully known or accurately described.

Apes, and parrots, the apes among birds, are more numerous in their species than any other animals. They are mostly confined to the Torrid Zone, a single species only being found beyond that line, in Barbary: They are lively, agile, full of frolic, chatter, and grimace; and, from the structure of their members, have many actions in common with mankind, but no superiority over most other brutes in fagacity. Most of them are sierce and untameable; yet some are of a milder nature, and shew a degree of attachment to those who are kind to them; but, in general, they are endowed with mischievous propensities. They are filthy, obscene, lascivious, and thieving; feed on fruits, leaves, grain, and infects; inhabit the woods, and live in trees; are mostly gregarious, and go together in vast companies; but the different species always keep apart, and in separate quarters, never mixing with each other. They leap with vast agility from tree to tree, even when loaded with their young, which cling to them. They are the prey of leopards, and other species of the feline tribe, and of screents, which pursue them to the summits of the trees, and swallow them entire.

The principal marks by which the species of this genus are distinguishable from each other, are derived, 1st, from the tail, which is either long, short, or altogether wanting, or is straight, or prehensile; 2dly, from the buttocks, which are naked, and furnished with callosities, or are covered with hair; 3dly, from the nails, which are flat and rounded, like those of man, or sharp pointed,

like

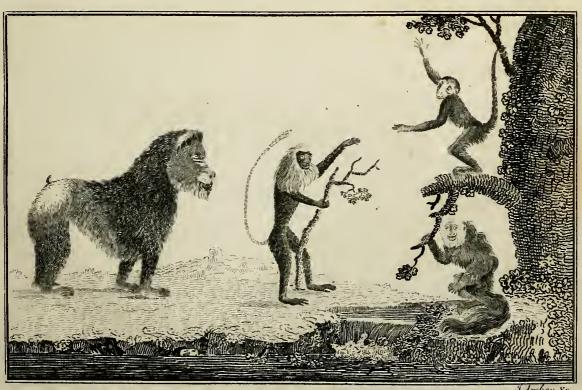
Simia quam similis turpissima bestia nobis.- Ennius.



Nº 4.

Nº 8.

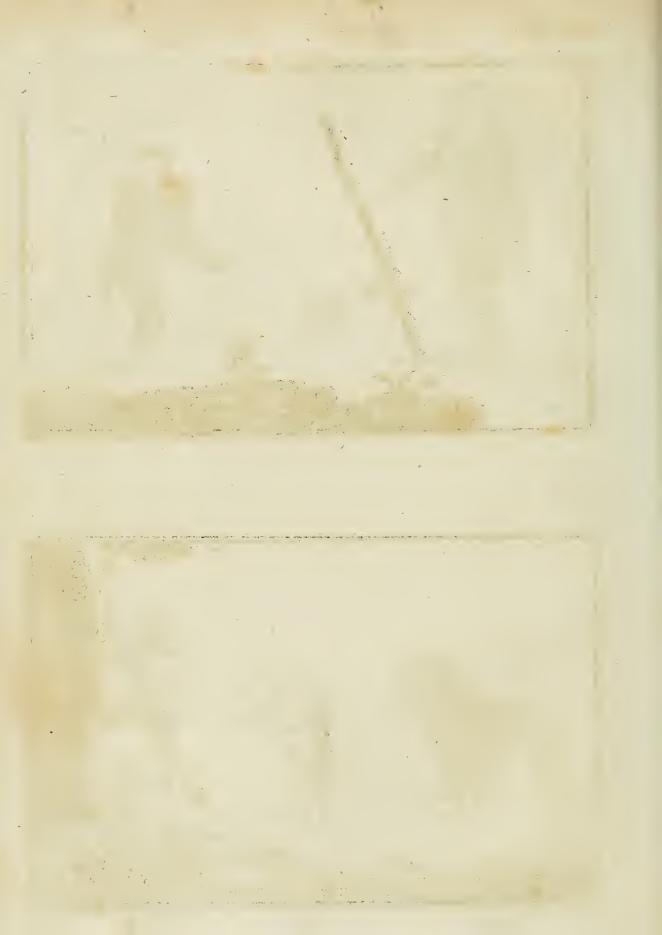
Nº 5.



Nº13.

Nº61.

Nº 66.



like the claws of beafts in general; 4thly, from the prefence or absence of a beard on the chin; and, 5thly, from the cheeks being provided with, or wanting, pouches in their under parts *. For greater convenience, the species of this genus, which are very numerous, are arranged under five subordinate divisions, considered as distinct genera by some authors, and not without reason: Three of these subdivisions were adopted by Linnaus; but Dr Gmelin, following Bussion, has added other two, taken from the third division of his great precursor.

* APES.—SIMIÆ.

Have no tails. The vifage is flat; the teeth, hands, fingers, feet, toes, and nails, refemble those of man; and they walk naturally erect. This division includes the fimiae or apes, properly so called, of the ancients, which are not found in America.

1. Chimpanzee. - 1. Simia troglodytes. 34 +.

Has no tail. The head is conical; the whole body is of a robust brawny make; the back and shoulders are covered with hair, and the rest of the body is naked. Blumenbach, comp. hist. nat. 1. 65. et de gen. hum. var. nativ. 37.

Satyrus indicus. Tulp. obf. med. 284. tab. xiiii.—Chimpanzee. Scotin, Nov. act. Er. Lipf. m. Sept. 1739. tab. 5. p. 564.—Great ape. Penn. H. of Q. n. 72.

Inhabits Angola, and was first brought to Europe in the year 1738, being exhibited as a show in London in the month of August that year. What is said by Linnæus of the homo troglodytes ‡ seems partly of fabulous origin, partly to refer to some monstrous or morbid individual of the human race, and partly to belong to the above species of ape. To the first source we must evidently ascribe what is reported of his faculties of speech, of thought, and of reason; the second supposition is clear from the synonimous name kakurlacko, which he has cited; and to the third the remainder of the description, and what is extracted from Bontius, may be referred. What our author has said of Luciser, or men with tails, may likewise be considered as sabulous.

2.

- * There is great difficulty in arranging the feveral divisions, species, and varieties, of this genus; indeed, there are strong grounds for suspecting, that, as in dogs, the several species intermix with each other, and produce an almost endless variety, by which great confusion in the opinions and descriptions of naturalists have been occasioned, and which would require a much more minute attention to extricate than can ever be given to so useless a race of animals. Many apparent varieties have likewise been formed by the arts of show-men, to impose on the ignorance and credulity of the curious, which has added to the difficulties of the natural historian.—T.
- † The various numerals used in this edition to the species and varieties are to be understood thus: The marginal number on the lest hand shews the running number of the species in each class of this edition; the number preceding the English name is the running number of the species in the genus; that preceding the Latin name shews the arrangement of the species in Gmelin's edition; and that which follows the Latin name is the number prefixed by Gmelin from the last Linnæan edition, or referring to that arrangement.—T.
- ‡ This paragraph, which is a note in the edition by Dr Gmelin, refers to the last Linnæan edition of the Systema Naturæ.—T.

56

2

3

4

2. Orang-outang.—2. Simia Satyrus. 1.

Has no tail. Is of a rusty brown colour; the hair on the fore-arms is reversed, or stands upwards; and the buttocks are covered with hair. Amoen. acad. vi. 68. tab. lxxvi. f. 4. Homo fylvestris, or wild man of the woods. Edwards, av. v. 6. tab. 213.—Orang-utang. Camper, kort beright, &c. Amsterdam 1788. p. 8.

Inhabits the island of Borneo.—Is about two feet high, and walks mostly erect. The body and timbs are univerfally covered with brown hair, about an inch long, which is thinly interfperfed with reddish hairs; the hair on the fore-arms, towards the wrists, is reversed, or lies with its points turned towards the elbow; the buttocks are covered with hair: The head is round, having a naked forehead; the margin of the mouth is hairy; the eye-lashes are black, the upper being longer and thicker than those below; and a range of transversely placed hairs occupies the place of eye-brows: The nose is very short, and is covered with down: The palms of the hands are smooth, and the thumb is shorter than the palm; the feet refemble those of man, except that the great toes are considerably thorter than the others, which are very long.

Much as this species resembles mankind, even possessing the os hyoides, it must still be referred to the genus of Ape, with which it agrees in wanting the flat round nail on the great toes, and in the ftructure of the larynx; besides these circumstances, it is evident, from the direction of the muscles, and from the whole figure of the skeleton, that this animal is not defigned by nature for an erect posture.

B. Pongo. - Simia Satyrus Pongo.

Has no tail, no cheek pouches, and no callosities on the buttocks; walks always erect. and is between five and fix feet high. Sm. Buff. viii. 77.

Homo fylvestris, s. Orang-outang. Bontius, Jav. 84. tab. 84.

Inhabits the ifland of Java, and the interior parts of Guinea.—Has no pouches within his cheeks, no tail, and no callofities on the buttocks; which laft are plump and fleshy. All the teeth are similar to those of man. The face is flat, naked, and tawny; the ears, hands, feet, breast, and belly, are likewife naked; the hair of the head descends on both temples in the form of tresses; the hair on the back and loins is in finall quantities. It is five or fix feet high, and walks always erect on the two hind feet. It has not been afcertained whether the females of this species, or variety, are fubject to periodical discharges, but analogy renders this almost unquestionable. This animal is, by Dr Gmelin, confidered only as a variety of the orang-outang.

y. Jocko. - Simia Satyrus Jocko.

Refembles the former, but is only two feet and a half in height. Sm. Buff. viii. 86. tab. cclii. Cyolock. De Vifme, Phil. Tranf. xiv. 73. tab. 3.—Homo fylvestris, Orang-outang. Tyson, anat. of a pigmy. 108. fig. 1. and 2.

The one feen by the Count de Enfron was about two feet and a half high; and, by the information of his proprietor, was only about two years old. He walked always creft; his air was melancholy, his gait grave, his movements measured, and his dispositions gentle, without any of the mischievous tricks, impatience, malicioufness, or extravagance, of other apes, baboons, and monkeys.

He was remarkably docile, and imitative of the actions of mankind, requiring only figns and words to make him act, while other apes require to be managed with blows; would prefent his hand to vifitors; fat down at table, unfoided his napkin, wiped his lips, ufed a fpoon or a fork, poured his liquor into a glafs, which he made to touch that of the person who drank along with him; would bring a cup and faucer to the tea table, put in sugar, pour out the tea, and allow it to cool before he drank. He eat almost of every thing that was offered, but preferred ripe and dried fruits, and sweet-meats; drank a little wine, but spontaneously left it for milk, tea, or other mild liquors. He was troubled with a teazing cough; lived one summer in Paris, and died in London the following winter. It is probable that this young animal, if possessed of liberty in its native climate, would have acquired, with age, the same heights and dimensions which travellers have ascribed to the Pongo, or great Ourang-outang: Of course, till better informed, these two animals must be considered as constituting but one species.

In Mr Pennant's Synopsis of Quadrupeds, the two last animals, and the Chimpanzee, are confidered only as one species, of which he gives the following description, under the name of great ape. Has a flat face with a deformed resemblance of the human countenance; ears exactly like those of man; the hair on the head longer than on the rest of the body; the body and limbs are covered with reddish shaggy hair, which is longest on the back, and thinnest on the fore-parts; the face and paws are swarthy; the buttocks are covered with hair.

3. Great Gibbon.—3. Simia Lar. 35.

Has no tail. The arms are naked, and as long as the body; the buttocks are naked.

Homo lar. Mantiff. pl. ii. p. 521. Miller on var. sub. of nat. hist. tab. xxvii. A. B.—Grand gibbon. Sm. Buff. viii. 113. tab. ccliii.—Long armed ape. Penn. H. of Q. n. 74.—Simia longimana. Schreber, i. 66. tab. iii. 1.

Inhabits India, particularly Coromandel, Malacca, Sumatra, and the Molucca islands.—Of a mild and slothful disposition, impatient of cold and rain; is about four feet high, of a black colour with a swarthy face, and approaches nearer to the manners of mankind than even the Orang-outang, being more inclined to the erect posture. It is named Golok in India. There are slight callosities on the buttocks. The face is stat, brown, and surrounded with a circle of grey hairs; the canine teeth are proportionally longer than those of man; the ears are naked, black, and round; the eyes are large and sunk; the arms are so enormously long, that, when walking erect, he can reach the ground without bending the body. The semale has the catamenia. This animal is about three feet high when standing erect, but sometimes grows to be as tall as a man; it is of a tranquil disposition and of gentle manners, receiving mildly what is given to it, and feeding, at least in consinement, mostly on bread, fruits, and almonds.

B. Leffer Gibbon .- Simia Lar minor.

Refembles the former, but is much less, being only about a foot and a half high; the body and face are of a brown colour.

Small gibbon. Sm. Buff. viii. 113. t. ccliv.—Leffer long-armed ape. Penn. H. of Q. n. 74. a. Miller's plates, xxvii. Schreber, 80. t. iii. f. 2. Lev. muf.

Inhabits Malacca.

Vol. I.

5

б

7

8

9

y. Silvery Gibbon.—Simia Lar argentea.

The body and arms are covered with filvery hairs; the face, ears, crown of the head, and hands, are black. Penn. H. of Q. n. 74. 8.

Inhabits the forests of Devat in the interior parts of Bengal.—This animal resembles the great Gibbon, except in colour, but is more elegantly made; it is about three feet high when erect, very frolicksome and good natured. Was in the possession of the late Lord Clive some years ago.

4. Pigmy.—4. Simia Sylvanus. 2.

Has no tail. The buttocks are naked; the head roundish; and the arms shorter than the body.

Simia. Gefn. quad. 847.—Briff. quad. 188.—Cercopithecus. Jonst. quad. t. 59. f. 1.—Pitheque. Sm. Buff. viii. 106.—Pigmy-ape. Penn. H. of Q. n. 73.—Пидигор. Aristotle.—Its anatomy. E. N. C. d. 2. a. 7. obs. 40.

Inhabits Africa and Ceylon.—The face is fhort and flat, having a transverse projection at the region of the eye-brows; the fur is harsh, and is reversed on the neck and fore-arms. It has a deep furrow in the middle of the scrotum, which hides the penis; the testicles increase in fize towards the autumnal season; the semale fundament is much swelled. This animal uses threatening gestures when angry, and chatters when pleased; salutes passengers after the manner of the Cassres, and sips its drink from the palm of the hand. The tusks, or canine teeth, are not proportionally larger than those of man; the face is flat; and the nails are flat and rounded like those of mankind. It walks erect on two feet, and is about a foot and a half high; of a mild disposition, and easily tamed. The female has the menstrual discharge, according to the ancients, and analogy forbids us to doubt the fact. The ears are like those of a man; the body is about the size of a cat; the general colour is an olive brown on the upper parts of the body, and yellowish on the lower.

5. Magot.-5. Simia inuus. 3.

Has no tail. The buttocks are naked; and the head is oblong.

Simia cynocephala, dog-headed ape. Briff. quad. 191.—Cynocephalus, 1. and 2. Alpin. Ægypt. 241. tab. 15. f. 1. et tab. 16.—Magot. Sm. Buff. viii. 117. pl. cclv. and cclvi.—Barbary ape. Penn. H. of Q. n. 76.—Simia inuus. Schreber, i. 71. tab. v.

Is found in Tartary, Arabia, Æthiopia, Barbary, Mauritania, all Africa, as far as the Cape of Good Hope, and in India.—Refembles very much the Simia fylvanus and cynocephalos, but has a longer fnout, and is of a paler colour than either; it must not, however, be confounded with the Pigmy, or former of these species. All the nails are rounded. There is a small portion of skin at the rump, which has the appearance of a tail; the cheeks are furnished with pouches; the tusks are proportionally longer than those of man, and the under part of the snout is turned up like the muzzle of a bull-dog; the face is downy; the hair on the body is of a greenish brown colour, and that on the belly of a whitish yellow. He walks sometimes erect, but oftener on all four; is from three, to three and a half feet high: The females menstruate, and are smaller than the males. It is fond of being in the open air, and by no means delicate, even in the climate of Europe; of an ugly aspect, melancholy, and dirty; chatters and grinds the teeth when irritated, or when hungry;

II

12

has prominent callosities on the buttocks. The Count de Buffon thinks that there are several varieties of this species, though he has only described one.

6. Hog-faced Ape. - Simia Suilla.

Has a blunt truncated nose, exactly resembling that of a hog. Penn. H. of Q. p. 172.

The engraving of this animal, given by Mr Pennant, is from a copy of a drawing in the British Museum, but along with which there is no account to enable us to trace its history. Mr Pennant supposes it may be the χοιζοπιθηκος, or Simia porcaria of Aristotle; as, at any rate, in his opinion, that animal must be an ape, and not a baboon, according to the Count de Busson's idea; because the πιθηκοι, or apes of Aristotle, had no tails, and the baboons have.—So far as I can pretend to judge of Mr Pennant's figure, it seems a bad representation of the Mandril, or Simia maimon, though, from respect to the authority of that great naturalist, it is here inserted as a distinct species of ape.—T.

** BABOONS.—PAPIONES.

Have short tails; a long face; a broad high muzzle; longish dog-like tusks, or canine teeth; and naked callosities on the buttocks. They are only found in the Old World; and are the Papiones and κυνακέφαλα of the ancients.

1. Maimon .- 6. S. Papio nemestrina. 4.

Has a short tail, and a thin beard: Is of a brown grey colour; the eyes are hazel, and the buttocks are naked.

Short tailed ape. Edwards, av. v. p. 8. t. 214.—Maimon. Sm. Buff. viii. 137. pl. cclxii.— Pigtailed baboon. Penn. H. of Q. n. 85.

Inhabits Sumatra.—Has cheek-pouches, callosities on the buttocks, and a naked curled up tail, from five to fix inches in length; the tusks are not proportionally longer than in man; the orbits of the eyes are prominent; the eyes are chefnut coloured, with black eye-lids; the face is naked and tawny, the muzzle very large, the nose flat, and the lips thin, with some stiff hairs, which are too short to form whiskers; the ears, hands, and feet, are naked and tawny; the hair on the body is of an olive black colour, and reddish yellow on the belly; the male organs are concealed under the skin. It sometimes walks erect, but mostly on all fours; and, when erect, is from two to two and a half feet high. The semale menstruates. This is a vivacious, gentle, tractable, and even careffing animal, without any of the immodesty and impudence of most baboons; and is very impatient of cold.

2. Little Baboon. - 7. S. Papio apedia. 5.

The tail is short: The thumbs of the hands stand close to the singers, having oblong nails on the singers, and rounded nails on the thumbs; the buttocks are hairy. Amoen. ac. I. 278.

Little baboon. Penn. H. of Q. n. 83.—Petit Papion. Sm. Buff. viii. 121. pl. cclviii.

Inhabits

14

which

Inhabits India.—The head is roundifh, with a projecting muzzle, and roundifh naked ears; the hair on the body is yellow, tipt with black; the face is brown, and almost naked, having only a few scattered hairs; the nails are all compressed and oblong, except on the thumbs and great toes, the nails of which resemble man; the tail is very short, being hardly an inch long; the body is about the fize of a cat.—It is uncertain if this animal should be considered as a distinct species, or only as a variety of the Simia sciurea?—Gmel.

3. Great Baboon. - 8. S. Papio Sphinx. 6.

The tail is short; the mouth is furnished with whiskers; the nails are sharp pointed and narrow; and the butfocks are naked.

Papio. Gesner, quad. 252. t. 253. Aldrov. dig. 260. Jonst. quad. 145. t. 61. f. 1. Raj. quad. 158. Brisl. quad. 192.—Papion. Sm. Bust. viii. 121. pl. celvii.—Simia sphinx. Schreber, i. 80. tab. vi.—Great baboon. Pen. H. of Q. n. 76. pl. xvii. and xviii.

Inhabits Borneo, according to Gmelin; Buffon and Pennant fay the hotter parts of Africa.—A ftrong, fierce, and libidinous animal, very apt to offer violence to women. The head is oblong, and refembles that of a dog, but more obtufe; the tail is fhort and erect; the buttocks are naked, and of a blood red colour; the cheeks have pouches; and there are large naked callofities on the buttocks, of a blood red colour edged with purple; the muzzle is thick and long; the ears are naked; the body is maffy and contracted, with thick, floort, ftrong limbs; the male parts are large, naked, flesh-coloured, and pendulous; the hair is long, bushy, of a reddish brown colour, and pretty uniform over the whole body. It walks oftener on all fours than erect; is from three to four feet high when franding on the hind feet. This is a brifk, ferocious, disobedient, mischievous, and nasty animal; and infolently falacious, even to the use of manustupration. The female menstruates, and brings only one young at a time, which she carries in her arms fixed to the pap. It lives chiefly on fruits, roots, and feeds, gathering in crowds to rob gardens and cultivated lands, which it does with great dexterity.—The Count de Buffon confiders this and the former species as only varieties of one species; which he thinks contains many varieties of different fizes, but agreeing in their general figure and manners. The individual feen by Mr Pennant, and referred by him to this species of the Linnæan fystem, was five feet high.-T.

4. Mantegar. - 9. S. Papio mormon. 36.

Has a short tail, and is thinly bearded; the cheeks are tumid, naked, of a bright blue colour, and obliquely surrowed; the buttocks are naked, and of a blood-red colour. Alstroemer, Act. Holm. 1766, vol. 27. p. 138.

Short tailed, and bearded ape, fimia, having sharp claws, and the top of the head surmounted with an erect tust of hair, like a mitre. Kramer, anim. austral. 310—Mantegar. Phil. Trans. n. 290.—Chloras. Breslauer Natur. Kunstgesch. xv. Vers. 177.—Tusted ape. Penn. H. of Q. p. 174. pl. xvi. f. 2.—Simia mormon. Schreber. i. 65. tab. viii.

Inhabits India.—The forehead is crowned with an erect pyramidal tuft of grey hair; the fnout is long and naked, with the nofe of a blood-red colour; the cheeks are naked, furrowed obliquely, and of a blue colour; the hair on the throat, and under part of the neck, is yellowifh, gray on the upper part of the neck, brownish gray on the back, and whitish on the belly; on the loins the skin,

15

16

37

which is of a violet colour, shines through a thin covering of hair; the buttocks have naked projecting callofities of a blood red colour; the middle of the belly is naked longitudinally, and of a blood red colour; the tail is very short; the claws of the singers and toes are sharpish and compresfed; those on the thumbs and great toes are flat and rounded.—I suspect that this is the same species with the Mandril, or Papio maimon, and that the pyramidal tuft on the fore head is the effect of art, for the purpose of imposition.-T.

5. Mandril .- 10. S. Papio Maimon. 7.

Has a short tail, and a thin beard on the chin; the cheeks are blue, and striped; and the buttocks are naked.

Cynocephalus. Gefner, quad. 93. t. 93. Cluf. exot. 370. Jonff: quad. t. 59. f. 4.—Dogfaced cercopithecus, having long hair on the fore part of the body, and the nose violet coloured and naked. Briff. quad. 214.—Mandril, or ribbed nose baboon. Sm. Buff. viii. 131. pl. cclix. cclx. cclxi.—Rib-nosed baboon. Penn. H. of Q. n. 77.—Simia maimon. Schreber, i. 74. tab. vii.

Inhabits Guinea.—Refembles the former in its blue, ribbed nofe, but wants the tuft of hair on the fore head. It is an ugly and difgusting animal, of a fullen deformed afpect, with a squat body, very large head, long muzzle, and flat nofe, perpetually diffilling a nafty fnot, which, with his tongue, he licks into his mouth. It has cheek-pouches, and callosities on the buttocks, which are of a blood red colour; the anus is confpicuous, and placed very high; the tail is not above two or three inches long; the tusks are much thicker and longer than in man; the muzzle is very thick, very long, and furrowed on each fide with deep longitudinal ribs or wrinkles; the face is naked, and of a bluish or violet colour; the ears, palms of the hands, and foles of the feet are naked; the hair is long, reddish brown on the body, and gray on the breast and belly: This species walks oftener erect than on four feet; and, when erect, is from four to four and a half feet high, fome individuals or varieties being still larger: The females menstruate: It is larger, and perhaps stronger, than the great baboon, or Papio fphinx, but more peaceable, and less ferocious; is found on the Gold Coast of Guinea, and other fouthern parts of Africa, where it is called Boggo by the negroes; it weeps and groans like mankind, and has a violent passion for women, whom it frequently attacks, and forces, when at a distance from relief.

6. Hoggish Baboon.—11. S. Papio porcaria. 48.

Has a short tail, and coloured buttocks; the head is like that of a hog, with a naked fnout; the body is of an olive brown colour; the nails are sharp and compressed. Bodaert. Naturf. 22. p. 17. t. 1. 2.

Κειροπιθηκος. Aristotelis.

Inhabits Africa, and is about three feet and a half high when standing erect.-This, in all probability, is the fame animal with the hog-faced ape, adopted from Pennant as the eighth species of the fub-genus ape in this edition. -T.

7. Wood Baboon. - S. Papio sylvicola.

The face, hands, and feet, are naked, black, and smooth, with white nails. Wood baboon. Penn. H. of Q. n. 78. tab. xix.—Leverian muf.

19

20

23

22

Inhabits Guinea, where it is called man of the woods by the English.—Has a long dog-like face, covered with a fine grained, finooth, gloffy, black fkin; the hands and feet are naked, black, and gloffy, like the face, and have white, flat, rounded nails; the body, head, limbs, and tail, are univerfally covered with longish close fet hair, elegantly mottled with black and tawny; the ears are almost hid in the fur. It is about three feet high, when erect, and the tail is not three inches long.

PRIMATES.

8. Yellow Baboon.—S. Papio variegata.

Of a bright yellow colour, mottled with black; having a long black naked face, and the back of the hands are covered with hair. Leverian Muf. Penn. H. of Q. n. 79.

This animal firongly refembles the wood baboon, except in fize, and having hairy hands: The face is long, black, and 'naked; the ears are hid in the fur; over the eyes are feveral long dufky hairs; the backs of the hands are covered with hair. It is about two feet high, and is probably a native of Africa; but its place, age, and history, are obscure.

9. Cinereous Baboon.—S. Papio cinerea.

Has a dusky face, with a pale brown beard; the body and limbs are of a cinereous brown colour; and the crown of the head is mottled with yellow. Leverian Mus. Penn. H. of Q. n. 80.

Its place and history are uncertain; but it probably comes from Africa; and is about two feet high.

10. Blue-faced Baboon. - S. Papio livea.

Has a bluish face; two very broad flat fore-teeth; and a pale brown beard. Leverian Mus. Penn. H. of Q. n. 81.

This animal is about three feet high; has long hairs over the eyes; and a tuft of hair behind each ear; the hair is black, mixed with cinereous, and dull rufty brown. Its place and hiftory are unknown.

11. Brown Baboon. - S. Papio platypygos.

Has a dirty white face, surrounded with short straight hairs; and a broad large muzzle. Penn. H. of Q. n. 82. pl. xx. fig. 2.

Simia platypygos. Schreber, 89. tab. v. B.

The place and history of this animal are uncertain.—The upper parts of the body are brown, andthe under parts ash coloured; the tail is about four inches long, tapers to a point, is almost bare, and quite naked on its under part. - Mr Pennant refers to this species an animal which he inserted in the first edition of his work on quadrupeds, under the name of New baboon.

12. Crested Baboon. -S. Papio cristata.

Has very long and dishevelled hair on the crown of the head and cheeks. Leverian Mus. Penn. H. of. Q. n. 84.

24

25

Inhabits Africa.—Is about two feet high; and the tail, which is flender and taper, is about feven inches long; the body and limbs are covered with long, black hair; that on the head and cheeks is long, dishevelled, and of a dusky colour; the breast is whitish; the face, hands, and feet, are black and naked.

*** MONKEYS.—CERCOPITHECI.

Have long tails, which are not prehensile; the under parts of their cheeks are furnished with pouches, in which they can keep their victuals; the partition between the nostrils is thin, and the apertures are, like those of man, placed in the under part of the nose; the buttocks are naked, and provided with callosities. These animals, which are never found native in America, are the Cercopitheci, and κυβοι, of the ancients.

1. Dog-tailed Monkey. 12.—S. Cercopithecus cynosuros. 37.

Has a long tail and no beard: The face is long, with a footy coloured fore-head, and a whitish band over the eyes; the male parts are highly coloured; the nails are convex. Scopoli delic. flor. et faun. Insubr. P. 1. p. 44. tab. xix.

This animal is about the fize of a middling dog, being near two feet high when erect; it is deceitful, reftlefs, and libidinous. Its country is unknown.

2. Tartarin. - 13. S. Cercopithecus hamadryas. 8.

Has a long tail, and naked blood-coloured buttocks; the ears are hid in the hair; the nails are somewhat pointed.

Egyptian ape, having a long tail, and naked prominent buttocks. Haselquist, it. 189.—Ape, simia, having the upper part of the ears very hairy. Alpin. hist. nat. Ægypt. 242. tab. 17.—19.—Cynocephalus. Gesner, quad. 252. f. p. 253.—Dog-faced baboon. Penn. H. of Q. n. 86.—Simia hamadryas. Schreber, i. 82. tab. x.—Le Tartarin. Belon. portrait. 102.

Inhabits Africa, Arabia, and Afia.—The tail of this species is scarcely so long as the body; long hair hangs down on each side, from the ears, like a flowing wig; the buttocks are naked, and of a blood-red colour: This species is about five feet high when erect; the head and face resemble a dog, the muzzle being long, thick, strong, and prominent, with a smooth red nose; the face is naked; and the ears are pointed, and hid in the hair; the hair on the sides of the head, and on the body, as far as the waist, is long and shaggy; on the top and hind part of the head; the limbs, and the body below the waist, it is short; the nails of the singers are flat, but those of the toes are sharp and narrow.

B. Ursine Tartarin.—S. Cercopithecus hamadryas ursinus.

That part of the head immediately above the fore head is prominent, and terminates in a ridge.

Urfine dog-faced baboon. Penn. H. of Q. n. 86. s. Kolben. ii. 120. La Caille, 296.

28

Inhabits the Cape of Good Hope.—This species, or variety as Mr Pennant considers it, has a great head, long thick nose, and short ears; the crown is covered with long upright hairs; the part of the head immediately above the fore-head is prominent, and terminates in a ridge; the whole body is covered with long dusky hair, so that, at first fight, the animal appears like a young bear; the body is thick and strong, with short limbs; is four feet high when sitting, and as tall as a middle fized man when erect; the tail is half the length of the body, straight at the beginning, and arched at the end; the nails are flat and rounded; the buttocks are of a bloody red colour. The animals of this species are very numerous, and go in large troops in the mountains, where they set up an universal and horrible cry, for about a minute, when they see any one approach, and then conceal themselves in their fastnesses, keeping a profound silence: They sometimes descend into the plains, to pillage gardens, and then place centinels to guard against surprise.

3. Lowando.—14. S. Cercopithecus veter. 9.

Has a long tail, and is bearded: The body and limbs are white, and the beard is black. Bearded white cercopithecus, with a black beard. Briff. quad. 147.—White or hoary ape, with a flowing black beard. Raj. quad. 158.—Lowando, or Elwandu. Sm. Buff. viii. 133.

β. White-bearded Lowando.—S. Cercopithecus veter albibarbatus.

This variety resembles the other in every thing, except in having a white beard. Sm. Buff. viii. 133.

Inhabits the Island of Ceylon.—This animal has all the characters of a baboon in figure and difpositions; it is wild and ferocious, and so mischievous that, when not tamed, it must be kept in an
iron cage, where it is frequently agitated with vast fury; but, when taken young, it may be tamed easily: In a state of liberty it is extremely wild, and keeps always in the woods; is violently fond of
women, and so strong as to ravish them, when found alone, and often injures them so as to prove
fatal. It has cheek pouches, and callosities on the buttocks; the tail is seven or eight inches long;
the tusks are longer and larger than in man; the muzzle is thick and long; the head is environed
with a broad mane, and a large beard of white or black coarse hairs; the body is longish, and thin
behind: It walks oftener on all sours than erect, and is from three to three and a half feet high:
The semales menstruate.

4. Wanderu - 15. S. Cercopithecus silenus. 10.

Has a long tail, and is bearded: The body and flowing beard are both black.

Bearded black cercopithecus, having a bushy beard all round the face. Briss. quad. 209.—Ape, with a flowing beard, of the face of the large dog-faced kind. Alpin. Ægypt. 242. t. 21.

29 β. White-bearded Black Wanderu.—S. Cercopithecus silenus albibarbatus.

Resembles the former, but the beard is white.

Simia filenus, having a black body and limbs, and a bufhy white beard. Lin. Syft. nat. edit. x. p. 26.—Bearded black cercopithecus, having a flowing hoary beard. Raj. quad. 158.—Ouanderou or Wanderu. Sm. Buff. viii. 133. pl. cclxiii.—Lion-tailed baboon. Penn. H. of Q. n. 88.—Simia filenus. Schreber, i. 88. tab. xi.

30

31

32

33

Inhabits Ceylon and the rest of India.—The two last species, the Lowando and Wanderu, are confidered only as varieties of the fame species, differing chiefly in the colour of their bodies and beards, and as Baboons, both by Mr Pennant and the Count de Buffon; and the description gives by the latter naturalist may therefore be applied to all the four varieties .- T.

PRIMATES.

v. Tie-tie Wanderu. - S. Cercop, silenus Tie-tie.

Is about two feet high, and as black as jet, with a long white beard.

Variety & of the Long-tailed Baboon. Penn. H. of Q. n. 88. &.-Little bearded men. Barbot, voy. Guinea, 212. Bosman 242.

Inhabits Guinea.—This species is much valued by the negroes on account of its beautiful skin, which fells for eighteen or twenty shillings, being used to make caps for their Tie-ties or public criers.

S. Purple-faced Wanderu. S. Cercop. filenus purpuratus.

Has a great triangular white beard, which is short and pointed on the chin, and extends on each fide, like wings, far beyond the ears.

Purple-faced monkey. Penn. H. of Q. n. 89. pl. xxi. fig. 2.

Inhabits Ceylon.—This is a very harmless animal, which lives in the woods, feeding on leaves and buds of trees; and, when taken young, is eafily tamed: The body is black, and the face and hands purple; the tail is much longer than the body, and is terminated by a dirty white tuft.

5. Malbrouck.—16. S. Cercopithecus faunas. 11.

Has a long tail, and is bearded: The tail is bushy at the extremity.

Bearded cercopithecus, of a white colour on the belly, having a hoary pointed beard, and the tail bushy at the extremity. Briss. quad. 209.—First bearded cercopithecus. Clus. exot. p. 371.— Malbrouk. Sm. Buff. viii. 148. pl. cclxviii.—Simia faunus. Schreber, I. 90. tab. xii.

Inhabits Bengal.—This species has cheek-pouches, and callosities on the buttocks; the tail is nearly as long as the body and head; and it is a mistake of Clusius that it terminates in a tuft; the face is of a cinereous grey colour, with a large muzzle, and large eyes, which have flesh-coloured eyelids, and a grey band cross the fore-head in the place of eye-brows; the ears are large, thin, and flesh-coloured; the upper parts of the body are of a uniform yellowish brown colour, and the lower of a yellowish grey: It walks on all fours, and is about a foot and a half from the muzzle to the extremity of the tail. The females menstruate.

6. Macaque. 17. S. Cercopithecus cynomologus. 15.

Has no beard: The nostrils are thick and divided; the tail is long and arched; and the buttocks are naked.

Cercopithecus cynocephalus, having thick, bifid noftrils, and naked buttocks. Briff. quad. 213.— Larger cercopithecus from Angola. Raj. quad. 155.—Macaque. Sm. Buff. viii. 140. pl. cclxiv.— Hare-lipped monkey. Penn. H. of Q. n. 91.—Simia cynomologus. Schreber, I. 91. tab. xiii. Vol. I. Inhabits

35

35

Inhabits Africa.—This animal has cheek-pouches, and callofities on the buttocks; the body and head are about eighteen or twenty inches long, and the tail is of the fame length; the head is large; the face is naked, livid, and wrinkled, with a very thick muzzle; the ears are covered with hair; the body is fhort and fquat; and the limbs are thick and fhort; the upper parts of the body are of a greenish ash colour, the breast and belly are yellowish grey: It walks sometimes erect. Of this species there appear to be varieties much larger than the one here described, and others much smaller. Its dispositions are mild and tractable; but it is dirty, ugly, loathsome, and disgusting.

7. Dog-headed Monkey.—18. S. Cercopithecus cynocephalos. 16.

Has no beard, and is of a yellow colour; the muzzle is long; the tail long and ftraight; and the buttocks naked.

Dog-headed cercopithecus, having its hair of a mixed greenish and yellowish colour. Briss. quad. 213.—Cercopithecus. Jonst. quad. t. 59. f. ult.

Inhabits Africa.—This animal has a ftrong refemblance to the Simia inuus, or Magot baboon, except in having a long tail, while that of the formerly described animal is short.

8. Spotted Monkey .- 19. S. Cercopithecus Diana. 17.

Has a beard, and a long tail: The hair on the fore-head and the beard are pointed. Act. Stockholm. 1754, p. 210. tab. 6.

Bearded cercopithecus, of a brown colour, fprinkled with fmall white fpots, and having a white beard. Briff. quad. 148. n. 23.—Bearded cercopithecus from Guinea. Raj. quad. 159.—Second bearded cercopithecus. Cluf. exot. 371.—Spotted monkey. Penn. H. of Q. n. 92.—Simia diana. Schreber, I. 94. tab. xiv.

Inhabits Guinea and Congo.—When young, this animal is exceedingly playful; it falutes paffengers by nodding with its head, and, when angry, it chatters its teeth, holding its mouth wide open; when full grown, the tufks grow long, and the animal becomes ill tempered and fond of biting; it keeps its bed or neft very clean; when called, anfwers greek; is about the fize of a middling cat; of a black or dark brown colour, fpotted with white; the back is of a rufty brown colour, the inner parts of the thighs pale red, the throat and breaft white; the beard is black at its upper part, the lower part is white, long, and pointed, and refts on a fatty protuberance; the hair on the fore-head is white, erect, and pointed, having a white transverse line, or band, in form of a crescent; a white line passes along the outside of each thigh from the anus to the knee; the tail is long, straight, and of a black colour, as are the face, ears, belly, and feet.

9. Green Monkey .- 20. S. Cercopithecus sabaeus. 18.

Of a yellowish green colour, and beardless: The tail is long and ash-coloured; the face black, and the buttocks naked.

Yellowish ash-coloured cercopithecus, having the cheeks surrounded with long white hairs. Briss. quad. 145. n. 17.—Cercopithecus from St Jago. Edw. av. v. 210. t. 215.—Callitrix. Sm. Buss. 160. pl. cclxxiii.—Green monkey. Penn. H. of Q. n. 95.

38

39

Inhabits the Cape de Verd islands, the Cape of Good Hope, and the neighbouring countries in the fouth of Africa; likewife in Senegal, Mauritania, and India.—This animal is much of the same size with the Simia diana and Aygula, being as large as a middle fized cat; the upper part of the body is of a mixed ash, green, and yellowish colour; the throat, breast, belly, and thighs, are white; the face is naked and black; the temples are covered with long, reversed, yellowish-white hairs; the eye-brows are black and hairy; the tail is white, straight, and much longer than the head and body; the feet are ash-coloured; the nails, on the toes, are rounded, and those on the singers are oval; it has cheek-pouches, and callosties on the buttocks; the head is small, with a long muzzle; instead of eye-brows, a band of black hairs runs along the bottom of the front; the body is of a vivid green colour, mixed with a little yellow: It walks on four feet, and is about sisteen inches from the nose to the origin of the tail: The females menstruate.

10. Moustache. - 21. S. Cercopithecus cephus. 19.

Has a beard on the cheeks; the crown of the head is yellowish; the feet are black; and the tip of the tail is of an ash colour.

Blackish cercopithecus, having long yellowish-white hair on the cheeks and ears, and a bluish mouth. Briss. quad. 206.—Other bearded cercopithecus from Guinea. Raj. quad. 156.—Moustache. Sm. Buff. viii. 163. pl. cclxxiv. Penn. H. of Q. n. 97. Simia cephus. Schreber, i. 102. tab. xix.

Inhabits Guinea.—This is about the fame fize with the Simia diana: The upper parts of the bo dy are of a brown colour, and the under parts of a bluish white; the hair on the head is whitish and erect, having a white semilunar transverse line on the eye-brows; the upper eye-lids are white; the hair on the cheeks sheds outwards; the mouth is bluish; the body is short and squat; the lips below the nose are of a bright white, and the rest of the face is of a blackish or dirty blue colour, and naked, except a border of black hairs which surrounds the margin of both lips; there are two large tusts of yellow hairs under the ears, one on each side, in form of large whiskers or mustachios, which give the animal a singular appearance, and from which the trivial or specific name is derived; there is likewise a tust of curled hair on the top of the head; it has cheek-pouches, and callosities on the buttocks; walks only on all fours, and is about eighteen inches in length from the muzzle to the origin of the tail, which is an inch or two longer. The body is of a greenish ash colour, and the belly and breast of a whitish ash: The female menstruates.

11. Mangabey.—22. S. Cercopithecus aethiops. 38.

Has a white erect fore-top, and a white semilunar arch on the fore-head; is beardless. Lin. Syst. nat. ed. x. p. 28. n. 14.

Mangabey. Sm. Buff. viii. 154. pl. cclxx.—White eye-lid monkey. Penn. H. of Q. n. 96.—Simia aethiops. Schreber, i. 105. tab. xx. xxi.

β. Collared Mangabey. - S. Cercopithecus aethiops torquatus.

Has a broad collar of white hair which furrounds the neck and cheeks. Sm. Buff. viii. 154. pl. cclxxi.

I 2 Inhabits

Inhabits Madagascar.—These two animals are varieties of the same species, and were both sent to the Count de Bufson, as apes or monkeys, from Madagascar: They both have cheek-pouches, and callosities on the buttocks; they have a thick, broad, long muzzle, and a prominent ring round the eyes; but their characteristic mark of difference from other monkeys is, that the eye-lids are naked, and of a very splendid white colour; the eye-brows consist of stiff, crisped hair; and the ears are black, and almost naked: They walk on all sours; are nearly a foot and a half long from the muzzle to the rump, and the tail is about the same length, is carried arched over the body, and is covered with long bushy hair: The semales menstruate. In the first variety, the hair on the head, neck, and upper parts of the body, is of a yellow brown colour, and that on the belly is white or grey: In the collared Mangabey, the hair on the head and body is lighter coloured; and this variety is distinguished by a broad collar of white hair which surrounds the neck and cheeks, in the form of a beard.

40

12. Egret.—23. S. Cercopithecus aygula. 21.

Of a grey colour, and almost beardless; having an erect tust of hair on the top of the head, standing longitudinally backwards. Ofbeck. iter. 99.

Black ape, Simia, of a middle fize. Edw. av. 221. t. 311.—Egret. Sm. Buff. viii. 140. pl. cclxv. Penn. H. of Q. n. 101.—Simia aygula. Schreber, i. 106. tab. xxii.

Inhabits India, and chiefly the island of Java.—The upper part of the body is of a grey colour, much like that of a wolf; the throat, breast, and belly, are whitish; the tail is longer than the body, and is of a pale ash colour; the face is of a dirty white, naked, and slattish; the nose is slat, very short, at a distance from the mouth, and has two furrows on the upper lip; the cheeks have a thin beard, which is shed backwards; the fore-head, above the eyes, is protuberant, and has hairy eye-brows; the feet are black, and have short membranes which connect the under parts of the toes with each other; the nails on the thumbs and great toes are rounded; those on the toes and singers are oblong; the ears are pointed; a curved ridge of hair runs from the ear, on each side, behind the eyes to the base of the lower jaw; there is likewise a longitudinal seam or ridge of hair on each fore-arm. The Count de Busson considers this animal as a variety of the Macaque, or Simia Cynomologus, No. 22.; from which, according to him, it only differs in being about one third less in all its dimensions; in the peculiar form of the crest, or egret, from which the trivial name is derived; in the fore-head hair being black instead of greenish, which it is in the Macaque; and in the tail of the Egret being proportionally longer.

4 I

β. Monea. - S. Cercopithecus aygula Monea.

Dr Gmelin, the learned editor of the System of Nature, adds, that he has seen a monkey of this species, which he considers as a variety: The head was more rounded, the face less black, and the colour of the body less on the rusty brown: This animal, while chained, was continually jumping about.—Mr Pennant, in his History of Quadrupeds, No. 102. describes a monkey from Java under the name of Monea, as being tusted like the Egret, having the upper parts of the body of a rusty brown colour, and the under parts whitish. Both of these are probably either the same, or slightly differing varieties of the Egret.—T.

43

44

45

46

13. Nodding Monkey .- 24. S. Cercopithecus nictitans. 23.

Is of a black colour, mottled with paler spots, and having a white nose: The thumbs are very short; the buttocks are covered with hair; and the chin is beardless.

Another cercopithecus from Angola, of a black colour, mottled with blackish grey spots all over the body, and having a white nose. Marcgr. Bras. 227.—White-nosed monkey. Penn. H. of Q. n. 98.

B. Bearded Nodding Monkey .- S. Cercopithecus niclitans barbatus.

Exactly like the former, except that it has a long white beard on the chin. Penn. H. of. Q. n. 19.1.

Inhabits Guinea. —This is a playful animal, which continually nodded with its head: It was feen by Dr Alftraemer, who has given a description, in the possession of Professor Burman of Amsterdam: It is nearly of the same size with the Pigmy, or Simia sylvanus; has a small mouth, hairy face, yellow irides, and is naked round the eyes; the lips and chin are whitish; the tail is black, straight, cylindrical, and longer than the body; the feet are black, and the thumbs are not longer than to the first joint of the fore-singers.

14. Rillow. - 25. S. Cercopithecus sinicus. 39.

The hair on the top of the head is parted circularly, and lies flat, shading the whole head: Has no beard. Mantiss. pl. ii. p. 521.

Chinese bonnet. Sm. Buff. viii. 148. pl. cclxix.—Rillow. Knox's Ceylon. 26.—Chinese monkey. Penn. H. of Q. n. 104.

B. Bonneted Rillow.—S. Cercopithecus sinicus pilentus.

The hair on the top of the head stands erect, and forms the appearance of a round-black bonnet: The body is of a brown colour; the legs and arms are black: Is about the size of a small cat. Penn. H. of Q. n. 105.

Inhabits India.—The tail is much longer than the body; the nails of the thumbs and great toes are rounded, those on the fingers and toes are oblong; the muzzle is long, smooth, and of a dusky colour; the upper parts of the body are of a pale brown colour mixed with yellow, and the under parts are whitish.—This animal is probably a variety of the Malbrouck, or Simia faunus, from which it differs by having rather a longer tail, and by the particular disposition of the hair on the top of the head, which lies flat, and is parted circularly like a Chinese bonnet, from which circumstance-its vulgar name is derived.

15. Douc.—26. S. Cercopithecus nemaeus. 40.

Has a beard on the cheeks, and a white tail. Mantiff. plant. ii. p. 251.

Ash-coloured cercopithecus, having the cheeks surrounded with long, yellowish-white hairs, and a purplish-brown collar round the neck. Briss. quad. 146.—Douc, or Sifac. Sm. Buff. viii. 168. pl. cclxxvi.—Cochin-China monkey, or Sifac. Penn. H. of Q. n. 107.—Simia nemaeus. Schreber, i. 110. tab. xxiv.

Inhabits Cochin-China and Madagafcar.—Is about two feet high, according to Dr Gmelin, though the Count de Buffon fays that this species is from three and a half to four feet in height; and Mr Pennant informs us that he is as tall as a man. The skin of the face and ears is almost scarlet, with a band of a darker brownish colour on the fore-head; and these parts have a blackish hair or down; the face is furrounded with hair of a whitish colour, intermixed with yellow; the collar, on the upper part of the neck, is of the same colour with the band on the fore-head; the shoulders, upper parts of the arms and thighs, and the toes, are black; the hands and groins are whitish; and the feet and legs, as far as the knees, are brown: The Bezoar of the Ape is chiefly procured from this species. This animal is allied to the monkeys by the length of the tail, to the baboons in fize, and to the apes by the flatness of the face; and seems to form a shade between the monkeys and sapajous, as, like the latter, the buttocks are hairy, and the muzzle Lat; but, besides the circumstance of this fpecies being an inhabitant of the old world, the tail not being prehenfile, and other effential characters, feparates the Douc from the fapajous, and fixes the species among the monkeys. There are no callosities on the buttocks; the tail is not so long as the head and body; the face is red, and covered with a reddish down; the ears are of the same colour, and naked; the lips and orbits of the eyes are dark brown, or black; there is a purplish-brown collar round the neck; and a whitishvellow beard furrounds the cheeks; the top of the fore-head, and upper part of the arms, are black; the fore-arms, and under part of the fore-head, whitish; the top of the head and the body are grey; the breast and belly yellow; the lower parts of the legs are whitish; the upper part of the thighs black; and the tail, under part of the loins, and infide of the thighs at the top, are whitish. It

PRIMATES.

16. Monina *. - 27. S. Cercopithecus Mona. 41.

Has a prominent, semilunar, whitish-grey, arch over each eye; and is bearded.

walks as often on two feet as on all fours. It is uncertain whether the females menftruate.

Cercopithecus, covered with variegated black and tawny hair; having black feet, and an afhcoloured tail. Briff. quad. 141.—Mona. Sm. Buff. viii. 156. pl. cclxxii.—Varied monkey. Penn. H. of Q. n. 106.—Simia mona. Schreber, i. 97. tab. xv.

Inhabits Morocco, and the warmer parts of Asia.—This is the most common of the monkeys, and agrees best of any with the climate of Europe: It is found in Barbary, Persia, Arabia, and many places of Afia, where it was known to the ancients under the name of Kebos, Cebus, or Coephus, on account of the variety of its colours. The names Mone, Mona, Monina, and Mounina, are used in the Moresk, Spanish, and Provençal languages, for all long tailed monkeys; and from these the barbarous Latin Monichi, and English Monkey, seem derived. This species has cheek-pouches, and callosities on the buttocks; is about a foot and a half from the muzzle to the rump, and the tail is about two feet long; the head is finall and round, the face is a bright tawny brown, the muzzle thick and fhort; there is a kind of grey beard, formed by the hairs on the throat, and the cheeks are furrounded with a beard of white, yellow, and black, hairs interspersed; the hair on the top of the head is a mixture of yellow and black; there is a grey band over the fore-head; and a black

^{*} I have, in general, preferred fingle names for the feveral species, as much as possible; using the appellations given in the countries where the animals are found, in imitation of the Count de Buffon: The name he gives to this species is Mona; but, as this comes rather too near Monea, which is formerly employed for a variety of the Egret, No. 41. I have used, for this species, a synomime, given likewise by Buffon .- T.

49

50

51

black band extends from the eyes to the ears, and thence to the shoulders and arms; the hair on the body is a reddish black; the belly and insides of the thighs are whitish; the outside of the legs and feet are black; the tail is greyish-brown, with two white spots on each side of the rump: It walks on all sours, and the semales menstruate. One kept by Busson, for several years, was very tractable, and became much attached to his acquaintance, but was shy, and even ill tempered, to strangers; it eat of every thing, roasted meat, bread, and particularly fruits, and searched for spiders, ants, and other insects.

17. Patas. -28. S. Cercopithecus ruber. 42.

Has a beard on the cheeks: The top of the head, back, and tail, are of a blood-red colour.

Patas, or red monkey. Sm. Buff. viii. 144. pl. cclxvii.—Red monkey. Penn. H. of Q. n. 103.—Simian rubra. Schreber, i. 98. tab. xvi.

a. Black-banded Patas. - S. Gercopithecus ruber nigro-fasciatus.

Has a black band over the eyes, and a yellow beard.

B. White-banded Patas. -S. Cercopithecus ruber albo-fasciatus.

Has a white band over the eyes, and a white beard.

Inhabits Senegal, Congo, and the other hot parts of Africa.—These two animals are only varieties of the same species: Both have cheek-pouches, and callosties on the buttocks; the top of the head is flat, and the muzzle, body, and legs, are long; in both, the hair on the upper parts of the body is of a brilliant red colour, so vivid as to appear painted; and that on the under parts, as the throat, breast, and belly, is of a yellow grey colour; both have long hair under the chin and round the cheeks, forming a fine beard, which is yellow in the first variety, and white in the second. In all probability there are other varieties of this species, some of them a good deal larger than those now described. In the first variety, a black line extends over the eyes from ear to ear; and in the second this line is white. This species walks mostly on all sours, and is about a foot and a half, or two feet, in length from the muzzle to the origin of the tail, which is longer than the body. The semales menstruate.

18. Talapoin .- 29. S. Cercopithecus Talapoin. 43.

Has a beard on the chin and cheeks: The ears, nose, and soles of the feet, are black. Talapoin. Sm. Buff. viii. 165. pl. cclxxv. Schreber, i. 101. tab. xvii. Penn. H. of Q. n. 99.

Inhabits India.—This species is about a foot long from nose to rump, and the tail is near eighteen inches in length; it has cheek-pouches, and callosities on the buttocks; is of a beautiful figure, and brownish green colour, with the tip of the nose black.

B. Black Talapoin. -S. Cercopithecus Talapoin niger.

Like the former, but of a black colour. Edw. gleanings, 221. Bosman's voyage, 258.

53

54

55

The head, back, arms, legs, and tail, are covered with longish, loose, dusky, black hair; the breast, belly, and insides of the thighs, are of a dusky sless colour, and almost naked; the head is roundish; the skin of the face is tawny, and thinly covered with black hair; the ears are like those of man; the four paws are covered with soft black skin, having very little hair. This variety is about the fize of a large cat, and is gentle and playful in its manners.

19. Agile Monkey.—30. S. Gercopithecus petauristus. 44.

Is bearded: The back, upper part of the tail, and outer fides of the legs, are of a very dark blackish olive colour; and the face is black, having a triangular white spot on the nose.

Blanc-nez. Allamand, ed. of Buffon, xiv. p. 141. t. 39.—Simia petaurista. Schreber, i. 103. tab. xix. B.

Inhabits Guinea.—A gentle and docile animal, about thirteen inches long from the muzzle to the rump, and having a tail near twenty inches long.

20. Negro Monkey.—31. S. Cercopithecus maurus. 45.

The cheeks, and the whole face, are bearded, except the eye brows, the space between the eyes, and the point of the nose: The body is of a reddish-brown colour.

Middle fized black monkey. Edw. av. 3. p. 221. t. 311.—Small ape, fimiolus, from Ceylon. Scha, thef. i. 77. t. 48.—Negro monkey. Penn. H. of Q. n. 100.—Simia maura. Schreber, i. 107. tab. xxii. B.

Inhabits Ceylon and Guinea.—This is an active little animal, about the fize of a fmall cat, being only feven inches high, when fitting, and the tail is longer than the body: It has a round head, with a fharp muzzle, and a tawny flesh-coloured face, having a few scattered black hairs; the body, limbs, and tail, are black and hairy; the breast and belly are of a tawny flesh-colour, and almost naked; the feet and hands are black, naked, and soft.—This species seems to agree very much with the black variety of Talapoin, No. 51.; insomuch that there can be little doubt of both descriptions referring to the same animal, or at least to different varieties of the same species.—T.

21. Roloway.—32. S. Gercopithecus Roloway. 46.

Has a beard: The head, back, and outfides of the hands and feet, are black; the infide of the hands and feet, the belly, and a circular beard round the triangular face, are white.

Palatine, or roloway. Allamand, ed. of Buffon, xv. 77. t. 13. Pen. H. of Q. n. 90.

Inhabits Guinea.—A gentle animal, about a foot and a half from muzzle to rump, with a tail nearly of the fame length; the face is triangular, black, naked, and is bordered all round with hairs; and the chin is provided with a long forked beard.

22. Long-nosed Monkey .- S. Cercopithecus nasuus.

Has a long, flender, naked, and flesh-coloured, projecting face and muzzle, and no beard.

Penn. H. of Q. n. 93. pl. xxiii. fig. 1.

It's

57

_58

59

60

Its place is uncertain, but believed to be from Africa.—The face is long, naked, and flesh coloured, with a projecting slender muzzle; and the head is covered with thick longish hair, which falls backwards, through which the ears, which are small, pointed, and somewhat naked, project; the hair on the upper part of the body and limbs is long, and of a pale, rusty brown colour, mixed with black, as is the hair on the head; that on the breast and belly is of a light ash colour; when sitting, the height is about two feet, and the tail is very long: This is a good natured animal, having a face very like that of a long nosed dog, but is very little known: The description is taken from a drawing by Mr Paillou, a painter of animals.

23. Prude.—S. Cercopithecus capistratus.

Under this name Mr Pennant has figured a long tailed and long visaged monkey, which he thinks may possibly be related to the former animal, but of which he gives no description. Penn. hist. of quad. p. 187. pl. 23. f. 2.

24 Yellowish Monkey .- S. Cercopithecus luteolus.

Has very large tusks; large, black, naked ears, and long pale yellow locks on the cheeks shed backwards. Leverian Mus. Penn. hist. of quad. n. 94.

Is supposed to inhabit Guinea.—The face is black, having long hairs above each eye; the throat and breast are of a yellowish white; the crown of the head, upper part of the body, arms, and thighs, of an ash colour, mixed with yellow; on the lower part of the arms and legs, and on the tail, the ash colour prevails; the hair on the body is coarse; and the tail is as long as the body: It is about the fize of a fox.

25. Tawny Monkey. - S. Cercopithecus fulvus.

Has long tulks in the lower jaw; the vifage is long and flesh coloured, with flesh coloured ears, and a flattish nose. Penn. hist. of quad. n. 108.

Inhabits India.—This is a very ill natured animal, about the fize of a cat; it was lately in the poffeffion of Mr Brook, an animal merchant and exhibitor in London: The upper parts of the body are covered with a pale tawny coloured fur, which is ash coloured at the roots; the hinder part of the back is orange coloured, the legs ash coloured, the belly white, and the tail shorter than the body.

26. Greenish Monkey.—S: Cercopithecus viridens.

Has a black face, long black hairs on the cheeks, a pale green coloured body, grey limbs, and a dusky coloured tail. Penn. hist. of quad. p. 197.

Its place unknown. - This animal, which Mr Pennant confiders as a variety of the Tawny Mon-key, was communicated to that celebrated naturalist by Mr Paillou.

27. Hircine Monkey .- S. Ccrcopithecus hircinus.

Has a naked blue face, obliquely ribbed; a long, goat-like beard, and a long tail; the body and limbs are of a deep brown colour.

Goat monkey. Penn. hift. of quad. n. 109.

Vol. I. K

62

The place and hiftory of this animal are unknown.—The above description is taken from a drawing, in the British Museum, by Kikius, an excellent painter of animals.

28. King Monkey .- S. Cercopithecus regalis.

Has no thumb on the hands; the head, cheeks, throat, and shoulders, are covered with long, slowing, coarse hairs. Leverian Mus.

Full-bottom monkey. Penn. hift. of quad. n. 110. pl. xxiv.

Inhabits the forests of Sierra Leone in Guinea, where it is called Bey, or King Monkey.—It is above three feet high when erect: The head is small, with a short, black, naked face; and the head, cheeks, throat, neck, and shoulders, are covered with long, coarse flowing hairs, of a dirty yellowish colour, mixed with black, and resembling a full bottomed wig; the body, arms, and legs, are covered with short hairs, of a fine glossy black colour; the hands are naked, and have no thumbs; the feet have five very long slender toes, which are armed with narrow, pointed claws; the tail is very long, and is covered with snow white hairs, having a tust at the end; the body and limbs are very slender: Its skin is held in high estimation by the negroes for making pouches and gun cases.

29. Bay Monkey. - S. Cercopithecus badius.

Has no thumbs on the hands; the tail is very long, slender, and black; and the body and limbs are very slender. Leverian Mus. Penn. hist. of quad. n. 111.

Inhabits Sierra Leone in Guinea, from whence this and the former species were brought over to Britain, and presented to Sir Ashton Lever's museum.—The body and limbs are very long and meagre; with a very long, slender, black tail; the crown of the head is black; the back of a deep bay; the outside of the limbs are black; the cheeks, under part of the body, and the legs, are of a very bright bay colour; the feet have sive long toes on each.

63 30. Annulated Monkey.—S. Cercopithecus fuscus.

The tail is shorter than the body, and is annulated with alternate rings of darker and lighter brown. Penn. hist. of quad. n. 112.

Its place and hiftory unknown.—It has a flat face, with long hairs on the fore-head and cheeks; the upper parts of the body and limbs are of a tawny brown, and the belly of an afh colour; the hands are black and naked. Mr Pennant defcribes this species from a drawing in the British Mufeum, and refers it to the Simia apella of Linnæus, which it cannot possibly be, as that species has a long prehensile tail, and belongs to the subgenus of Sapajous, under which it is arranged in this edition, by the trivial name of Capuchin; besides, Mr Pennant has inserted, in his excellent work, another species of Sapajou, which he names Weeper, and refers to the same Linnæan species.—T.

**** SAPAJOUS.—SAPAJI.

Have prehenfile tails, and no cheek pouches.

These animals have long tails, which, at the extremity, is generally deprived of hair on the under fide, and covered with a smooth skin; this part they can fold, extend, curl up, and unfold at pleafure;

65

fure; by which they are enabled to hang upon branches, or to lay hold of any thing which is beyond the reach of their hands, using the extremity of the tail like a singer or hand; the partition between the nostrils is very thick, and the apertures are situated on the sides of the nose; the buttocks are clothed with hair, and have no callosities; the cheeks have no pouches; the semales of this subgenus do not menstruate; and this race of animals is only to be found in America: This subdivision of the genus is made, with great propriety, by Dr Gmelin, in imitation of the Count de Bussion.

1. Guariba.—33. S. Sapajus Beelzebub. 12.

Is of a black colour, with the extremity of the tail and the feet brown; and has a beard.

Black cercopithecus, with brown feet. Briff. quad. 194.—Guariba. Marcg. Braf. 226.—Howling baboon. Bancroft Guiana, 133.—Ouarine. Sm. Buff. viii. 176.—Preacher monkey. Penn. hift. of quad. n. 114. z.

Inhabits South America.—This species wanders in flocks, mostly at night, making the woods continually resound with hideous howlings: It is a sierce animal, about the fize of a fox; having the body covered with long, black, smooth, and very short hair; and has a round black beard on the the chin. According to Marcgrave, it has a large square face; black and brilliant eyes; and short roundish ears: The hair on the whole body is black, long, smooth, and lustrous; that on the chin and throat is longer, and forms a kind of roundish beard; the hair on the hands, feet, and extremity of the tail, is brown: The semale resembles the male in every thing, except in being smaller: It is so wild and mischievous, as neither to be conquered nor tamed; bites cruelly; has a frightful voice, produced by means of a large concave bone in the throat; and a ferocious aspect: It generally walks on four feet; and feeds only on fruits, pot-herbs, grain, and some infects; and its sless reckoned very good eating.

2. Arabata. - 34. S. Sapojus seniculus. 13.

Is of a dusky red colour; and has a beard on the chin.

Bearded cercopithecus, of a full red colour. Briss. quad. 206.—Alouata, red ape, or largest bearded cercopithecus, of a rusty colour, and having a strong founding voice. Barrere, Fr. equin. 150.—Arabata. Gumilla Oronoko, ii. p. 8.—Alouate. Sm. Buss. viii. 176.—Royal preacher monkey. Penn. hist. of quad. n. 114. \$.

Inhabits the woods near Carthagena, in Cayenne, and on the river Amazons.—This species falutes passengers, from the trees, with loud cries in a disagreeable hoarse voice; the herd scarcely allowing themselves to be looked at till the whole flock begins to roar all at once. It lives mostly on the fruit of the banana tree. The body is of a middle fize, and of an uniform red colour; the mouth is situated on the anterior part of the face, having a large dependent chin, much like that of mankind. The Arabata only differs from the Guariba, by having a larger beard, and the hair of a reddish-brown colour; so that these two Sapajous may be considered as varieties of the same species: It is a savage animal, of a reddish-bay colour, as large as a call; and, by means of a singular boney structure in the throat, makes a terrible noise, which is heard at a great distance.

3. Quato. - 35. S. Sapajus paniscus. 14.

Has no thumb on the hands; is of a black colour; and has no beard.

Larger dark brown ape, having only four fingers on the hands; and the tail naked on the under fide at the extremity, and prehenfile. Brown Jamaica, 489.—Cercopithecus, wanting the thumb on the hands, and having the under fide of the tail naked at the extremity. Briff. quad. 211. Coaita. Sm. Buff. viii. 184. pl. cclxxvii.—Quato. Bancroft's Guiana, 131.—Simia panifcus. Schreber, i. 115. t. xxvi.—Four-fingered monkey. Penn. hift. of quad. n. 115.

Inhabits South America.—An active, bold animal, fond of freedom, full of gambols, and impatient of cold: It is about the fize of a mastiff, and of a black colour, sometimes dark brown; the limbs and waist are long and slender; these, and the farther half of the tail, are sometimes brown coloured, and sometimes black, like the rest of the body; it has four singers only *, without any evident thumb on the hands, and five toes on the feet; there is, however, a very small thumb on the hands, at some distance from the rest of the singers, which is concealed by being placed much inwards; the nails on the singers are rounded; those on the toes are somewhat oblong and sharp-ish; the face is red, and naked, with bare ears; it has a very long prehensile tail, and wants the osseous pouch in the throat by which the two former species of Sapajous make their harsh noise; the skin is black, and covered with rough black hair, very thin on the under parts of the body; the face is naked and tawny, with naked ears resembling those of man; it is about a foot and a half long from the muzzle to the rump, and walks on four feet: This is a familiar and tractable animal.—There seem to be some varieties of this species, as Brisson describes one which had whitish hairs on all the under parts of the body; and Edwards Gleanings, 222. mentions two varieties, one-black and the other brown.

67

4. Exquima.—S. Sapajus Exquima.

Is of a variegated black and yellow colour on the back; the throat and belly are white; has a beard. Sm. Buff. viii. 184.

Bearded cercopithecus from Guinea, called Exquima in Congo. Marcgr. hift. nat. Brafil. 227-fig. p. 228.

Inhabits South America.—This animal is nearly of the fame fize with the Coaita or Quato, last described, but differs in the colour, and in having a beard; it is, however, very nearly allied to, and perhaps only a variety of that species, which it resembles in disposition, fize, and prehensile tail.

68

5. Sajou. - 36. S. Sapajus trepidus. 20.

Has an erect tuft of hair on the fore-head, and no beard; the hands and feet are blue; the tail is long and hairy.

Bush-

^{*} It is fingular that the accurate Count de Buffon should, in his description of this animal, several times infift on the want of thumbs, while the plate given in his Natural History distinctly delineates the small short thumbs mentioned in the foregoing description from Dr Gmelin's edition of the Systema Naturae.—T.

70

71

Bufh-tailed monkey. Edw. av. t. 212.—Brown variety of the Sajou, or Capuchin monkey. Sm. Buff. viii. 193. pl. cclxxviii.—Fearful monkey. Penn. hift. of quad. n. 116.

β. Grey Sajou.—S. Sapajus trepidus fulvus.

The hair round the face is grey, and of a brownish yellow on the body. Sm. Buff. viii. 193. pl. cclxxix.

Inhabits Surinam.—The body is brown on the upper, and rufty coloured on the under parts; the hair of the head forms a black, erect, hemispherical tuft; the tail is hairy, and the nails are all rounded.—Perhaps only a variety of the Simia apella, or Capuchin, No. 71.? Gm.—The face and ears are fielh coloured, and somewhat downy; the eyes are chesnut coloured, and situated near each other; the tail is prehensile, naked below at the extremity, and very bushy every where else; the hands are always black and naked: It walks on four fect, and does not exceed a foot in length from the muzzle to the origin of the tail. There are two varieties of this species, the brown and the grey, which differ in colour only: They are both of the same size, and have the same sigure and dispositions; are both very agile, nimble, dexterous, and amusing. Bussion had them both alwe; and, of all the Sapajous, their constitution seems to be best adapted for the climate of Europe: If kept in a chamber during winter, they will live comfortably for several years; and there are several examples of the species producing in France. The semales are apt to be mistaken for males from a remarkable prominence of the clitoris. It is a whimsical animal in its taste and affections, being fond, of particular persons, and discovering the greatest aversion to others.

6. Horned Sapajou. - 37. S. Sapajus fatuellas. 28.

Has two tufts of hair on the head, resembling little horns: Is beardless. Briss. quad. 195... n. 3. Penn. hist. of quad. n. 120.

Inhabits South America.—The face, fides, belly, and fore parts of the thighs, are brown; the top of the head, middle of the back, tail, legs, and posterior parts of the thighs, are black; the nails are long, and rather blunt; the tail is prehensile and twisted spirally. Perhaps of the same species with the Simia apella, or Capuchin? Gm.—This, in all probability, is one of the factitious species, purposely deformed, by exhibitors of wild beafts, to impose on the public.—T.

7. Brown Sapajou. 38. S. Sapajus apella. 29.

Has a long sub-prehensile tail, and no beard: The body is brown coloured, the legs black, and the buttocks hairy.

Brown cercopithecus, having the top of the head black. Briff. quad. 137. n. 1.—Simia apella. Schreber, i. 119. tab. xxviii.—Weeper. Penn. hift. of quad. n. 118.

Inhabits South America.—An active animal, conftantly looking about on all fides, and is not much incommoded by cold weather; its cry refembles that of a hungry turkey pout; the circumference of the face has the appearance of having been fhaved.—This and the Sajou, or Simia trepida, are probabl, the fame species, and even the same variety, called Brown Sajou by the Count de-Buffon.—T.

73

74

8. Sai. - 39. S. Sapajus capucinus. 30.

Is of a brown colour, with erect black hair on the top of the head, and black limbs: Has a shaggy prehensile tail; and is beardless.

Beardless black ape, Simia, with a long thaggy tail and yellowish face. Mus. Ad. Fr. 2. t. 2.—Cercopithecus entirely black. Briss. quad. 139. n. 5.—Sai, or Weeper. Sm. Buff. viii. 196. pl. cclxxx.—Capucin. Penn. hist. of quad. n. 117.—Simia capucina. Schreber, i. 120. t. xxix.

R. White throated Sai. - S. Sapajus capucinus albulus.

Has white hair on the breast, throat, and round the ears and cheeks. Sm. Buff. viii. 196. pl. cclxxxvi.

This animal differs from the other variety, befides the circumstances mentioned in the character, by having less hair round the face; but, in every other article, and in dispositions, fize, and figure, they perfectly resemble each other.

Both inhabit South America.—This animal walks gravely, and does not skip about; it is continually crying in a wailing and lamentable voice, and repels its enemies by horrible clamours; often shrieking like the cricket; and, when teazed, yelps like a whelp; carries the tail rolled up spirally, and very often wrapped round the neck: It simells rank of musk; is about the fize of a cat; the body being of a dark brown colour, with the head, limbs, and tail, black; the fore-head is sometimes black, and sometimes red, having a black, wrinkled, and moveable fold of the skin, just before the hair; the nose, near the eyes, is surrewed; and the tusks are placed near the other teeth; the tail is long, prehensile, and always rolled up, and is covered with very long hair; when sitting, the feet are placed in such a manner that the hind are always more advanced than the fore paws; the face is round and slat, and the ears are almost naked; on the upper parts of the body, the hair is of a blackish brown colour, and, on the inferior parts, of a pale yellow, or dirty white; it does not exceed sourteen inches in length, from the muzzle to the rump, and the tail is longer than the body and head; it walks on all fours; is a mild, docile, and timid animal, whose common cry refembles that of a rat, and becomes a kind of groaning when threatened with danger. In Europe it eats May-bugs and snails, but in Brasil lives chiefly on grains and wild fruits.

9 Saimiri .- 40. S. Sapajus sciurcus. 31.

Has no beard; the hinder part of the head is prominent; and the nails, on the four toes of the hind paws, are narrow and pointed.

Beardless ape, Simia, having a long tail, a gibbosity on the back of the head, and the toe nails oblong. Mus. Ad. Fr. 3.—Cercopithecus, having its hair variegated with yellowish and whitish brown, and the legs of a reddish yellow or orange colour. Brist, quad. 197.—Small half-bearded American ape, with a long tail, having a bluish black muzzle, and oblong nails. Wagner Mus. Bareuth. p. 1. t. 1.—Lesser yellow cercopithecus. Barrere fr. equin. 151.—Caitaia. Marcgr. Brast. 227.—Saimiri. Sm. Bust. viii. 199. pl. celxxii.—Orange monkey. Penn. hist. of quad. n. 119.—Simia sciurea. Schreber, i. 121. tab. xxx.

Inhabits South America.—A pleafant animal, which ufually refts by lying on its belly; flares in the face of fuch as speak to it; and is very delicate in the climate of Europe: Its body is about the

76

77

fize of a fquirrel, and, when fitting, it is about feven inches in height; the upper parts of the body are of a greenish-grey colour, and the under parts whitish; the legs and arms are rusty-brown; the tail is hairy, having a black tip, and is twice the length of the body; the nails of the thumbs and great toes are rounded; the muzzle is of a bluish brown colour; the eye-brows are furnished with bristly hairs; and the ears are covered with a thin whitish down. This is the most beautiful of all the Sapajous; its movements are graceful, its size small, its colour a brilliant yellow, its visage round, with large vivacious eyes, surrounded by sless-coloured rings; it has hardly any fore-head; the nose is elevated at the base, and slattened at the point; the mouth is finall, the face slat and naked, and the ears are garnished with hair, and a little pointed; the tail is only half prehensile: It stands with ease on two feet, but commonly walks on all four.

β. Chesnut Saimiri. -41. S. Sapajus sciureus mortus. 32.

Of a chefnut colour, with a brown muzzle, and no beard, having a naked fealy tail.

Leffer American cercopithecus, called Monkie. Seba Muf. i. 22. t. 33. f. 1.--Cercopithecus-with a chefaut coloured back, a fmooth belly, and having a tail like a moufe. Briff. quad. 201.

Inhabits America.—This animal feems only to differ from the Saimiri by its leffer fize, and from being younger; for which reason it is only ranked as a variety of the Saimiri, though, by Dr. Gmelin, it is placed as a distinct species, in his edition of the Systema Naturae.—T.

10. Magu,-42. S. Sapajus syrichtus. 33.

Is beardlefs, and has the mouth and orbits furrounded with long hairs.

Long tailed, beardless, cercopithecus, having a brown muzzle, and a naked scaly tail. Gronov. Zooph. 21.—Smallest cercopithecus, from the Philippine islands. Pet. gaz. 21. t. 13. f. 11.—Philippine monkey. Penn. hist. of quad. n. 113.—Simia syrichta. Schreber, i. 152. t. xxxi.

Said to inhabit the Philippine islands.—This is an obscure species, which is mentioned only by. Petiver, who says that the Indians call it Root, or Magu.

11. Variegated Sapajou. - S. Sapajus variegatus.

The hair on the fides and back of an intimately mixed orange and black colour.

Antigua monkey. Penn. hift. of quad. n. 121.

Its place uncertain.—A lively good natured animal, full of tricks: The body is about eighteen inches long, including the head, and the tail, by which it frequently hangs, is twenty inches long; the face is black, having a fhort-nofe, and long hair hanging down on each fide of the cheeks; the back and fides are orange and black intimately mixed; the belly white; the outfide of the legs black, and the infides ash coloured; the tail a dusky ash. This animal was brought from Antiqua; but its native place is uncertain.

79

80

***** S'AGOINS.—SAGOINI.

Have long tails, which are proportionally longer than those of the Sapajous, straight, flaccid, entirely covered with hair, and not prehensile; that is, incapable of laying hold of any object: The cheeks have no pouches; and the buttocks, which are covered with hair, have no callosities: The partition between the nostrils is very thick, and the apertures are placed on the sides of the nose. The females do not menstruate. This race of animals is only found in America.

1. Saki.-43. S. Sagoinus pithecia. 22.

Is beardless, and the body is thickly covered with long hairs, which are black at the points; the tail is covered with very long hair.

Very finall whitish ape, of a deep brown, almost reddish, colour on the back, having the tail very hairy. Brown. Jam. 489.—Cercopithecus, covered with black hairs, black at the points, and having the tail clothed with very long black hair. Briss. quad. 195.—Saki. Sm. Buff. viii. 201. pl. cclxxxiii.—Sakkawinkee. Bancroft. Guiana. 80—Simia pithecia. Schreber, i. 125. tab. xxxii.—Fox-tailed monkey. Penn. hist. of quad. n. 122.

Inhabits South America.—An exceedingly amufing animal, and eafily tamed: The body is black, all the hairs having white points, and is fometimes a foot and a half in height; the face has fome very fhort white hairs; the throat and belly are covered with dirty whitish hairs; the nails are long and blunt; the face is tawny, and covered with a fine, short, whitish down; the hair on the upper parts of the body is blackish brown, and that on the belly and other inferior parts is reddish white; the hair on the tail is so long as to hang near two inches beyond the point. There are varieties of this species, at least in colour; some having the hair on the body and tail of a reddish yellow colour. The fore-head, and sides of the face, are surrounded with whitish and pretty long hair; the hands and feet are black, with claws instead of nails.

2. Sanglin -44. S. Sagoinus jacchus. 24.

The ears are large, open, and very hairy; the tail is crooked, and very thickly covered with hair; the nails on the thumbs and great toes are rounded, while those of the fingers and toes are sharp and narrow.

Cercopithecus, variegated with alternate transverse bands of brown and whitish grey, having the ears surrounded with white hairs. Briss quad. 202.—Sagouin, or third cercopithecus from Brass. Clus. exot. 372. t. 372.—Galleopithecus, called Sagoin by the Brasslians. Gesn. quad. 369.—Lesser cagui. Marcgr. Brass. 227.—Sanglin, or lesser cagui. Edw. av. v. 15. t. 218.—Oistiti, or striated monkey. Sm. Buff. viii. 205. pl. cclxxxv. Penn. hist. of quad. n. 124.

B. Yellowish Sanglin .- S. Sagoinus jacchus moschatus.

Of a whitish yellow colour, and smelling strongly of musk. Briss, quad. 197. First correspithecus from Brassl. Clus. exot. 371

Inhabits Brafil.—An active, reftlefs animal, which climbs trees like the fquirrel, having a curved, but not prehenfile, tail; it gnaws wood like the mouse, and lives on insects, fruits, milk, bread, tea, and finall birds; is not tameable, and is fond of biting; a great enemy to cats, on whom it fixes itfelf under their bellies; emits a histing kind of cry, and finells strongly of musk; is smaller than a fquirrel, fcarcely meafuring eight inches from the muzzle to the rump, and the tail is confiderably longer than the body; the head is very finall, and of a black colour; with a white fore-head and white lips, the space between the eyes being of a yellowish colour; the fore part of the ears are covered with a long white fur, which excludes the wind; the tail is furrounded with white circular bands; it has four fore-teeth, the two outer ones being broad and parallel, and those on each fide fharp pointed, and approaching each other; the tail is flaccid, very bufly, annulated with alternate bands of black and white, or rather brown and grey, and is twice as long as the body and head, which last do not exceed fix inches; the face is naked, and of a tawny flesh colour, having two tusts of long white hair before the ears, which conceal them when the animal is viewed in the face; the ears are roundish, flat, thin, and naked; the eyes are of a reddish chesnut colour; the top of the front is covered with black hair; and above the nose there is a white naked spot; the body is covered with grey ash coloured hair, interspersed with a little yellow on the throat, breast, and belly: The found emitted by this animal is articulate, and refembles the word ouifiti, which is adopted as its name.

3. Pinche. -45. S. Sagoinus Oedipus. 25.

Is beardless: Has a flowing head of hair, which hangs down on each side; a red tail, and fharp claws.

Cercopithecus, covered with mixed red and brown hair; the face, as far as beyond the ears, is black and naked, and the top of the head is covered with long white hair. Briff. quad. 150. t. 28. —Little lion-monkey. Edw. av. 3. p. 195. t. 195.—Larger cagui, from Brafil. Marcgr. Braf. 227. -Pinche. Sm. Buff. viii. 2.11. pl. cclxxxvii.-Red-tailed monkey. Penn. hift. of quad. n. 126. pl. xxv.

Inhabits South America.—A brifk active animal, which imitates the motions of the lion: Refembles the former species a good deal in fize, but is rather larger, and, like it, smells of musk: Its voice refembles that of a moufe: The body is finall, about fix inches long, of a grey colour on the upper parts, and white below; the face, as far as beyond the ears, is black and naked, with a few feattered white hairs, and having a wart on each check; the eyes are of a rufty brown colour; the ears are roundish, black, and naked; the claws are all narrow and sharp, except those on the short thumbs of the fore paws, which are rounded; the tail is twice the length of the body, is red at the base, and the rest of it black; the region of the anus is red. The figure of this animal is fingular, though beautiful; it is rendered remarkable by a kind of finooth white hair dependent from the top and fides of the head, especially as the colour is wonderfully contrasted by that of the face, which is black, and interspersed with a grey down; the tail, from its origin to near the middle, is of a lively red, the rest of a brownish black; the hair, on the superior parts of the body, is of a yellowish brown colour, that on the breaft, belly, hands, and feet, is white; the whole skin is black; the throat is naked and black, like the face; the muzzle is broad, and the face round; the voice is foft, and refembles the chirping of a small bird: It is about nine inches long from the muzzle to the rump, and walks on four feet; is extremely delicate, and difficult to transport from America.

81

83

84

4. Marikina. - 46. S. Sagoinus rofalius. 26.

Is beardless: Has a very hairy head: The circumference of the face and the feet are red; and the claws are sharp and narrow.

Yellowish white cercopithecus, having the circumference of the face of a deep red colour. Briss. quad. 200.—Lesser cercopithecus, of a pale olive colour with a small-head, called Acarima at Cayenne. Barrere Fr. equin. 151.—Marikina. Sm. Buff. viii. 209. pl. cclxxxvi.—Silky monkey. Penn. hist. of quad. n. 125.—Simia rosalià. Schreber, i. 130. tab. xxxv.

Inhabits South America.—A brifk animal, lefs impatient of cold than the rest of this race: The body is of a yellowish white colour; the nails on the thumbs and great toes are rounded; the ears are naked, but are hidden beneath the fur: It has a round head, and a brown face, which is surrounded with a kind of mane of a bright red colour; the hair on the body and tail is long, silky, and of a pale, but vivid, yellow colour, almost white, with a considerable tust at the extremity of the tail: It walks on four feet, and is eight or nine inches in length, from the muzzle to the rump; and the tail is above thirteen inches long. This species has the same manners and vivacity with the other Sagoins, but is more robust in constitution, as an individual lived five or fix years in Paris, being kept in a warm room during winter.

5. Mico.-47. S. Sagoinus argentatus. 47.

Is beardless; of a silvery white colour, with a red face and brownish tail. Mant. pl. 2. p. 521.

Cercopithecus of a filvery white-grey colour, having a bright red face and ears, and a chefnut coloured tail. Briff. quad. 142. n. 103.—Mico. Sm. Buff. viii. 214. pl. cclxxxviii.—Fair monkey. Penn. hift. of quad. n. 127.—Simia argentea. Schreber, i. 131. tab. xxxvi.

Inhabits the country near the river Amazons in South America.—This is a very rare species: The body is about seven or eight inches long, including the head, and is covered with long beautiful silvery white hair; the tail is about one half longer than the body, and is clothed with glossy brown hair approaching to black; the face, muzzle, and ears, are naked, and of a lively vermilion colour, as if painted; the muzzle is short, and the partition between the nostrils is thinner than in the other Sagoins; the eyes are distant, and the ears large; the claws on the thumbs, singers, and toes, are crooked, narrow, and pointed, but the great toes have flat rounded nails.

6. Tamarin. 48. S. Sagoinus midas. 27.

Is beardless; the upper lip is cleft; the ears are naked and squared; the claws are sharp and narrow; and the feet are of a saffron colour. Mus. Ad. Frid. 2. p. 4.

Very fmall, black, lion-headed cercopithecus, with ears like the elephant. Barrere Fr. equin. 151.—Very fmall, black cercopithecus, with faffron coloured paws. Edw. av. 196. t. 196.—Black cercopithecus with faffron coloured feet. Gronov. zooph. 20.—Cai. Raj. quad. 155.—Tamarin. Sm. Buff. viii. 203. pl. cclxxxiv.—Great-eared monkey. Penn. hift. of quad. n. 123.

Inhabits Surinam.—The body is of a black colour, and about the fize of a fquirrel; the tail is black, and twice the length of the body; the ears are large, naked, and blunt; the hands and feet

are of a faffron or orange colour; the claws on the thumbs, fingers, and toes, are narrow and fharp pointed, and those on the great toes are flat and rounded. This is a beautiful, lively animal, and easily tamed, but too delicate for the climate of Europe; its body and limbs are finely proportioned; it walks on four feet, and the body and head together are only seven or eight inches long, with the tail of double that length: The head, body, and tail, are covered with soft, blackish-brown hair; and the hands and feet with short orange coloured hair; the face is of a dusky slesh colour, having the upper lip divided, nearly like that of a hare; the ears are square, large, naked, and of the same colour with the face.

III. MAUCAUCO.-3. LEMUR. 3.

Has four cutting teeth in the upper jaw, with a space between the two foremost and the other two; in the lower jaw are six, which are longer than those in the upper; they are extended forwards, compressed, parallel, and close set; on each side in both jaws there are single tusks, which stand close to the other teeth; there are several grinders, which are somewhat knobbed, and the foremost of these are longer and sharper pointed than the others. The feet are formed like hands.

This genus forms a kind of link between the race of Apes and the ferocious quadrupeds, having the flat nails of the former, combined with the crooked claws of the latter; and, except in the hand-like use of the paws, having no resemblance to mankind. All the species of this genus, except one which is very little known, inhabit the torrid regions of Asia and Africa.

1. Loris.—1. Lemur tardigradus. 1.

Has no tail, and is of a pale rusty brown or tawny colour. Schreber, i. 134. tab. xxxviii.

Ape, fimia, having a long, crooked, fharp, claw on the toe of each hind paw next the great toe. Briff. quad. 190. n. 3.—Dog-headed ape, having a long, fharp, crooked, claw on each index, or fore finger, and toe. Briff. quad. 191. n. 2.—Little dog-headed animal, named Sloth in Ceylon. Seba Muf. i. 55. t. 35.—Ceylon cercopithecus, or, as it is called, Larger Sloth. Seba Muf. i. 75. t. 47. f. 1.—Loris. Sm. Buff. vii. 231. pl. ccxxx. Penn. hift. of quad. n. 129.

Inhabits the island of Ceylon.—An active animal, having a most acute sense of hearing: It is about the fize of a squirrel; of a pale brown or rusty colour, with a whitish throat, and having a white line on the head pointing to the space between the eyes; the face is covered with hair; the ears are large, thin, rounded, and garnished on the inside with two auricles; the palms of the hands and soles of the feet are naked; the nails are rounded, except on the index of the hind paw, which has a sharp

L 2 pointed

pointed claw; it has no tail; there are two paps on the breaft, and two on the upper part of the belly: It is a monogamous animal, or lives in focieties confifting of only one male and one female, taking a mutual charge of the young ones: It is finall, and remarkable for the elegance of its figure, and the fingularity of its conformation; having nine lumbar vertebrae, whilft all other quadrupeds have only five, fix, or feven; the head is entirely round, and the muzzle almost perpendicular to this sphere; the eyes are very large, and are placed very near each other; the ears are large, rounded, and garnished with three auricles on the inside, so as to resemble a turbinated shell: The most remarkable circumstance, which is perhaps peculiar to this animal, is, that the female clitoris is perforated by the urethra, so that this organ has a perfect resemblance, both in figure and fize, to the penis of the male; the hair on the body is short, and very fost, of a tawny colour on the upper parts, and whitish on the under parts; the limbs are very long and slender, and the thumbs and great toes are remarkably distinct, and much separated from the other toes. Though named a Sloth by some writers, it is remarkably agile in climbing trees, and has the actions of an Ape.

86

2. Tailless Maucauco.—Lemur ecaudatus.

Has no tail: A dark rusty line, from the rump, runs along the middle of the back to the fore-head, where it becomes forked; and a blackish circle surrounds the orbits. Penn. hist. of quad. n. 128. pl. xxvi. Lever. Mus.

Lemur ecaudatus, Taillefs Lemur. Nat. Mifc. pl. xxix.

Inhabits Ceylon and Bengal.—The head is finall, round, and broad at the fore-head; the muzzle pointed; the orbits light coloured, and furrounded with a black circle, and the fpace between them white; the ears are finall; the fingers and toes naked, having flat rounded nails, except the inner toes of the hind paws, next the great toes, which have long, crooked, fharp claws: The length of the body and head is about fixteen inches; and the whole body is covered with fhort, foft, filky, ash coloured and reddish fur. It lives in the woods, is fond of fruits, eggs, and finall birds; is very inactive, creeping flowly on the ground; very tenacious of its hold, and emits a plaintive cry.—There is some confusion among authors in their description of the two last animals; for this ought to be the Lemur tardigradus of Linnæus and others, at least in its manners: This edition is guided, however, in referring the Loris to that species by the high authority of the Count de Buffon.

87

3. Indri .- 2. Lemur Indri. 9.

Has no tail, and is of a black colour. Sonneret, It. ii. 142. t. 88.

Inhabits Madagascar.—This animal is about three feet and a half high; is easily tamed, when caught young, and is employed in hunting by the natives: Its voice is plaintive, like that of an infant; it has eight tusks, or canine teeth, in each jaw, only two cutting, or fore-teeth, in the upper jaw, and four, close set, in the lower; all the feet have five toes, furnished with flattened sharp nails, and the great toes are very large; the hair is filky and thick set, white and curled on the rump, grey on the face and between the hind legs, and black over all the rest of the body and limbs: The rudiments of a tail are sensible to the touch, but not visible through the fur.

4. Potto.-3. Lemur Potto. 6.

Has a tail: Is of a pale rusty brown colour, with the tail of the same colour with the body.

Bosman's Guinea, ii. 30. f. 4.

Inhabits Guinea.—This animal is very like the former species, except in colour, and by having a tail.

89

5. Mongous. -4. Lemur Mongoz. 2.

Of a grey colour, and having a tail of the fame colour with the body. Schreber, I. 132. tab. xxxix. B.

Mongooz. Edw. av. v. 12. t. 216. Walch, Natur. viii. 26.—Woolly maucauco. Penn. hift. of quad. n. 130.—Mongouz. Sm. Buff. vii. 226. pl. ccxxviii.

The body is grey, or rather brown, on the upper parts, and white on the lower, having a black circle round the orbits: The hands are of a pale ash colour.

90

β. Black-faced Mongous.—2. β. Lemur Mongoz maurus.

The body is grey or brown, and the face and hands are black. Edw. av. v. 13-

91

y. Black Mongous .- 2. y. Lemur Mongoz negro.

The body is black, or dark grey, with a black spot near each eye.

Brown woolly fquirrel-ape, Simia-sciurus, from the island of Johanna; perhaps the Indian cercopithecus of Ray, called Bugee. Petiv. gaz. 26. t. 17. f. 5.

92

S. White-handed Mongous.—2. S. Lemur Mongoz albipes.

The body is brown, and the muzzle and hands are white.

Brown Profimia, or ape-like animal, having the muzzle, throat, and paws, white. Briff. quad. 156. n. 2.

93

e. Brown Mongous.—2. e. Lemur Mongoz fuscus.

The whole body is of a uniform brown colour.

Simius zambus. Nieremb. hift. nat. 176.—Brown profimia. Briff. quad. 156. n. 1.—Variety of the mongous, of the fize of a cat, and totally brown. Sm. Buff. vii. p. 226.

94

ζ. Grey Mongous.—2. ζ. Lemur Mongoz cinereus:

The body is grey, with a black face, and tawny yellow hands. Schreber, i. 138. tab. xxxix. A.

Profimia, of a brown colour, mixed with red; having a black face, and tawny yellow paws. Briff: quad. 157. n. 3.

96

97

The Mongous inhabits the islands of Madagascar and Johanna, and the neighbouring countries of Africa.—The several varieties of this species, which are enumerated from Dr Gmelin's edition of the Systema Naturae, seem all to resemble each other very much, and to differ chiefly in fize and colour from each other. In all of them the toes next the great toes, on the hind paws, are furnished with long narrow sharp claws.

The variety which the Count de Buffon describes, enumerated above under the name of Brown Mongous, had long silky hair, rather short, and somewhat curled, and entirely brown; the eyes are yellow, the muzzle black, and the ears short; the testicles are very large, and the tongue very rough: It was extremely brisk in its movements, petulant, very nasty, and fond of fruits, sugar, and sweet-meats; while in confinement, it cat off sour or sive joints from its own tail; it emitted almost perpetually a low grunting voice, and, when tired of solitude, croaked very loudly like a frog: The tail is very long and bushy, carried creet, and curved somewhat in the manner of the squirrels. The one represented in pl. cexxviii. of the Count de Buffon's work, seems to have a whitish or grey throat; the muzzle, from between the eyes to the point, is long, black, and narrow, with a number of long hairs over the eyes, and on each side of the mouth.

6. Vari .- 5. Lemur Macaco. 3.

Has long hair round the fides of the neck and throat, like a ruff; and a long tail.

Ruffed maucauco. Penn. hift. of quad. n. 132.—Vari. Sm. Buff. vii. 228. pl. ccxxix.

α. Black Vari .- 3. α. L. Macaco niger.

The whole body is of a uniform black colour. Schreber, i. 142. tab. xl. A. Black maneauco. Edw. av. v. t. 217.

β. Brown Vari.—3. β. L. Macaco fuscus.

The whole body is uniformly brown.

Brown lemur, having a bushy tail. Gronov. zooph. 22.

y. White Vari.—3. y. L. Macaco albus.

Of a uniformly white colour.

Antavarre, entirely white. Cauche, Madagafe. 127.

98 E. Pied Vari, - 3. S. L. Macaco variegatus.

The body is mixed with black and white in patches. Schreber, i. 142. tab. xl. B.

Vericaist, or Varicossi. Flacourt, voy. 153 .- Vari. Sm. Buff. vii. pl. eexxix.

The feveral varieties of this species inhabit the same countries with the Mongous.—The variety, represented in the plate of the Count de Busson's Natural History, is mostly white in the body; all the paws, the fore-head, the tail, the insides of the thighs, a large blotch on each shoulder, and a long narrow patch on the loin before the upper part of the thigh, are black; the nail on the inner toe of

100

IOI

the foot is fomewhat narrow and pointed, like a claw. The vari is fond of fun-shine, yet always chooses to sleep in a dark place, and preserves its nest very clean. In confinement, it refuses to feed on eggs, flesh, or fish; and, when eating, growls, with a voice like that of a lion: In a wild state it is very fierce, and even dangerous, but when tamed is very gentle and good natured; it has a prodigiously strong voice, like the roaring of a lion, so that two of them in the woods, by their noise, may be mistaken for a hundred; this seems owing to a singular enlargement of the wind-pipe, just before it fplits into two branches to enter the lungs; the muzzle is long and thick, the ears very fhort, and fringed with long flowing hairs, which join the collar, or hairy ruff, on the neck, cheeks, and throat; the eyes are of a deep orange colour, almost red.

PRIMATES.

7. Ring-tailed Maucauco. - 6. Lemur Catta. 4.

Has a long, erectly arched, bufhy tail, annulated with alternate bars of black and white.

Ash-coloured Prosimia, having the tail surrounded with alternate rings of black and white. Briss. quad. 222. Muf. Ad. Frid. ii. 5. Schreber, i. 143. tab. xli. Herman, naturf. xv. 159. - Madagafcar fquirrel-ape, fimia-fciurus, or maucauco. Edw. av. iv. 197. t. 197. Maucauco. Sm. Buff. vii. 225. pl. ccxxvii. - Ring-tail maucauco. Penn. hift. of quad. n. 131.

Inhabits the islands of Madagascar, Mauritius, and Johanna, and the neighbouring continent of Africa. - A gentle animal, living in flocks, which climbs trees, by means of its four paws, like the Apes: It lives on fruits, pot-herbs, and roots, holding its food with the hands; is rather flow in its motions; purrs like a cat when pleafed and at reft: Dr Gmelin adds, that the individual in his poffeffion had a fingular structure of the eyes, which he is uncertain whether to consider as natural or accidental; the pupil of the right eye was contracted into a perpendicular flit, like that of a cat, while the left pupil was circular and wide *. All the nails, both of the feet and hands, are flat and rounded, without the sharp claw on the index. This is a beautiful animal, of an agreeable aspect, an elegant figure, and gentle manners; having a great refemblance to the Monkeys, but without any of their malicious and mischievous dispositions; it has very large eyes, very long hind legs, and a large handsome tail, which is always creet, always waving about, and is ornamented with thirty alternate rings of black and white: When at liberty, it lives in confiderable focieties; is very filent, uttering only a fhort acute cry when furprifed or irritated; it fleeps in a fitting posture, with the muzzle resting on the breaft; the body is not thicker [than a cat, but is confiderably longer; the hair, though foft, ftands erect; the male parts are very finall and concealed. This, and the two former species, have an aukward, oblique gait, but leap well, like all the handed animals.

8. Murine Maucauco. - 7. Lemur murinus. 7.

Is of an ash colour, with a rusty brown tail. Miller, var. subj. of nat. hist. tab. xiii. A. B.

Inhabits the island of Madagascar.—All the toes and singers have flat rounded nails.

9. American Maucauco. - S. Lemur bicolor. 8.

Has a tail: The upper parts of the body are of a blackish grey, and the under of a dirty white colour; with a heart shaped dirty white spot on the fore-head. Miller, var. fubj. tab. xxxii. A.

Inhabits

^{*} Probably the left eye was blind?—T.

Inhabits South America.—The head refembles that of a bull-dog; and all the toes and fingers have narrow fharp claws.

102

10. Curly Maucauco. - 9. Lemur laniger. 10.

Has a tail: Is of a reddish-yellow brick-dust colour on the upper parts of the body, and white on the under parts; and the tail is of a uniform tawny red.

Macquis a bourres. Sonneret, It. ii. 142. t. 89.

Inhabits Madagascar.—The body and head are about twenty-one inches long, and the tail nine; the hair is very fost, and curled; the loins are of a reddish tawny colour; the face black; the ears are small; the eyes large, and of a greenish grey colour: It has only two fore-teeth in the upper, and four in the lower jaw; the paws have all five toes, of which the thumbs and great toes have flat rounded nails, and all the rest pointed claws.

103

11. Podje.—Lemur Podje.

Has remarkably long and flender hind legs, especially from the heel to the toes; and a long flender tail.

Tarfier. Sm. Buff. vii. 171. pl. ccxvi. Penn. hift. of quad. n. 133.

Inhabits the remotest parts of India, especially in the isse of Amboina.—Has a long pointed visage, with a slender muzzle, which is two-lobed at the end; the eyes are large and prominent; the ears erect, broad, naked, semitransparent and long, having a tust of long hair between them on the top of the head; on each side of the nose, and on the upper eye-brows, there are long hairs; it has only two fore-teeth, and two tusks, in each jaw; there is a distinct thumb, and four slender toes, on each foot; the great toes are broad, and surnished with flat rounded nails, but all the other toes and singers have short tharp claws; the penis is pendulous, and the scrotum very large; the length, from muzzle to rump, is six inches; thence to the ground, when standing, eleven inches and a half; the tail is nine and a half inches long; the hair on the body is long, soft, and woolly; the head is ash-coloured, the rest of the body tawny, mixed with ash colour; the hair on the legs is short, white, and thin; the tail is almost naked and scaly for the greater part of its length, and is tusted at the end. This animal is described by Mr Pennant from two specimens in the museum of Dr Hunter, and in the Leverian Museum.

104

12. Prehensile Maucauco.—Lemur prehensilis.

Haș a long prehenfile tail.

Little maucauco. Penn. hift. of quad. n. 134. Brown's illust. of zool. 108. tab. xliv.—Madagas-car rat. Sm. Buff. viii. 284. pl. ccxcv.

Inhabits the island of Madagascar.—Is rather less than a common black rat; the head is rounded, with a sharp muzzle, and long whiskers; the ears are large, roundish, naked, and thin; the eyes are large and full; the toes are long and unequal, with round ends, and thort rounded nails, and a sharp long claw on the inner toe of the hind paw; the tail is hairy, as long as the body, and prehensile; the upper part of the body is cinereous, the lower parts are white, and the space round the eyes is

dark coloured. It is a lively animal, which rolls itself up when asseep, and carries its food in its hands; it bites severely, has a weak voice, and cannot be tamed: It is supposed to live in the palm trees, and to feed on fruits. Perhaps the same with the Murine Maucauco, sp. 8.?—T.

13. Colugo. - 10. Lemur volans. 5.

Has a membrane fitted for flying, which is extended from the fore-legs, along the fides, all round the body. Pallas, Act. Petrop. 1780, p. 1. Schreber, i. 146. tab. xliii.

Cato-fimius volans, of Camell. Petiv. gaz. 14. t. 9. f. 8. Phil. Trans. 277. n. 1065.—Wonderful bat. Bont. Jav. 68. t. 69.—Flying cat, of the Isle of Ternate. Seb. Mus. i. 93. t. 58. f. 2. 3.—Flying maucauco. Penn. hist. of quad. n. 155. pl. xxvii.—Leverian Mus.

Inhabits Guzurat, and the Philippine and Molucca islands.—This singular animal is gregarious, and goes abroad only in the evening and during night, living on fruits: It has a membrane sitted for flying, similar to that of the flying squirrel, which extends on each side, from the head, to the forelegs, from these along the sides to the hind legs, and thence to the extremity of the tail; the tocs, on all the paws, have sharp claws: The semale has two paps situated on the breast, which circumstance renders it probable that this little animal should be arranged with the Matecaucos, or the general race of Apes; but the above description, and generic character, must remain impersect until a more recent specimen be brought to Europe. According to Mr Pennant, it has a long head, a little mouth, and small teeth, with small, round, and membranous ears; the body, and outside of the membrane, are covered with soft, hoary, or black and ash-coloured, hairs; the inner side of the skin is naked, with veins and sibres dispersed over it; the lower sides of the legs are covered with soft yellow down; each paw has sive toes, furnished with slender, crooked, and very sharp, claws, by which it strongly adheres to any thing: It is about three feet long, from nose to rump, and nearly the same breadth when expanded; and the tail is slender, hairy, and about a foot in length.

IV. BAT.-4. VESPERTILIO. 4.

All the teeth are erect, sharp pointed, and standing contiguous to each other; the fore-feet are divided into very long, slender, extended tocs, which are connected together by a membrane, which likewise surrounds the body, and by means of which these animals are enabled to fly.

The animals of this genus, as its Latin name implies *, never go abroad but during the night or evening, when they fly about, in fearch of food, by means of the expansile membrane mentioned in the above generic character. They have all small, obscure, covered eyes, ill formed nostrils, and large mouths,

Vol. I.

^{*} Lucemque perosae,
Nocte volant, seraque tenent a vespere nomen.—Ovid. Met. iv. 12.

mouths, extending almost from ear to ear: Their motion in flying is a kind of defultory fluttering; during which they quicken, relax, or direct their flight, in a very bungling and imperfect manner; catching, however, as they pass, flies, gnats, and particularly moths, which last are their principal food: Their pectoral muscles are much stronger, and more fleshy, than in other animals of this class, being similar to those of birds, for the purpose of flying; and they crawl aukwardly on the ground, from which they rise to flight with great difficulty: The penis is loose and pendulous, which is peculiar to mankind, monkeys, and this genus. In cold countries they remain in a torpid state during winter; being gathered together in dark holes and caverns, or vaults, where they either stick close to the walls, retire into holes, or suspend themselves by the hind legs, some of them wrapping up their bodies in their membranous wings. As the species of this genus are numerous, and more especially as the teeth in the various species are considerably different in their numbers and arrangement, Dr Gmelin has, with great propriety, subdivided the Linnæan genus into subgenera, the distinctions of which are founded on the number of fore-teeth in the two jaws.—T.

A. Having four fore-teeth in each jaw.

1. Vampire. - 1. Vespertilio Vampyrus. 1.

Has no tail: The nose is simple, like the muzzle of common quadrupeds; and the membrane is divided, between the hind legs, quite to the rump.

Ternate bat. Penn. hist. of quad. 393.

This species, of which there are several varieties described below, inhabits the west of Africa, the south of Asia, and the islands in the Indian Ocean and South Seas.—The fore-teeth are rather blunt; it has only one tusk on each side in the upper jaw, which is surrowed by the action of the lower teeth; there are two tusks on each side in the lower jaw, having a small obtuse kind of incisive teeth placed between them; and there are several bluntish grinders on each side in both jaws. The nostrils are scarcely divided. The body is about the size of a squirrel, and varies from sive to nine inches in length. The sirst toe of the fore paws is separate from the membrane, and is surnished with a claw, but the second is enveloped in the membrane. The hind legs have several toes, and the heels send off a taper cartilaginous process which is united to the membrane. The eyes have each a membrana nicitians, placed at the inner corner. The uterus is simple.

106 α. R

a. Rousset. - 1. a. Vesp. Vampirus niger.

Is mostly of a black colour. Schreber, i. 153. tab. xliv.

Black Pteropus, or wing-footed animal, having fhort, and fomewhat fharp, ears. Briff. quad. 153.—Vefpertilio ingens. Cluf. exot. 94. Bont. Jav. 68. t. 69.—Flying-dog, Chien volant, from Ternate. Daubenton, Act. Parif. 1759, p. 384. Seb. Muf. i. 91. t. 57. f. 1. 2.—Rouffette, or Ternate bat. Sm. Buff. v. 281. pl. cxxxiv. Penn. hift. of quad. p. 548.

This species, or variety, is of a dark reddish-brown colour; is nine inches long from muzzle to rump; and the wings are three feet, from tip to tip, when extended; it feeds on bananas, peaches, and other fruits; is not gregarious, yet is found in great numbers on the same tree, by accidentally receting in quest of feed: Often slies by day, which is different from the custom of other bats, and fometimes

fometimes to great heights, and to a confiderable diffance. It has large tufks, a fharp black muzzle, and large naked cars; the tongue is pointed, and garnished with sharp reversed prickles. This species varies in colour, some being dufky, and others of a reddish brown; and some individuals are found more than a foot long.

91

β. Rouget .- 1. β. Vesp. Vampyrus subniger.

The body is of a brownish black colour.

107

108

100

Dark-brown Pteropus, having fhort ears, fomewhat pointed, and the upper part of the neck of a red colour. Briff quad. 154.—Bat from the Isle of Sabuda in New Guinea. Dampier, voy. v. 81. t. 5.—Great bat. Edw. av. iv. 180. t. 180.—Roussette. Daubenton, Act. Parif. 1759, p. 385.—Rougette. Sm. Buff. v. 281. pl. cxxxv. Penn. hift. of quad. p. 549.

This variety is of a cinereous brown colour, having a half collar on the upper part of its neck of a lively red mixed with orange; it refembles the former very much in shape, but is much less, being only about five and a half inches long, and about two feet in extent. This species never slies abroad in the day, and lives in societies, of more than four hundred, in the hollow trunks of large decaying trees; among which vast slock, it is generally believed, there is never more than one male. This animal becomes very fat, and is reckoned good and wholesome food.

2. Leffer Vampire. - Vesp. Vampyrus helvus.

The body is of a pale yellow, or straw colour. Pcnn. hist. of quad. n. 393. \(\rho \). Leverian. Mus.

This variety has a head made like that of a greyhound, with large teeth; the ears are long, broad, and naked; and the whole body is covered with fhort, ftraw-coloured hair. It is about eight inches and a half long, and the wings are two feet two inches in extent; being very much like the two former animals, but its place and hiftory are unknown.

2. Spectre. - 2. Vespertilio Spectrum. 2.

Has no tail: The muzzle has a funnel shaped membrane, bent inwards at the end. Schreber, i. 159. tab. xlv.

Pteropus, with long open ears, and having a membrane, bent inwards at its fore part, joined to the muzzle. Briff. quad. 154.—Flying-dog, Canis volans, with very large ears, from New Spain. Seba, Muf. i. 92. t. 58. f. 1.—Horned bat, or Andira-guacu. Pifo, Brafil. 290.—Vampire. Sm. Buff. v. p. 283.—Spectre. Penn. hift. of quad. n. 394.

Inhabits South America.—The fore part of the noftrils refembles a funnel, turning upwards and inwards, and terminated by a membrane, fhaped like a leaf; the ears are oval, having a narrow pointed flap on the infide, as long as the external ear; the tufks are very large and folitary; the anterior grinders are blunt, and fhorter than the reft; the wings are fubtended on four toes, of which the first and fecond are connected together; and the fore legs have each a detached thumb, armed with a hooked claw; the hind feet have each five equal toes, which are provided with hooked claws; the rump fends off, on each fide, a narrow tapering tendon, along the margin of the membrane between the hind legs; but these do not reach so far as to meet. This animal is extremely uggly and hideous; the head is ill

M 2 shaped,

IIO

III

112

113

fhaped, with large, open, very erect ears; and the nofe is much deformed. It is faid to open a vein with great dexterity in horfes, mules, and even men, while they fleep, and to fuck the blood, fo as to debilitate, or even to kill them, fanning the air all the time with its wings. It is about the fize of a pigeon, according to Seba's figure, the body and head being feven and a half inches long, and the extent of the wings two feet two inches.

PRIMATES.

3. Spear-nosed Bat .- 3. Vespertilio perspicillatus. 3..

Has no tail: The nose has a flat, pointed, leaf-like membrane at its extremity. Mus. Ad. Frid. 7. Schreber, i. 160. tab. xlvi. A.

Common American bat. Seba, Mus. i. 90. t. 55. f. 2.

Inhabits South America.—Has five toes on the fore feet, which are spread out in the membrane.

4. Heart-nosed Bat.—4. Vespertilio spasma. 4.

Has no tail: The nafal membrane is heart shaped. Schreber, i. 158. tab. xlviii.

Tailless bat, having a foliated nose, and very large ears with flaps in the inside. Gronov. zooph. i. 7. n. 27.—Reddish bat, having the ears and nose double. Briss. quad. 161. n. 4.—Glis volans, from Ternate. Seb. Mus. i. 90. t. 56. f. 1.—Cordated bat. Penn. hist. of quad. n. 397.

Inhabits Ceylon and the Molucca iflands.—The fore feet have each five toes spread out in the membrane; the colour of the body is a very pale reddish, and that of the face a little darker; the hind legs are connected by the membrane.

5. Javelin Bat.—5. Vespertilio hastatus. 7.

Has no tail: The nafal membrane refembles a leaf of trefoil. Schreber, i. 161. tab. xlvi. B.

Fer de lance, or Javelin bat. Sm. Bust. vii. 235. pl. ccxxxi. Penn. hist. of quad. n. 395.

Inhabits South America.—Is of a dark brown or black colour, about the fize of a common bat; and very much refembles the fpear-noted bat.

6. Leaf-nosed Bat. - 6. Vespertilio soricinus. 8.

Has no tail: The muzzle is much lengthened, and the nafal membrane is of a heart shape. Pallas, specileg. 2001. iii. 24. t. iii. Schreber, i. 161. tab. xlvii.

Short-tailed bat, having a fharp muzzle furmounted with a leaf-like membrane, and rounded, almost simple ears. Grenov. zooph. 7. n. 26.—Common American bat. Edw. av. v. 201. t. 201.—Leaf bat. Sm. Buff. vii. 235. pl. ccxxxiii. Penn. hist. of quad. n. 396.

Inhabits South America, Jamaica, Surinam, and Senegal.—Has a very floor tail; and the tongue is furnished with sharp pointed papillae: It is about the size of a common bat; the ears are small and rounded; the hind legs are connected by the membrane; the fur is of a mouse colour, tinged

115

116

IO.

tinged with red; the tongue is very long, and feems adapted for fucking blood like the Vampire and Spectre.

7. Hare-lip Bat .- 7. Vespertilio leporinus. 9.

Has a tail; and the upper lip is divided. Syst. nat. ed. x. p. 32. n. 4. Schreber, i. 162. tab. lx.

American night-bat, Noctilio Americana, having a warty under lip. Syst. nat. ed. xii. p. 83. n. 1.—Dusky-red American bat. Briss. quad. 227.—American bat. Seba, Mus. i. 89. t. 55.—Bat from the Valley of Ylo. Feuillé, obs. i. p. 623.—Peruvian bat. Penn. hist. of quad. n. 398.

Inhabits South America.—This species is about the fize of a rat, and lives on fruits; it is of an iron-grey colour; the head is like that of a pug-dog, with large pointed ears; the tail is inclosed in the membrane, which is also supported by two long cartilaginous ligaments; and the wings extend two feet two inches.

8. Chop-fallen Bat. - Vespertilio labialis.

Has a short tail, and hanging lips; the nose is two-lobbed, and the upper lip divided.

Variety s. of the Peruvian bat. Penn. hist. of quad. n. 398. s.

Inhabits Peru, and the Musquito shore.—The head is large, with hanging lips, like those of a mastriff; the nose is two-lobed; the upper lip is divided, and the cars are straight, long, and narrow; the tail is short, having a few of its extreme joints standing out from the membrane, which includes its lower part, and projects far beyond it, in an angular form, ending in a point; the colour of the head and back is brown, of the belly ash coloured, and of the membrane, which is very thin, dusky: It is about five inches long, and twenty inches in extent *.

4. B. Having four fore-teeth in the upper, and fix in the lower jaw.

9. Long-eared Bat. - 8. Vespertilio auritus. 5.

Has a tail: The lips and muzzle are simple; but the ears are double, and larger than the head. Faun. Suec. 3.

Great-eared bat. Frisch. av. t. 103. Edw. av. v. t. 201. f. 3.—Bat, having a tail, a simple nose, and very large ears without any pendicle. Gronov. zoop. 23.—Mouse-coloured bat, with double ears. Briss. quad. 160.—Bat, with quadruple ears. Jonst. av. 34. t. 20.—Long-eared bat, or Oreillar. Sm. Buff. iv. 2d spec. p. 322. pl. xc. sig. 2.—Long-eared bat. Penn. hist. of quad. n. 412. Brit. 2001. i. 129. Lev. Mus.

Inhabits Europe, and is found in Britain.—This is much finaller than the following species, or common Bat, than which it is perhaps more numerous; its wings are shorter, its muzzle smaller and sharper, and its ears are of an immoderate size.

* By length is meant the measure from the tip of the nose to the rump; and by extent the measure between the extremities of the wings when stretched out.—T.

9+

10. Common Bat .- 9. Vespertilio murinus. 6.

Has a tail: The lips and nose are simple; and the ears are smaller than the head. Faun. Succ. 2.

Mouse-coloured bat, with simple ears. Briff. quad. 158. n. 1.—Bat. Aldrov. ornith. 575. f. p. 576.—Small eared bat. Frisch. av. t. 102. Edw. av. iv. t. 201. f. 2.—Chauve souris, or bat. Sm. Buff. iv. 380. 1st spec. p. 322. pl. lxxxix. fig. 1. and 2.—Common bat. Penn. hist. of quad. n. 411. Brit. 2001. i. n. 40.—Its anatomy. S. N. C. d. 2. a. 1. obs. 48.

Inhabits Europe, and is found in Britain.—This animal flies only during the night, living chiefly on moths: When it lights on the ground it is unable to rife again till it has crawled to fome height: It hybernates, or remains torpid, as if dead, during winter, revives in the beginning of the fpring, and comes abroad in the grey, or dufk, of the evening. This species is two inches and a half long, when full grown, and about nine inches in extent; the fur is of a mouse colour, tinged with reddish; it generally skims near the ground, with an uneven jerking flight; and often, seeking for gnats and other aquatic insects, flies close by the surface of water. It breeds in the summer season, and is preyed on by owls.

The European species of bat pass the winter in a torpid state, without food or motion, suspended in fome dark place, in old ruinous houses, or caverns, or in the hollows of decayed trees: This is called hybernation; and, during this state, most of the animal functions are suspended, or at least to greatly diminished in their activity as to be scarcely perceptible: The action of the heart and arteries becomes fo exceedingly languid, that the pulfe can fcarcely be felt, and the natural number of ftrokes, during any given time, is vastly lessened; if respiration be at all carried on, it is so very slow as scarcely to be discoverable; the natural temperature, or animal heat, likewise gets greatly below the usual standard; digeftion becomes altogether fuspended, for, during hybernation, no food whatever is taken into the ftomach; all the excretions, except, perhaps, the infenfible perspiration, and that by the lungs, both of them in a much lower degree than usual, are at a stand; and none of the functions seem to go on excepting a very flow degree of nutrition, and interchange of old for new matter in the depository cells of the body: That this last actually takes place is evident, because all hybernating animals enter into the torpid state extremely fat, and revive again exceflively emaciated; and from this it appears that the 'oil, in the fatty follicles of the cellular membrane, is gradually taken up by the abforbent veffels into the languid circulation, to supply the proportionally gradual waste, occasioned by the more than half fuspended action of the emunctories.

Bats are very voracious, if proper food is to be had; and, though moths and other infects be their natural and common food, yet if flesh, whether raw or roasted, fresh or corrupted, comes in their way, they devour it with greediness. In this country they appear abroad early in spring, slying about only in the evenings; but are sometimes roused from their torpidity by a warm day or two during winter, and will then venture out in quest of food, but recommence their state of hybernation whenever the cold returns: They retire at the end of summer into caves, ruined houses, or the roofs and eaves of houses, where they remain suspended by the hind legs, and enveloped in their wings, generally in large numbers. Bats may be caught by means of the flower cups of bur-dock, whitened and thrown up in the way of their flight; they are attracted by the whiteness, and the hooks of the bur, sticking to their membranous wings, make them fall to the ground.

119

120

121

11. Noctule. - 10. Vespertilio noctula. 10.

Has a tail: The nose and lips are simple; the ears are oval, and provided with a very small valve, or secondary ear. Schreber, i. 166. tab. lii.

Bat. Gesner, av. 694. & pl. Aldrov. ornith. 575. f. p. 576.—Noctule. Sm. Bust. iv. 317. 3d spec. p. 322. pl. xci. sig. 1. Penn. hist. of quad. n. 407.—Great bat. Brit. 2001. i. 128. and Do. illust. tab. ciii.

Inhabits France, Germany, Britain, and Russia.—The nose is slightly two-lobed; the ears are small and rounded; the chin has a small wart; the length of the body is near three inches, the extent of the wings about thirteen, and the tail one inch seven tenths long. This species has been found in great numbers at Cambridge. It never skims along the ground, but slies high in search of food; is sometimes larger than the above measures: Like the former it breeds in summer.

12. Serotine.—11. Vespertilio Serotinus. 11.

Has a tail: Is of a yellowish brown colour, having short ears with thickened edges. Schreber, i. 167. pl. liii.

Serotine. Sm. Buff. iv. 317. 4th spec. p. 323. pl. xci. fig. 2. Penn. hist. of quad. n. 408.

Inhabits France, Germany, and Siberia, beyond Lake Baikal.—This species is about two inches and a half long: The ears are short, and broad at the base; the body is of a brown colour, mixed with rusty yellow, the belly paler, and the wings are blackish.

13. Pipistrelle.—12. Vespertilio Pipistrellus. 12.

Has a tail: Is of a brownish black colour; having a sunk fore-head, and oval, thickedged ears, scarcely so long as the head. Schreber, i. 167. tab. liv.

Pipistrelle. Sm. Buff. iv. 317. 5th spec. p. 323. pl. xcii. sig. 2. Penn. hist. of quad. n. 409.

Inhabits France, more rarely in Germany, and is common in the mountainous parts of Russia and Siberia.—This is the smallest and least uggly of all the bats: The upper lip is turgid, the eyes are small and much sunk, and the fore-head is covered with longish hair. It is not above an inch and a quarter in length, and six inches and a half in extent: The upper parts of the body are of a very dark yellowish brown, and the lower parts of a dusky brown or black colour, with yellow lips.

14. Barbastelle.—13. Vespertilio Barbastellus, 13.

Has a tail: The cheeks are tumid and hairy; and the ears are large and angular at their lower parts. Schreber, i. 168. tab. lv.

Barbastelle. Sm. Buff. iv. 317. 6th spec. p. 323. pl. xcii. sig. 1. Penn. hist. of quad. n. 410.

Inhabits Burgundy in France.—This species appears to have large whiskers, owing to the turgidness of the cheeks, which form a kind of pudding, on each side, above the lips: The muzzle is very short, the nose much slattened, and the eyes are placed near the ears; the ears are very broad, so

that

124

that their lower edges touch each other and conceal the face; the upper part of the body is of a dusky brown, and the lower of a mixed ash and brown colour: It is about two inches long, and ten and a half in extent.

122 15. Bearded Bat.—14. Vespertilio hispidus. 14.

Has a tail, and is covered with a rough fur: The nostrils are open, all up the nose, like a gutter; and the ears are long, erect, and narrow. Schreber, i. 169. tab. lvi.

Campagnol volant. Daubenton, act. Parif. 1759. p. 388.—Bearded bat. Sm. Buff. v. 305. pl. exxxviii. fig. 1. Penn. hift. of quad. n. 402.

Inhabits Africa, near the river Senegal.—This species has a longish beard under the chin: The nose has hardly any cartilage, and the nostrils are placed on each side in a small open gutter, which reaches the whole length of the nose, and is terminated, at the lower part of its external edge, by a small button; the external edges of this gutter unite above the upper lip, and form a large furrow, which extends to the fore-head, and ends in a deep naked pit edged with long hair: The hair is long-ish and rough; on the top and hind parts of the head, on the neck, shoulders, back, and rump, of a reddish brown; the rest is whitish, tinctured with yellow; the ears and membranes have different shades of blackish and reddish brown; the tail is inclosed, to its tip, in the membrane; the claws are yellowish: The length of the body is about one inch and a half, and the extent of the wings seven inches.

C. Having four fore teeth in the upper, and eight in the lower jaw.

16. Striped bat .- 15. Vespertilio pictus. 15.

Has a tail: The muzzle is fimple; the ears are funnel shaped, and provided with a little appendage on the inside. Gronov. zooph. 7. n. 25. Pallas specil. iii. 7. Schreber, i. 170. tab. xlix.

Ternate bat. Seba, Muf. i. 91. t. 56. f. 2. 3.—Mufcardin volant. Daubenton, Act. Parif. 1759, p. 388.—Striped bat. Sm, Buff. v. 306. pl. cxxxviii. fig. 2. Penn. hift. of quad. n. 404.

Inhabits Ceylon, where it is named *Kiriwoula* by the natives.—The nofe-is very fmall; the ears are broad, short, and pointing forwards; the front, top of the head, neck, shoulders, back, and rump, are of a whitish yellow colour; the under jaw, breast, and belly, are bluish, tinged with yellow; the membrane and tail are mixed yellow and brown, striped with black: It is about two inches long from the muzzle to the rump.

β. Reddish striped Bat .- Vesp. pictus rubellus.

Exactly like the former, but having the upper parts of the body of a clear reddiffabrown, and the lower parts whitish. Penn. hist. of quad. p. 558.

D. Having two fore-teeth in the upper jaw, and fix in the lower.

127

17. Senegal Bat.—16. Vespertilio nigritia. 16.

Has a tail: The anterior part of the head is of a yellowish brown colour; and the feet and tail are black. Schreber, i. 171. tab. lviii.

Marmotte volante. Daubenton, act. Parif. 1759. p. 385.—Senegal bat. Sm. Buff. v. 302. pl. cxxxvi. Penn. hift. of quad. n. 400.

Inhabits Africa, near the river Senegal.—The head is longish, with a somewhat pointed nose; the tears are rather short, and pointed; the body and head are of a tawny, or yellowish, brown, mixed with ash colour; and the belly is paler; the length is about four inches, or rather more, and the membrane measures near twenty-one inches when extended.

E. Having two fore teeth in the upper, and four in the lower jaw.

18. Bull-dog Bat .- 17. Vespertilio Molossus. 17.

Has a tail: The tail is long, and reaches beyond the membrane which connects it with the hind legs; and the upper lip is pendulous. Pallas, specileg. iii. 8.

Bull-dog bat. Sm. Buff. v. 303. Penn. hift. of quad. n. 399.

Inhabits the West India islands. - Of this species the two following varieties are known.

a. Greater Bull-dog Bat.—17. α. V. Mol. major.

Is of a brown-ash colour, on the upper parts of the body, and ash coloured on the under parts, having the middle of the belly of a brown colour. Schreber, i. 171. 172. tab. lix. fig. infer.

Mulot volant. Daubenton, act. Parif. 1759, p. 387—Bull-dog bat. Sm. Buff. v. 303. pl. cxxxvii. fig. 1.

The muzzle is very thick, with long lips, and a handsome nose. The ears are broad, and round, with their edges touching under the fore-head, having a fold forwards below the place of contact, and a concavity within the ear, on each side of this fold: The crown and hind part of the head, the top and sides of the neck, the shoulders, the back and the rump, are of a brownish ash colour; the middle of the belly is brown, and the rest of the belly, the breast and throat, are of an unmixed ash colour; the fore legs and toes are cinereous, and the membrane and tail are black: Five salse vertebrae of the tail extend beyond the membrane: The length, from the muzzle to the rump, is about two inches.

B Lesser Bull-dog Bat. - 17. β. V. Mol. minor.

Is of a mixed brownish and ash colour, on the upper parts of the body, and a dirty white on the lower parts. Schreber, i. 171. 172. tab. lix. fig. sup. Sm. Buff. v. 304. pl. cxxxvii. fig. 2.

This animal feems to be of the same species with the preceding, but is smaller, being about an inch and two-thirds long. The head is less plump, the muzzle smaller, and the nose more elegant. Vol. I.

129

130

ly fhaped; the whole upper parts of the body are yellow, with an afh coloured tinge; and the under parts are of a dirty white, inclining to a yellowish ash colour; the membrane and tail are of a mixed brown and yellow; and the tail projects beyond the membrane in the same manner with the former variety.

F. Having two fore-teeth above, and none below.

19. Cephalote.—18. Vespertilio cephalotes. 18.

Has a tail: The head is large, having tumid lips, spiral nostrils, warts below the orbits, and small ears, without any lid or operculum. Pallas, specileg. iii. 10. t. 1. Schreber, i. 172. tab. lxi. Sm. Buff. vii. 236. pl. ccxxxii.

Molucca bat. Penn. hift. of quad. n. 405.

Inhabits the Molucca islands.—This species is about three and three quarter inches long, and sifteen inches in extent; the tongue is furnished with prickly papillae; the hair on the upper part of the body is ash coloured, and on the under parts whitish; the head is very large, in proportion to the body, with a broad, blunt, simple nose; the nostrils are open, spiral gutters; the ears are small, simple, and stand a little backwards; the neck is very distinct, and seems longish, being thinly covered with hair; the tusks of the upper jaw have two small intervening teeth, which are wanting in the lower jaw: The seems only to produce one at a birth.

β. Straw-coloured Cephalote. - Vesp. cephalotes melinus.

Refembles the former, except in colour, being of a fine straw colour, with a dull whitebelly. Penn. hist. of quad. p. 558. Lev. mus.

G. Having no fore teeth above, and four below.

20. Purse-winged Bat .- 19. Vespertilio lepturus. 19.

Has a tail: The nostrils are tubular; the ears are long, blunt at the extremity, and furnished with a lid; the membrane, which connects the legs, has a purse, or pouch, on the inside, on each side of the body. Schreber, i. 173. tab. lvii.

Pouch bat. Penn. hift. of quad. n. 401.

Inhabits Surinam.—The nose is somewhat produced, thick at the end, and beset with whiskers; the chin is divided by a perpendicular surrow; the ears are long and rounded at the ends; the tail is only partly inclosed in the membrane: The body is about an inch and a half long, being of a cinereous brown colour on the the upper, and paler on the under parts.

#32

133

21. Horse-shoe Bat .- 20. Vespertilio ferrum-equinum. 20.

PRIMATES.

Has a tail: The nose resembles the figure of a horse shoe; the ears are of the same length with the head, and have no lid; the tail is about half the length of the body.

Horse-shoe bat. Sm. Buff. iv. 317. 7th spec. p. 324. pl. xciii. Penn. hist. of quad. n. 406. Brit. ZOOL. i. 129.

Inhabits France, and Franconia in Germany, has lately been difcovered in Kent, by Mr Latham of Dartford, and is found about the Caspian.—This species was first observed by the illustrious Daubenton, and described very accurately in his account of the various kinds of bats. The countenance is remarkably deformed, and its most striking feature is a membrane, which, shaped like a horse shoe, surrounds the nose and upper lip; the ears are large, broad at the base, sharp pointed, and incline backwards, having no lid, or little internal ear; the upper parts of the body are of a deep cinereous colour, and the lower parts are whitish. There is a greater and leffer variety, which are very fimilar in form.

a. Larger horse shoe Bat .-- 20. a. Vesp. fer.-equ. major.

This variety is about three inches and a half long, from the tip of the nose to the origin of the tail; its extent is above fourteen inches. Schreber, i. 174. pl. lxii. upper fig.

β. Lesser Horse-shoe Bat. - 20. β. Vesp. fer. equ. minor.

The particular fize and differences of this variety are not mentioned by authors, only that it is less than the preceding. Schreber, i. 174. pl. lxii. lower fig.

H. Having no fore teeth in either jaw.

22. New-York Bat.—21. Vespertilio noveboracensis.

Has a long tail: The muzzle is short and sharp pointed; and the ears are short and rounded. Penn. hift. of quad. n. 403. Arctic. zool. n. 82. Leverian mus. Forster's voy. 189.

Inhabits North America, and is also found in New Zeland.—The head is shaped like that of a moufe, having the top of the nofe a little divided; the ears are fhort, broad, and rounded; the tail is very long, and is inclosed in the membrane, which at that part is covered with long, and very soft hair, of a bright tawny colour; the head and body are of a bright tawny colour, lightest on the head and beginning of the back; the belly is paler; and there is a white spot at the base of each wing; the membrane is thin, naked, and of a dusky colour; and the hind legs are very slender: The length is about two inches and a half, the tail near two inches long, and the extent of the wings ten and a half inches.

> N 2 I.

I. Of which the number and circumstances of the teeth are unknown.

134
23. Broad-winged Bat.—21. Vespertilio lascopterus. 21.

Has a tail; and the membrane is extremely broad. Schreber, i. tab. lviii. B.

Its place and history unknown.

Has a very broad tail; and the lips are tumid. Schreber, i. tab. lxii. B.

The place and history of this and of the former species are not mentioned.

136 25. Clayton's Bat.—Vespertilio americanus.

Is of a large fize; has great ears, and long stragling hairs. Phil. Trans. abrid. iii. 594. Penn. hist. of quad. p. 557. note. Arct. zool. n. 83.

Inhabits North America.—This species is not sufficiently described to enable it to be referred to any of the former species, or to ascertain whether it be distinct from them: It is placed here, in the mean time, to point out the necessity of farther inquiries to naturalists.—T.

H. BRUTA.

Have no fore-teeth in either jaw.

V. SLOTH.-5. BRADYPUS. 7.

Has no fore-teeth in either jaw: Has fix grinders on both fides of each jaw, which are cylindrical, and obliquely cut off at the ends; the two foremost in each jaw being longer than the rest, and far distant from each other. The body is covered with hair.

1. Ai. - 1. Bradypus tridactylus. 1.

Has three toes on all the feet; and a short tail. Mus. Ad. Fr. 4.

Curled bradypus, having three toes on the feet, armed with hooked claws. Brown. Jam. 489.—Tardigradus tridactylus, having three toes both on the fore and hind feet. Briff. quad. 21.—Arctopithecus. Gefn. quad. 869.—Ignavus. Cluf. exot. 372.—Luyart. Nieuhof, Brafil. 27.—Pigritia, or Haut. Nieremb. hift. nat. 163. 164.—Sloth. Edw. av. t. 220.—Ai. Sm. Buff. vii. 150. pl. ccxiii. and ccxiv.—Pareffeux. Gautier, obf. fur l'hift. nat. i. part 2. 81. t. A.—Threctoed floth. Penn. hift. of quad. n. 359. pl. xlix. Nat. mif. pl. 6.

Inhabits the warmer parts of South America.—Lives in trees, and feeds on fresh leaves, especially of the Cecropia; never drinks, and is afraid of rain: Climbs trees with great readiness, but walks with great difficulty, and very slowly, scarcely being able to travel fifty paces in the course of a wholeday; turns its head often about as if astonished: The voice is in ascending hexachord, or six successively rising notes, making a most horrible clamour, accompanied with tears, and every mark of misery: The body is very hairy, and of a grey colour, having a naked sace; the throat is yellow; there are no external ears: The tail is extremely short, and somewhat egg-shaped: The fore legs are longer than those behind, and are placed at a great distance from each other: The toes, of which there are three on each foot, are very close set, and have all exceedingly strong, narrow, hooked claws. There are two paps situated on the breast.

This animal, according to Nieuhof, grows to the fize of an ordinary fox. The nofe is blunt, and of a black colour; the face and throat are of a dirty white colour; the hair on the body is long, very uneven, of a brownish ash, or grey, colour, with a black line along the middle of the back, and a rusty shade on the shoulders; the back and limbs being irregularly spotted with black: The mouth is never without foam: Its manners are sluggish to an excessive degree; its general appearance disgusting; and the voice plaintive, piteous, and even horrible. It can live a prodigious time without.

food,

140

food, Kircher fays forty days: Has vaft ftrength in the paws, and fastens its claws into any thing with fuch force that they cannot be disengaged; hence, when beafts of prey attack this animal, it fastens on them so strongly, that both are often found dead in each others grasp.

2. Unau. - 2. Bradypus didactylus. 2.

Has two toes on the fore feet, and no tail. Mus. Ad. Fr. 4. Schreber, ii. 200. tab. lxv.

Bradypus didactylus, having two toes on each fore foot, and three on the hind feet. Briff. quad. 22.—Tardigradus, from Ceylon. Seb. muf. i. 54. t. 33. f. 4. and t. 34. f. I.—Unau. Sm. Buff. vii. 150. pl. ccxii.—Two-toed floth. Penn. hift. of quad. n. 360.

Inhabits South America, and, according to fome writers, is likewife found in India.—Lives on fruits and roots; has a weak fenfe of finelling, and its fight is better adapted for night than day: The body is covered with rufty-brown undulated hair; the head is round, with flat ears; and it has two paps fituated on the breaft.

The Count de Buffon infifts that this animal is confined to South America, while other authors inform us that it is likewife found in India and in Guinea. Mr Pennant's authority for faying that it is found in the mountains near Madras, and the information of Bosman and Barbot, that sloths are met with in Guinea, are not to be doubted; but, from the general analogy of the South American animals not having been discovered in the other quarters of the world, I am strongly inclined to Buffon's opinion, and suspect that the Sloth of Madras, mentioned by Pennant, and the Sloth of Guinea, described by Bosman and Barbot, are different species from the Unau, or two-toed Sloth from South America. The hair on the body is long and rough, on some parts curled and woolly, in some of a pale red above and ash coloured below, on others of a yellowish white below and brown above. The length of the specimen in the British Museum, which Mr Pennant supposes young, is eleven inches. This species has forty-six ribs on each side, and the Ai only twenty-eight. The Unau, though heavy, and very awkward in his gait, is much more agile than the Ai, and is able to mount and dismount the highest trees several times a-day. There is one very singular circumstance in these two animals, that, instead of distinct excretory apertures, there is only one common canal, as in Birds.

3. Five-toed Sloth.—Bradypus pentadactylus.

Has five toes on all the feet; and a short tail. Hitherto non-descript.

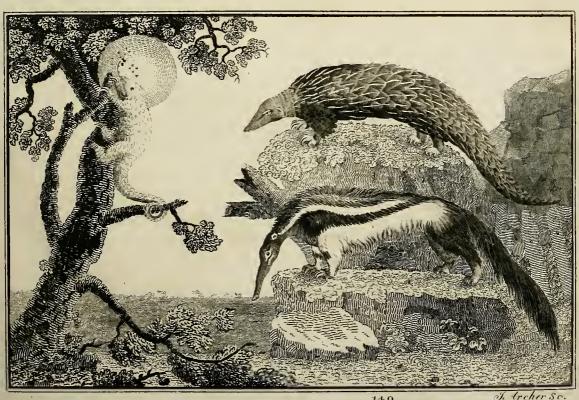
Bradypus ursinus, Ursiform sloth. Natur. misc. pl. 58. 59.

There are no fore-teeth in either jaw: In each jaw are two tufks, which are included by the lips; those below are about an inch and a half long, of a conical or tapering form, stand forwards, and are a little bent backwards at their ends; the upper tulks are about an inch longer, are more crooked, and are larger than the lower: There are two principal grinders above, and three below, on each fide; these are short, stat, broad, and obtusely knobbed; besides these, on each side of the upper jaw, is one conically pointed small grinder, and on each side of the lower jaw are three such, which gradually diminish in size and length as they advance forwards: All these single pointed grinders, in both jaws, stand before the large principal grinders formerly described. The body is large, thick, clumfy, and highly arched in the back, and is universally covered with long, harsh, black hair,



Nº 139.

Nº137.



Nº141.

Nº 149. 142.



MAMMALIA. BRUTA. Sloth. 103

hair, which sheds to every fide from the summit, or ridge of the back: The head, at the top of the face, is large and broad, having fmall dufky eyes, with round pupils; the lower part of the face is narrow and projecting, with the mouth placed at the extremity of the fnout or muzzle; the neck is short and thick, and the ears are short, erect, hairy, and hid in the fur; the mouth opens pretty largely, and, when thut, the upper lips receive the lower within their edges; at the fore part of the fnout the lips are thin, and meet together without overlapping, the lower lip being rather longer; and they form occasionally a projecting tube for fucking; the tongue is long, flat, broadish, and rather thin at the extremity, which is fquared; the noftrils are covered by a lengthened flap, like a fecond upper lip, which lies flat over them, extending as far forwards as the upper lip, and feparated from it by a horizontal flit on each fide, above an ineh deep; the fore part of the upper jaw and fnout, for about four inches, wants bone, and its place is supplied by a moveable eartilage, seemingly articulated to the fore part of the upper jaw bone; by raifing this upwards, the animal can open its mouth without separating the jaws, and it employs this method when sucking in drink or fost food; the tail is very short, and is covered with the same black hair as the rest of the body; the legs are distant, short, strong, and covered with the same kind of hair as the body; the fore legs are somewhat arched outwards, and allow of confiderable lateral action; the feet are fmall, and hairy on the upper parts, but have naked black foles; each foot has five short toes, set close together, and furnished with long, narrow, hooked, white claws, about three inches long, and not retractile. The whole length of the animal is about four feet and a half, measured from the origin of the tail, along the arch of the back, to the end of the fnout: It is about three feet high to the middle of the back when standing, and near five feet in circumference.

The general afpect of this animal, which is a female, is lurid, heavy, clumfy, and forbidding, though not of a ferocious appearance; having a general refemblance to a mixture between the Bear, the Sloth, and the Hog. In its ftate of confinement it always keeps a groveling position, on its belly, with its snout lying on the ground; and, even when forced to rife, still keeps the head exceedingly low and slouehing. When irritated, it gives one short, harsh cry, between a grunt and a roar, which it does not repeat but on a second provocation. It eatehes at any thing presented to it with one or both fore feet, carrying the substance to its mouth, and biting hard with the grinders on one side. The general colour is black, except the face, which is dark grey, and a few grey spots between the legs, and on the breast and belly.

In its prefent state of consinement, the keeper says that it feeds on bread, and is fond of fruit, raw eggs, fat, and marrow, but will not eat roots. When any thing sluid is presented, it sucks strongly through a tubular opening of the lips, already described. The keeper says, that this animal was dug out of a fand hill near Patna in Bengal; and that, on several occasions, when loose, it has immediately endeavoured to burrow in the ground. I am inclined to think, however, that the seet are formed for climbing trees, and by no means for digging; as the soles, especially of the fore seet, are narrow, and as the claws are narrow and hooked: Besides, it is fond of fruits which grow on trees, and rejects roots which are dug out of the ground.

This animal is hitherto a non-descript, at least so far as I can learn, and was lately exhibited in Edinburgh, under the soolish name of Lion-monster; but by what name it is known, in the language of the country from whence it came, the keeper is not informed; neither does he know any thing of its history or native manners. It comes nearest in generic characters to the Sloth, with which I have arranged it; and the foregoing description will give a general idea of the animal to naturalists, until its history can be investigated more accurately when its place comes to be known.

Since writing the above, I have feen a description of the same individual, accompanied with a very accurate wooden cut, by Mr Bewick of Newcastle, Gen. Hist. of Quad. 2d ed. p. 266, who supposes it congeneric with the Bear: To this opinion I cannot subscribe, as all the generic characters of that genus are entirely wanting in the animal under consideration. The same individual is described, under the name of Ursine Sloth, in the Naturalist's Miscellany; and I am happy to find that the ingenious author of that useful publication has referred it to the same genus in which it has been placed, in the manuscript of this work, ever since its appearance in Edinburgh.—T.

VI. ANT-EATER. -6. MYRMECOPHAGA. 8.

Has no teeth: The tongue is round, and capable of being advanced very far out of the mouth, which is very narrow, and placed at the extremity of the fnout. The body is covered with hair.

This genus feeds on ants, the nefts of which they dig up with their claws, and draw out the infects by inferting their long tongues into the nefts. They may be tamed, and will live for a long time without food. They fleep during the day, with their heads reclined under the fore legs, and go out in the night, in quest of food. Their fur is exceedingly thick fet.

1. Two-toed Ant-eater. - 1. Myrmecophaga didactyla. 1.

Has two toes on the fore paws, and four on the hind feet; and a bushy tail. Mus. Ad. Fr. i. 8.

Two-toed ant-eater, with a fhort fnout, having two toes on the fore, and four on the hind feet. Briff. quad. 98.—Tamandua, or White coati, from America. Seba, Muf. i. 60. t. 37. f. 3.—Little ant-eater. Edw. av. t. 220.—Fourmiller. Sm. Buff. v. 352. pl. cxlviii.—Leaft ant-eater. Penn. hift. of quad. n. 372. pl. l.

Inhabits South America.—Walks very flowly on the heels. The body is of a yellow colour. This species is smaller, and has a shorter muzzle than the other species of the genus. According to Mr de la Borde, this animal is of a bright reddish colour, bordering on golden yellow, and is about the size of a squirrel: The tongue is spiral, and like a worm: It has no cry, and feeds only in the night. By Mr Pennant, this species is described as having a conical nose, a little bent downwards; small ears hid in the fur; the body and head being seven inches and a half long, and the tail eight and a half; the head, body, limbs, and upper part and sides of the tail, are covered with long, soft, silky hair, or rather wool, of a yellowish brown colour; the tail is thick at the base, and tapers to a point; being naked for the last four inches, on the lower side, and prehensile.

The figures of this animal, as given by the Count de Buffon and Mr Pennant, differ remarkably from each other: In the former, the fore paw has only one claw, and the hind paws are fo confused, that only a flat, broad, palmated mass can be discovered, with a kind of thumb or false toe on each fide of each paw; while, in the latter, the fore paws have each two, and the hind paws each four, distinct claws. The form of the head in these two figures is likewise very different; but in both

the tail is prehenfile. Where two fuch great naturalists differ so very materially, I do not pretend to ascertain which is right; but it seems probable that these are two distinct species; and, if so, that the species described by Busson should be called the Myrmecophaga monodactyla: Perhaps his sigure might be taken from a mutilated dry skin.—T.

105

2. Three-toed Ant-eater. - 2. Myrmecophaga tridactyla. 2.

Has three toes on the fore, and five on the hind feet; and a bushy tail.

141

142

143

Three-toed ant-eater, with a very long fnout, having three toes before and five behind, and long flaccid ears. Briff. quad. 27.—Tamandua-guacu. Seba, Muf. i. 60. t. 37. f. 2.

Inhabits India.—Travels very flowly; climbs trees; defends itself with its broad tail against slies, using it as a fly-flap; has two paps on the breast and fix on the belly; the back has a longitudinal mane, and there is a black stripe on each side; the tail is flat, and covered with long hairs, which are black on the under side and white at the top. Dr Gmelin is uncertain if this be a distinct species?

3. Great Ant-eater. - 3. Myrmecophaga jubata. 3.

Has four toes before, and five behind; the tail covered with flowing hairs. Schreber, ii. 203. tab. lxvii.

Four-toed ant-eater, with a very long fnout, having four toes before, and five behind, and the tail covered with very long hairs. Briff. quad. 24.—Tamandua-guacu. Marcgr. Braf. 225.—Tamanoir. Sm. Buff. v. 333. pl. cxlvii.—Great ant-eater. Penn. hift. of quad. n. 369.

Inhabits South America, and the kingdom of Congo in Africa.—This animal covers itself with the tail when asleep, and to guard against rain; it has a black stripe on the side and breast; the tail is very thickly covered with long hair, and the hairs are not round but flat. The sless of this animal is eaten by the natives of America.

From the end of the muzzle to the origin of the tail, it is about four feet long; the head is about fifteen inches, and the tail about two feet and a half; this last being covered with coarse hair above twelve inches long; the muzzle is immoderately long, the neck short, the head narrow, the eyes small and black, the ears roundish, the tongue thin, above two feet long, and, when not stretched out, is folded up in the mouth; the legs are about a foot long; those before are a little longer and thinner than the hind legs; the feet are round, having four claws before, the two middle ones being longest, and five short claws behind: The hair on the body and tail is mixed black and white; the hair on the tail is disposed like a feather, and the animal, when he wants to defend himself from rain, or the heat of the sun, turns it on his back, and covers his whole body; there is a black stripe on the breast, which stretches along the sides, and terminates on the back near the thighs; the hind legs are nearly black, and those before are almost white, with a black spot about the middle.

B. Short-nofed Great Ant-eater. - Myrm. jubata sima.

This animal, which was fent from Guinea to the Count de Buffon, has a shorter muzzle than the former; the distance between the eye and ear is less, and the legs are shorter; the claws are similar:

The muzzle, to the ears, is covered with short brown hairs; about the ears the hairs begin to grow Vol. I.

147

longer; and on the fides of the body it is two inches and a half long, and as hard as that of a wild boar: It is of a mixed deep brown and dirty white colour: The length of the body and head is three feet eleven inches. Sm. Buff. v. 347.

144 4. Tamandua.—4. Myrmecophaga tetradactyla. 4.

Has four toes before, and five behind; with a naked tail. Schreber, ii. 205. tab. lxvi.

Ant-eater, with a very long fnout, having four toes before and five behind, and the tail almost naked. Briff. quad. 26.—Tamandua. Sm. Buff. v. 344.

Inhabits South America.—Goes out only in the night, and fleeps during the day: When irritated, feizes on a flick, or other object, with his fore claws, and fights on end, fitting on his hind legs: The extremity of the tail is naked and prehenfile, by means of which he is enabled to fuspend himself from the branches of trees: Has a black stripe on the breast and side.

5. Five-toed Ant-eater. - Myrmecophaga pentadactyla.

Has five toes on the fore paws; and a long flat tail entirely covered with hair. Sm. Buff. v. 350. pl. cxlix.

Striped ant-eater. Penn. hist. of quad. n. 731.

The head is thick, and the upper jaw and fnout are very long, having the mouth placed far from the extremity; the eyes are very small; the ears small, rounded, and fringed above with large black hairs; the hair on the whole body is long; on the back, head, and legs, it is tawny, and striped with black or dusky, and on the belly it is of a dirty white colour; the tail is wholly covered with long tawny yellow hair, barred across with rings of a blackish tinge: The body, from the tip of the nose to the rump, is thirteen inches long, and ten inches in height; and the tail is seven inches long.

β.—Befides this animal, which the Count de Buffon supposes only a variety of the Tamandua, he mentions another from the information of Mr de la Borde, under the name of Little Tamanoir, which has whitish hair about two inches long, weighs above fixty pounds, has no teeth, and very long claws; having the same manners with the other animals of the genus, feeding only during the night, and frequenting the great forests: But this account is by no means sufficient to ascertain whether it be a distinct species, or, if only a variety, to what species it should be referred.

б. Cape Ant-eater. - 5. Myrmecophaga capensis. 5.

Has four claws on the fore paws; a long fnout; large pendent ears; and a tail, which is shorter than the body, and taper at the point. Pallas, Misc. 2001. n. 6.

Inhabits the country at the Cape of Good Hope.—This animal is much larger than the other fpecies of the genus, fo that Kolben compares it to the fize of a hog, and afforts that it weighs a hundred pounds: It burrows in the ground, fleeps during the day, and only goes abroad at night.

149

VII. MANIS.—7. MANIS. 9.

Has no teeth: The tongue is round, and very extensile; the mouth is small, and is situated at the extremity of the snout; the upper parts of the body are covered with moveable bony scales.

The animals of this genus live on ants, worms, and lizards; they have no voice; they walk flowly, burrow in the ground, and go out only during night in fearch of food: When irritated, they erect their feales on end; and; when in danger from enemies, they contract themselves into a globular figure, the head and tail being drawn together under the belly, so that nothing appears but a globe, all prickly with erected sharp scales; the tail is fat, and greatly esteemed by epicures; the whole upper parts of the body are clothed with scales, which are chanelled at their bases, and stand sufficiently distinct from each other to allow of motion; they are laid over each other like tiles, a good deal refembling the calyx of an artichoke; the belly, breast, and insides of the legs and thighs, are hairy; and the tail is covered on every side, even below, with scales; the ears are rounded and naked; the middle claws of the fore paws are larger than the rest, and these are bent under the foot in walking. These animals have a strong affinity with the Ant-eaters, from which they chiefly differ in the covering of the body.

1. Pangolin.—1. Manis pentadaetyla, 1.

Has five toes on all the feet. Act. Stock. 1749, p. 265. t. 6. f. 3. Schreber, ii. 210. tab. lxix.

Philodotus pentadactylus, having five toes both on the fore and hind feet, and roundish scales. Briss. quad. 29.—Indian scaly-lizard. Bont. Jav. 60.—Lesser scaly-lizard, having brissless intersperfed. Petiv. gaz. 32. t. 20. f. 2.—Larger scaly-armadillo of Ceylon, called Diabolus tajovanicus. Seba, Mus. i. 88. t. 54. f. 1. et 53. f. 4.—Scaly ant-eater, Myrmecophagus squamosus, or Daemon thebaicus. Herm. Mus. 295.—Pangolin. Sm. Buss. v. 355. pl. cl.—Short-tailed manis. Penn. hist. of quad. n. 368.—Five-toed manis. Nat. Misc. pl. 11.

Inhabits Guinea, China, India, and the islands of the Indian Ocean.—This is the larger species of the genus: The fore feet are covered with scales to their extremity; the scales are large, thick, convex, not much chanelled, rounded, and sharp at the edges; the under parts of the body have no hair; but, between the scales on the back, are a few long thick hairs, like hogs bristles: When full grown, it is from six to eight feet long, including the tail, which is almost as long as the body.

2. Phatagin.—2. Manis tetradactyla. 2.

Has four toes on all the feet. Schreber, ii. 211. pl. lxx.

Philodotus tetradactylus, having four-toed feet, pointed feales, and a very long tail. Briff. quad. 31.—Foreign fealy lizard. Cluf. exot. 374.—Indian lizard, of the fame genus with the Yvana. Aldr. ovip. dig. 668. t. 667.—Scaly-lizard. Grew's rarities, 46.—Phatagin. Sm. Buff. v. 355. pl. cli.—Long-tailed manis. Penn. hift. of quad. n. 367.

O 2. Inhabits

Inhabits India.—This species is much less than the former: The fore feet, and even a part of the fore legs, are destitute of scales and covered with hair; the scales are much striated, or chanelled, and are each armed with three sharp points; the lower parts of the body are covered with hair, and there are no bristles among the scales: One, formerly in the British Museum, was a yard and a half long, of which the tail was a yard and half a quarter, the body, including the head, being only fourteen inches. These animals roll themselves up like a clue, the tail forming a belt round the body, with all its scales erected: In this state they brave the sury of their enemies, even of the tigers, which endeavour in vain to devour them.

VIII. ARMADILLO.—8. DASYPUS. 10.

Has no tusks: The grinders are short and cylindrical, and of these there are seven on each side in the upper jaw, and eight on each side of the lower; the body is covered with a testaceous bony coat of mail, which is intersected by circular bands of the same kind.

The animals of this genus * live on roots, melons, potatoes, flesh, fish, infects, and worms; they burrow in the ground, remain in their holes all day, and only go out during the night; are of mild and gentle dispositions, and defend themselves from their enemies by rolling themselves into a globular form, presenting their shell or armour on all sides. They chiefly inhabit South America. The females bring forth every month.—As very considerable consusion seems to have crept into the arrangement of the species of this genus, I have preserved the arrangement of the Count de Buffon, to that of Linnæus, in the following enumeration of species; but the characters and synonimes of Gmelin's edition of the Systema Naturae are preserved.—T.

All the species of this genus are covered on the head, neck, back, flanks, rump, and tail, even to its extremity, with a crust resembling bone, which is itself covered with a thin, smooth, transparent, skin: The only parts which want this crust are the throat, breast, and belly, which have a granulated skin, like a plucked fowl, on which, by accurate inspection, the rudiments of scales, similar to the crust, are discoverable: The crust is divided into several bands or girdles, connected together by membranes, which allow a certain degree of movement to this armour. All the species have two bony shields, one covering the shoulders, and another on the rump, except the Cirquinçon, or eighteen banded species, which has only that on the shoulders. They are hunted with little dogs, which give notice, by the scent, of their haunts, whence they are dug out; being very good to eat.

1. Apara. - 3. Dafypus tricinctus. 2.

Has three moveable bands or girdles, and five toes on all the feet. Houtt. nat. ii. 280. t. 16. f. 2. Schreber, ii. 215. tab. lxxi. A. and lxxvi. 1. 2.

Cataphractus tricinctus, having two fhields and three belts. Briff. quad. 24.—Tatou, or Armadillo. Red. exper. 91. t. 92. Seba, Muf. i. 62. t. 38. f. 2. 3.—Tatu-apara. Marcgr. Braf. 232. Sm. Buff. v. 366.—Armadillo, or another kind of Tatou. Cluf. exot. 109. Grew, Muf. 17.—Three-banded armadillo. Penn. hift. of quad. n. 361.

Inhabits

The Iron-pigs, and Sheild-hogs, of some writers .- T.

Inhabits Brafil.—Lives on melons, potatoes, and poultry. The middle belt, in the armour of this species, is very narrow; and each scale, of which the shields are composed, is knobbed on the surface: The head is oblong and almost pyramidal; the eyes are small; the ears short and rounded; and the top of the head is covered by a helmit of one piece: All the feet have five toes; the two middle claws on the fore feet are very large, the claws on each side of these are smaller, and the sisth, or exterior claw, is very small; the claws on the hind feet are smaller, and more equal in size, than those before: The body is a foot long, and eight inches broad; the tail is not above two inches long, and entirely covered with crust: The shields, on the shoulders and rump, consist of sive cornered pieces, very regularly arranged; the three moveable girdles are composed of square or oblong pieces, having a number of lenticular scales, of a yellowish white colour, on each.

2. Four-banded Armadillo.—4. Dasypus quadricinetus. 3.

Has four moveable bands.

151

152

Cataphractus quadricinctus, having two shields and four belts. Briss. quad. 25.—Cheloniscus. Fab. Columna, anim. aqu. et ter. ii. 15. t. 16.

Its place uncertain.—Dr Gmelin is uncertain whether this should be considered as a distinct species, or merely as a variety of the Apara? He is likewise at a loss whether the Four-banded Armadillo of Molina, Hist. Nat. Chil. lib. iv. 270. be the same with this, or if it should be considered as a distinct species.—The Count de Busson is very angry with Linnæus for admitting this sour-banded species on the authority of Columna, who did not know the name of the animal, and had only seen a dried specimen contracted in form of a ball, pasted clumsily together, and even some pieces of it wanting. Busson even peremptorily insists that a Four-banded Armadillo has no existence in nature: The circumstance, however, of such a species being mentioned by Molina, though not with sufficient accuracy to enable Dr Gmelin to give a systematic description, shows how much even Busson ought to have been guarded in animadverting on Linnæus.

3. Encouberto.—5. Dasypus sexcinctus. 4.

Has fix moveable girdles, and five toes on every foot. Muf. Ad. Fr. 7. Schreber, ii. 218. tab. lxxi. B.

Cataphractus fexcinctus, having two shields and six belts. Brisl. quad. 25.—First Tatu, or Armadillo of Marcgrave. Raj. quad. 233.—Tatu, or Tatu-paba, of the Brasilians, Armadillo, of the Spanish, and Encouberto, of the Portuguese. Marcgr. Bras. 231. Olear. Mus. 7. t. 6. f. 4. Clus. exot. 330.—Encouberto. Sm. Buff. v. 369. pl. clv.—Six-banded armadillo. Penn. hist. of quad. n. 362.

Inhabits South America.—Lives on melons and other fruits, and on potatoes and other roots, being exceedingly troublefome to the plantations: Is very good eating. The penis is very confpicuous and fpiral, having a flat compreffed glans, with thickened edges; the back of the neck is covered by a particular little shield. This is larger than the former species. The top of the head, the neck, body, limbs, and tail, are covered with a very hard crust, composed of pretty large pieces, most elegantly placed; on the skin of the joints are several whitish hairs, similar to those on the throat, breast, and belly; the shield on the rump has a fringed border; all the inferior parts of the body are cover-

154

ed with a granulated fkin; the cruft on the head is long, broad, and confifts of one piece, reaching as far as the moveable band, or finall fhield, on the neck; the muzzle is fharp, and, with the head, refembles a pig; the eyes are finall and funk; the tongue is narrow and pointed; the ears are fhort, brown, and naked: There are eighteen teeth in each jaw; the tail is thick at the rump, narrowing to the point, where it is thin and rounded; the body is of a reddish yellow colour, and is commonly very plump and fat.

4. Seven-banded Armadillo. - 6. Dasypus septemcinetus. 5.

Has feven moveable bands; the fore feet have each four toes, and the hind feet five. Amoen. acc. i. 281. Schreber, ii. 220. t. lxxii. lxxvi. f. 3. 4.

Tatus, a foreign quadruped. Gefn. quad. 103.

Inhabits South America.—Dr Gmelin adds, that it inhabits India, and that, in reality, there are only fix bands. The shield on the shoulder is notched on its anterior margin.

The Count de Buffon, vol. v. 369. in a note, quotes Marcgrave as faying, "In dorso feptem funt divisurae, cute susceptible intermedia." He applies this to the Encouberto, or fix-banded species, and makes the following observation, which seems intended as a reflection against the great Linnæus: "The word divisurae, as well as commissurae, and juncturae, signify the intervals between the bands, and not the bands themselves; seven intervals are necessary to make six bands." This criticism might possibly be just, though, even then, I should scruple to subscribe to it, if the former part of the sentence, seven divisions on the back, were not followed by the latter, baving a brown skin between each. It is very evident that the brown skin could not be interposed between the intervals of the bands, but in the intervals, and between the divisurae; there must therefore have been in the animal, as described by Marcgrave, and as understood by Linnæus, seven solid bands or divisions of the shell, produced by means of eight intervals.—T.

5. Eight-banded Armadillo. - 7. Dasypus octocinetus. 8.

Has two shields and eight bands. Schreber, ii. 222. lxxiii. lxxvi. f. 5. 6.

Cataphractus octocinctus, having two shields and eight bands. Briss. quad. n. 27.—Aiatochtli. Hernaud. Mex. 314.—Tatouete. Sm. Buff. v. 371.—Eight-banded armadillo. Penn. hist. of quad. n. 363.

Inhabits Brassl.—Dr Gmelin is uncertain whether this and the D. Septemcinctus, may not be the same animal, and whether it differs from the eight-banded species described by Molina in his Natural History of Chili, book iv. p. 271. which has five toes on each hind foot? The head is small, and covered with a helmet; the muzzle is sharp; the ears are about two inches long, and erect; the eyes are small and black; there are four toes on the fore, and five on each hind foot. It is about ten inches long, from the t'p of the nose to the rump, and the tail is nine inches long, being covered with moveable rings, divided into nine joints by interposed slexible skin; the crust on the back is of an iron-grey colour; the slanks and tail are whitish grey, spotted with iron-grey; and the belly is covered with a whitish granulated skin, interspersed with a few hairs; the legs are about three inches long; the crust of the shields is interspersed with prominent white knobs, about the size of small peas;

157

and the moveable bands are marked with triangular figures: The crust is easily penetrated, even with small shot; and the sless is very white, and reckoned extremely delicate eating.

6. Nine-banded Armadillo. - 8. Dasypus novemcinetus. 6.

Has nine belts; the fore feet have four claws, and the hind feet five. Mus. Ad. Fr. 6. Houtt. nat. ii. 284. t. 16. f. 3. Schreber, ii. 223. tab. lxxiv. lxxvi. f. 7. 10.

Cataphractus novemcinctus, having two shields and nine belts. Briss. quad. 42.—Tatus. Gesu. quad. 935.—Tatu-ete. Marcgr. Brass.—Tatu, or American Armadillo. Seba, Mus. i. 45. t. 29. f. i.—Armadillo, or Aiatochtli. Nieremb. hist. nat. 158. upper fig.—Pig-headed armadillo. Grew, Mus. 18.—Cachichame. Sm. Buss. v. 373. pl. clii.—Nine-banded armadillo. Penn. hist. of quad. n. 364.

Inhabits South America, being particularly common in Guiana.—The flesh is very good eating. Dr Gmelin expresses his uncertainty whether the eleven-banded Armadillo of Molina, having four toes on the fore-feet, and five behind, Hist. Nat. Chil. book iv. p. 271. be a distinct species, or if it should belong to this place as a variety? The Count de Busson thinks it probable that this nine-banded Armadillo is the male of the former, or eight-banded species. The head is five inches long, the body eighteen, and the tail a foot, or perhaps more; as in another specimen, considerably smaller, the tail was eleven inches, while the body was only seven and a half; the head is long and narrow, with a long sharp pointed muzzle, and longish blunt ears; the crust on the shoulders, rump, and head, is marked with fix-sided sigures; and the divisions of the belts with transverse, wedge-like marks.

but the crusts on the head and other parts are covered with large scales, which want the above deferibed figures. Penn. hist. of quad. p. 501.

7. Kabassou. - Dasypus duodecemcinelus.

Has twelve moveable bands and five toes on all the feet. Sm. Buff. v. 375. pl. cliii.

Dafypus unicinctus. Syst. nat. ed. Gmelin. p. 54. G. 10. sp. 1.—Cataphractus duodecemcinctus, with two shields and twelve belts. Briss. quad. 43. Schreber, ii. 225. tab. lxxv. lxxvi. f. 11. 12.—Tatu, or African Armadillo. Seba, Mus. i. 47. t. 30. f. 3. 4.—Armadillo. Penn. hist. of quad. n. 365.

Inhabits South America.—In the Systema Naturae, misled by the mistake of the editor of Seba's Museum, it is said to come from Africa. The covering of the fore part of the back is made up of seven series of little shields, and on the hind part of nine. The head is thicker and broader, and the muzzle less slender than in the other species; the legs and seet are also thicker; the shield on the shoulder is made up of sour or sive rows, composed of large four-sided pieces; the moveable bands are also composed of almost square and large pieces; those of the rump shield are similar to the shoulder shield; the helmit is made up of large irregular pieces: Between the joints, and in other parts of the armour, are some bristly hairs; on the breast, belly,

3:50

legs, and tail, are the rudiments of fcales, which are round, hard, polifhed, and furrounded with small tufts of hair: The head is seven inches long, the body twenty-one inches, and the tail is shorter than the body.

8. Largest Armadillo.—Dasypus maximus.

The legs and tail are covered with a skin which is divided into regular lonzenge shaped scales; the shell has twelve moveable bands. Sm. Buff. v. 377. pl. cliv. Penn. hist. of quad. p. 501.

Inhabits Cayenne.—This has likewife twelve moveable bands; is of a black colour, and much the largest species of the genus, being two feet ten inches in length, from the tip of the nose to the origin of the tail, which is one foot eight inches long; the tail is thick at the rump, and tapers to a point, being covered with a skin divided into regular lozenge shaped scales, as are the legs; the head and muzzle are longish, and the ears are small and erect: The semale brings forth eight, and sometimes ten, at a litter, in very deep holes. It feeds, during the night, on worms, wood lice, and ants; and the sless good, resembling that of a pig in slavour.

9. Cirquincon.-2. Dasypus novemdecemcinctus. 7.

Has no shield on the rump, and eighteen bands cover the back, from the shield on the shoulder to the origin of the tail. Sm. Buff. v. 377.

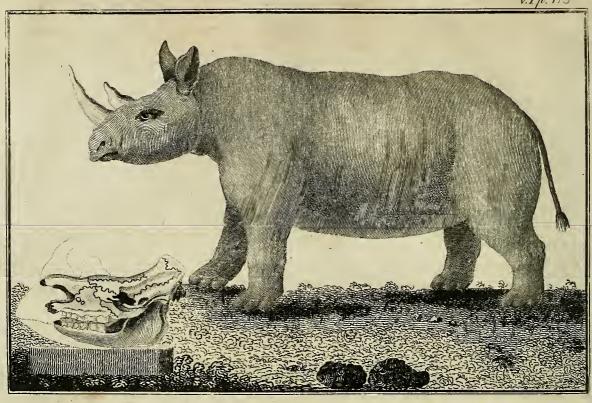
Dafypus novemdecemcinctus, or having eighteen bands, with a fimple covering. Syst. nat. ed. Gmelin, p. 55. n. 7. Syst. nat. ed. vi. n. 12. 1. \(\beta\).—Cataphractus novemdecemcinctus, having only one shield and eighteen belts. Briss. quad. 37.—Tatu mustelinus, or Weasle-like Tatu. Raj. quad. 225.—Weasle-headed armadillo. Grew, Must. 19. t. 1.

Inhabits South America.—Dr Gmelin is uncertain if this be really diffinct from the four-banded fpecies, and from the eighteen-banded, described by Molina, Hist. Nat. Chil. book iv. p. 271. which has four toes on the fore legs? All the other armadillos have two shields, one on the shoulders, and another on the rump; but this species has only one, which is on the shoulders. The body is about ten inches long, the head three, and the tail five; the legs are two or three inches long; the head resembles that of a weasel, having a large flat forehead, small eyes, and the ears about an inch long; the armour of the head and legs is composed of round scales, about a quarter of an inch diameter; that of the neck, in one piece, is formed of small square scales; the shield on the shoulders is formed of rows of similar scales, adhering sirmly together; from thence to the tail are eighteen moveable bands, of which the anterior are larger, and are formed of square and oblong pieces, and the posterior smaller, and composed of round and square pieces mixed; all these bands are united by a slexible skin; the first half of the tail is covered with fix rings of small square pieces, and the rest, to the point, with irregular scales; the breast, belly, and ears, are naked.

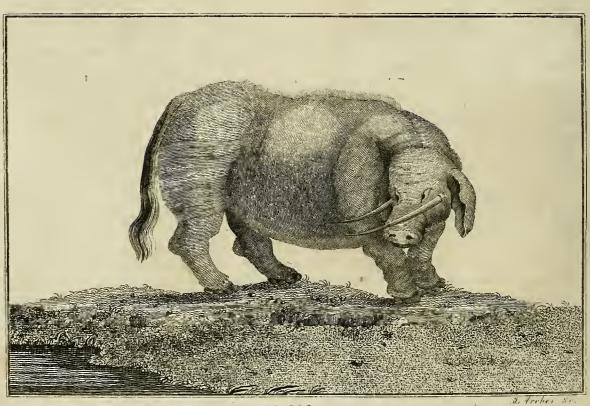
10. Long-tailed Armadillo.—Dasypus longicaudatus.

Has nine moveable bands, and a very long jointed tail. Sm. Buff. v. 390. pl. clvi. American armadillo. Dr Watfon, Phil. Tranf. liv. pl. 7.





Nº 162



Inhabits America.—Is about the fize of an ordinary cat, and weighs feven pounds: Was fed on flesh and milk, and refused grain or fruits.

113

IX. RHINOCEROS.—9. RHINOCEROS. 36.

Has a folid, perfiftant, conical horn, fituated on the nofe, and not adhering to the bone.

1. One-horned Rhinoceros. - 1. Rhinoceros unicornis. 1.

Has only one horn.

161

Gefn. quad. 842. Raj. quad. 122. Klein, quad. 26. Grew, muf. 29. Worm. muf. 336. Briff. quad. 78. Parfons, in phil. tranf. xlii. 523. Edw. av. tab. 221. f. 2. Plin. l. viii. c. 20. Knorr, delic. ii. 110. t. K. X. Albin. tab. mufc. 4. 8. Schreber, ii. 44. tab. lxxviii. Br. muf. Afhm. muf. Lever. muf. Sm. Buff. vi. 92. pl. clxiv. Penn. hift. of quad. n. 67.

Inhabits between and near the Tropics, in marshy places, being found in Bengal, Siam, Cochin-China, Quangii in China, in the islands of Java and Sumatra, and in Africa.—This animal is mentioned in the book of Job under the name of Reem, and was not unfrequently exhibited in the public fights of animals in the Roman games; yet was unknown in Europe during a long feries of years, no specimens having been seen before the fixteenth century. It lives on thorns and other spinous plants, and is fond of wallowing in the mire; may be tamed in fome degree, and becomes mild, unlefs when provoked; but, when enraged, will even overturn trees with its violence. The male voids his urine and copulates backwards: The fight of this animal is weak, but its hearing, and fenfe of finelling, are remarkably acute: In stature and magnitude of body, except that the legs are shorter, this animal equals the elephant, but falls vastly behind in fagacity and docility: In form, in manners, and in its grunting voice, it comes nearer to the Hog genus, especially the Ethiopian species. Ikin is fo hard that it refifts the effect of arrows, fwords, or even of musket balls, which rebound from it without doing injury; it is entirely naked, except the tail and ears; it is divided by feveral folds, or transverse plaits, which are very conspicuous and regular in their situation; 1st, behind the head; 2d, on the shoulders; 3d, from the back down the loins, before the thighs, and along the belly; 4th, crofs the thighs: Thefe allow of motion to the fkin, which is hard and inflexible like a shell or coat of armour; the inside of the plaits being composed of a very soft pliable skin; the skin on the belly is foft, like that within the plaits; the flesh is coarse, spongy, and hardly eatable; the tongue is foft and finooth; the horn is fibrous in its texture, furrounded with coarse hair at the root, is conical, and tapers to a sharp point, and is sometimes three feet long: In adults there are no fore-teeth, but, in young animals, a few folicary straggling cutting teeth are found, which stand at confiderable diffances from each other; the feet have each three hoofs, which are placed on the fore part; the tail is finall, narrowing towards the point, and only reaches to about the middle of the hind legs.

Vol. I.

363

Has two horns.

2. Two-horned Rhinoceros.—2. Rhinoceros bicornis, 2.

Syst. Nat. ed. x. p. 56. n. 2. Sparman, act. Holm. 1778; trim. 4. n. 5. D°. voyage to the Cape of Good Hope, 4to, London, 1784, vol. ii. 96. pl. 3. Martial, spect. epig. 22. Phil. trans. abr. ix. 100. & xi. 910. Phil. trans. lvi. 32. t. 11. Kolben, ii. 101. Flacourt, Madagas. 395. Lobo, Abys. 230. Bruce, Abys. v. 85. & sig. Penn. hist. of quad. n. 66. pl. xv..

Inhabits Africa.—The bones of this animal, as we are lately affured by Pallas, are often found buried even in the north of Russia. This species or variety, is formerly mentioned by Pausanias and Martial, is represented on the Prenestine pavement, and on a coin of the Roman Emperor Domitian, and is described by Cosmas Ægyptius, who travelled into Ethiopia, in the fixth century, under the reign of Justinian. The difference between this and the former species can scarcely be attributed to age or sex; though Dr Gmelin seems hardly to consider them as different species. The sless refembles that of the hog; and the viscera are similar to those of the horse; it has no gall-bladder, and no fore-teeth; the second horn is situated above the first, or nasal horn, nearer the fore-head. A variety of this species, having three horns, occurs very rarely; the third horn being only a kind of excrescence from one of the other two.

If both Sparrman and Bruce are faithful in their representations of the Rhinoceros with two horns, the animals they describe are by no means of the same species: The figure given by Mr Bruce exactly corresponds with the description already given of the one-horned Rhinoceros in every thing but the additional horn, so that, mutatis mutandis, it may serve for either; on the contrary, the figure given by Sparrman differs totally from that of the one-horned species, for the remarkable folds on the skin are entirely wanting: Sparrman has the good fortune to have the authenticity of his representation not a little strengthened by the figures of two Rhinoceroses, each with two horns, one on the Prenestine pavement, and another on a medal of Domitian, in both of which the skin is smooth. I am therefore forced to believe that the Abyssinian Rhinoceros, as represented by Mr. Bruce, is only a variety of the Asiatic, or one-horned kind, while that of Sparrman is a distinctly different species.—T.

X. SUKOTYRO.—SUKOTYRUS.

Has a horn on each fide of the head close to the orbits.

1. Javan Sukotyro.—Sukotyrus indicus.

Has a short, narrow, upright mane, along the back, from the back of the head to the rump. Nieuhoff, voy. to India, in Churchill's coll. ii. 360. & fig...

Inhabits the Island of Java.—The Sukotyro, as the Chinese call it, is a very odd shaped beast; it is of the bigness of a large ox, with a snout like a hog, having two long rough ears, and a thick bushy tail; the eyes are placed upright in the head, quite different from other beasts; on the sides of the head, next to the eyes, stand two long horns, or rather teeth, not quite so thick as those of the Elephant; it feeds on herbage, and is but seldom taken. This is the description given by Mr Nieukoss.

hoff. By the figure, this animal is very thick and clumfy, with strong thick legs and feet; which last are each armed with four knobs, or half hoofs, on their fore parts; the nose is very broad and truncated; the ears are very large and flouching; the tail is covered with flowing hairs, and reaches lower than the middle of the hind legs; the skin is smooth, and is entirely free from plaits, like those on the one-horned Rhinoeeros.

XI. ELEPHANT .- 10. ELEPHAS. 3.

Has no fore-teeth in either jaw, and no tusks in the lower jaw; the tusks of the upper jaw are very long, and stretch far out of the mouth: Has a long, extensile, and slexible, cartilaginous trunk, or proboscis, on the nose, which is capable of laying hold even of very minute objects. The body is almost naked.

1. Great Elephant .- 1. Elephas maximus. 1.

There is only one known species of this genus.

Elephas. Briff. quad. 45. Raj. quad. 131. Seba, Muf. i. t. iii. f. 1.—Elephantis. Gefn. quad. 377. Aldr. quad. l. i. c. 9. Jonft. quad. 30. t. 7. 8. 9. Edw. av. t. 221. f. 1.—Elephant. Sm. Buff. vi. 1. pl. elxiii.—Great Elephant. Penn. hift. of quad. n. 70. Sehreber, ii. 60. tab. lxxviii. Br. muf. Afhm. muf. Lever. muf. Hunter's muf. Petr. G. Camper, Elephantographia, Lipf. 1723. P. Gilius, nov. defc. Eleph. at the end of Elianus de anim. Lugd. 1565, viii. 497.—525. Fr. Serao, op. de fisic. Napol. 1766. v. 1.—62. t. 1.—Its anatomy. Bibl. med. Dublin. 1681.

Inhabits the Torrid Zone, in Asia and Africa.—This wonderful animal is principally found in fwampy places, by the fides of rivers: It lives on the bark, leaves, and branches, of young trees and thrubs; being principally destructive to plantains, or the Musa paradifiaca, Coeeo palms, and the Guilandina femina, devouring even the wood of the muía; and feeds voraciously on grain, doing vast damage in corn fields. It is a gregarious animal, remarkably long lived, very docile, and exceedingly Tagacious, notwithstanding that the brain is extremely small in proportion to the bulk of the body. The probofcis, which is composed of a great number of eartilaginous rings, is very long, and is capable of extension and contraction in every direction; it is smooth below, and truncated at the extremity, where it is provided with a moveable hook, which ferves the purpose of a hand, and with which the animal can lift the finallest objects from the ground with great accuracy; this trunk is an extension of the canals of the nose, and is divided, through its whole length, by a continuation of the feptum; by means of this, the animal is delicately fenfible of finells; by it, likewife, he carries food and drink to the mouth, fucking up liquids, through its canals, into receptacles within the head, and afterwards injecting them into the mouth; this is likewife a chief inftrument of offence against end mies, and is so very necessary, that, when the trunk is out off, the animal unavoidably diesexceedingly afraid of mice, left, when affeep, they should get through the trunk into the wind pro-

The male discharges his urine backwards; and the semale has to lie on her back in copulation, and goes a year with young. The young sucks the mother by means of its lips applied to the teats, not by the trunk.

· This is the largest of all the race of quadrupeds, some having been found which weighed four thousand five hundred pounds. It carries vast loads on the back, sometimes even houses, and is guided by a keeper, named Cornack in the eaft, who rides on the animal's neck. He marches on with a tolerably quick pace, and fwims with great dexterity: Is armed, and employed in war, by the Indians; and, of old, was used in the same way by the Romans, being armed with crooked scythes; but, fince the invention of gun-powder, this animal has become greatly lefs proper for the purposes of war. When exceedingly furious, and dangerously ungovernable, they are readily killed by means of a finall wound, between the first and second vertebrae of the neck, which, penetrating to the spinal marrow, inftantly deprives them of motion. The body is ash coloured, seldom reddish or white, having only a few scattered hairs. The skin is exceedingly thick, hard, and tough, yet may be pierced by a musket ball, and is even sensible to the punctures of flies. The eyes are small; the tusks, which are only in the upper jaw, are stretched out from the mouth to a great length, resembling horns, and are marked with fibrous grains; these are the ivory of the shops, and are often so large that each weighs a hundred and fifty pounds; the ears are very large, broad, long, pendulous, and fomewhat notched, or dentated; the head is large and clumfy, and the neck is short; the female has two small dugs near the breast, a little behind the fore legs; the knees, contrary to vulgar opinion, are flexible; the feet are covered with a very tough and thick skin, which may be striped off entire, like the hoof of a horfe; from which circumftance the animal might, with no great impropriety, have been arranged under the order of Belluae; although, as the feet have the appearance of claws or mails, five on each fore foot, and four on each behind, it feemed more proper to arrange him in this. order, more especially as the female has two dugs placed in the axillac, or arm-pits, as they may be called.

The bones of Elephants have very frequently been found under ground in the temperate, nay even in the frigid Zones, and in America. Vide Pallas, Nov.-com. Petrop. xiii. & xvii. Merk, fur les os fossiles d'Elephans et de Rhinoceros, &c. Darmst. 1786, 4. Lettres 1.—3.

2. American Elephant.—Elephas americanus.

In America, on the banks of the Ohio, are found, feveral feet below the furface, in a marshy place called Big-bonc-swamp, great numbers of tusks and grinders, supposed by many to belong to the Elephant: But the grinders are totally different, being covered uniformly with enamel, and furnished with a double row of high conic processes, like those of carnivorous animals; whereas those of the Elephant are composed of alternate perpendicular layers of bone and enamel, and are ribbed transversely on their upper surfaces, like those of graminivorous quadrupeds: Hence the species must be entirely different; and Mr Pennant has chosen to suppose that they have belonged to an unknwn species of this genus, which he names the American Elephant. Hist of Quad. n. 71. These teeth and bones are likewise found in Peru and Brasil. Mr Pennant and Dr Gmelin affert, from various authorities, that the fossile bones and teeth, so often found in Siberia, must be referred to the true Elephant; and various hypotheses have been devised, to explain in what manner this inhabitant of the Torrid Zone should have wandered to the fixtieth degree of north latitude for a grave. Where such great authorities are on one side, my feeble voice will scarcely be heard on the other; but I can safe-

ly affert, that all the grinders engraved in the supplemental vol. ix. of Smellie's translation of Buffon, and all those which I have seen in various cabinets, under the name of fossile, from America and Afia, exactly refemble those which Mr Pennant attributes to the American species of Elephant, and must, from the circumstances already pointed out, have belonged to an animal not in the least degree congeneric with the elephant. What this animal is, or has been, I pretend not to determine; but the opinion of the great Linnaus, that it is the Morfe, or Trichechus Rofmarus, is, I think, extremely probable; especially when it is considered that these bones have all been found by the sides of rivers, in places where, in all probability, the fea once flowed, though, by its gradual decrease, they are now become dry land: If not arms of the fea, thefe may have been vast inland lakes, like those still in America, and other places, which have broken through their lower banks and run out their waters. Many vaft valleys, at great diffances from the fea, still bear evident marks of this revolution; and even tradition, in fome places, as in Cashmire, points out the era. This remarkable circumstance of the conversion of an inland lake into a fertile vale is in no part of the world more evident than in the valley in Virginia, which is bounded at its lower extremity, following the water course, by the Rock bridge; here the waters have dug themselves a subterraneous passage, more than a hundred feet beneath the level of the cataract over which they must formerly have flowed .- T.

XII. WALRUS.—II. TRICHECHUS. 6.

Has no fore-teeth, when full grown: Has two great tusks, in the upper jaw, which point downwards: Has grinders on each side in both jaws, which are composed of surrowed bones. The body is oblong; the lips are doubled; and the hind legs are stretched backwards *, and, as it were, bound together, forming a kind of tail sitted for swimming.

All the species of this genus inhabit the sea, and feed on sea-weeds, corallines, and testaceous animals, or shell fish, never eating slesh.

1. Morse.-1. Trichechus Rosmarus. 1.

166

The tusks, which extend far out of the mouth from the upper jaw, are distant from each other. Houtt. nat. ii. 7. t. 11. f. 1. Schreber, ii. 262. tab. lxxix.

Odobenus. Syft. nat. ed. x. 38. Briff. quad. 48.—Rofmarus. Jonft. pifc. t. 44. Worm. muf. 289. Olear. muf. 38. t. 23. f. 3. Bonnon. muf. 269. f. 27. Gefn. aquat. 211.—Sea-horfe, Equus marinus, improperly called Hippopotamus. Raj. quad. 191. Ellis, Hudfon's Bay, t. 6. f. 3.—Wallrofs. Martin's Spitsbergen, 78. t. 1. f. B.—Morfe, or Walrus. Sm. Buff. vii. 354. tab. ccl.—Arctic Walrus. Penn. hift. of quad. n. 373. Arct. zool. n. 71. Br. muf. Ashm. muf. Lev. muf.

Inhabits:

This is termed pedes compedes, or fettered legs, and takes place in aquatic quadrupeds.—T

Inhabits within and near the Arctic Polar Circle, chiefly at the mouths of rivers, in Spitzbergen, Nova Zembla, Hudfon's Bay, the Gulph of St Laurence, the Icy Sea, all along the northern coafts of the Ruffian empire, both in Europe and Asia, but does not extend to the islands between Kamtfchatka and America.—This is a gregarious animal, being found in herds even of fome hundreds:: They are very fly, and avoid the haunts of mankind; are very fierce, defending themselves against their enemies with great obstinacy, and, if wounded in the water, will attempt to fink the boats of their affailants, either by rifing under them, or by firiking their great tufks into their fides: They roar very loud, like bulls, and fnore while afleep, which they often do in iflands of ice, when it is dangerous to approach, as they throw themselves with great impetuosity into the sea when disturbed. The youger animals have two finall fore-teeth in the upper jaw; and both young and old have two fharp tusks, very distant from each other, which stand much out of the mouth, pointing directly downwards, and a little bent inwards; thefe are a very fine grained ivory, and fometimes weigh thirty pounds; they are composed of delicately interwoven fibres, of a very fine white, and not readily becoming yellow, but the nucleus, or inner central part, verges towards a brownish colour; on each fide of each jaw there are four finall fharp grinders, having a fmooth pit, or hollow, worn out of each, near the apex or fuminit: The lips are very thick, and are garnished with long transparent briftly whifkers, as thick as ftraws; the noftrils are of a femilunar form; the head is round; the mouth finall; and the eyes are finall and fiery; the neck is very thick; there are two finall orifices to the organ of hearing, without any external ears; all the feet have five toes, which are provided with short claws; the fore legs are loofely articulated with the body, and short; and the hind legs are much extended backwards on a line with the body, standing close together, and serving more as a tail fin, for fwimming, than as feet; the tail is very fhort: The penis of the male is long. The Russians have long been in use to make traces for carriages of the skin, which has of late been employed in France for the same purpose. This animal is very fat, and is much hunted for the sake of the oil, as one Morfe will frequently produce half a ton. The skeleton of this animal, thrown on shore by storms, or left in the mud on the banks of rivers, during inundations, by the death of the animal, is in all probability the Mammouth of the Ruffians. It is fometimes eighteen feet long, and ten or twelve in circumference at the thickest part.

BRUTA.

This animal was known to King Alfred of England, fo long ago as about the year 890, from the information of Octher the Norwegian, who made a voyage beyond the North Cape of Norway to hunt Horse-whales, which have teeth of great value, some of which he brought to that King *.

2. Dugon. - 2. Trichechus Dugon. 3.

The tusks, which extend out of the mouth from the upper jaw, are placed near each other.

Dugon. Sm. Buff. vii. 370. Schreber, ii. 93.—Indian Walrus. Penn. hift. of quad. n 374.

Inhabits the feas lying between the Cape of Good Hope and the Phillippine iflands.—This animal, fo far as can be known, refembles the Morfe very much: The head is, however, more lengthened and narrower; the noftrils are larger, and placed higher; like the former species, there are no tusks in the under jaw, but those in the upper jaw are placed near each other, are bent outwards, and refemble cutting teeth, only that they are near fix inches long; there are four grinders on each

^{*} See Hakluyt's Voyage, i. 5.; and Forster's Account of Voyage the North.-T.

each fide in the upper jaw, and three in the lower; thefe last are distant from the tusks, and are broader than those of the Morse: The semale has two teats on the breast. The chin has a bristly beard; the ears are short; the feet broad; and the legs so short that the belly trails on the ground. When full grown, the animal is six ells in length; the male being rather larger than the semale, which has breasts like a woman: It feeds on a green sea moss, or weed, which grows near the shore. The figure, manners, and history, of this animal, are very impersectly known; but we are informed that its slesh eats like bees.

3. Fissi-tailed Walrus .- 3. Trichechus Manatus. 2.

Has no tusks, and no hind feet. Art. gen. 79. syn. 107.

168

Of this species the following varieties are noticed by Zoological writers.

α. Lamantin.—2. α. Trich. Manatus australis.

Is hairy; having three toes, provided with claws, on the fore paws.

Manatus. Rondel. pifc. 490. Gefn. pifc. 213. Hern. mex. 323. Briff. quad. 49. Cluf. exor. 133. Aldr. pifc. 728. Raj. quad. 193.—Lamantin. Sm. Buff. vii. 374. pl. ccli.—Round-tailed Manati. Penn. hift. of quad. n. 391..

Inhabits the African and American feas, particularly near the mouths of rivers, which they frequently enter, feldom going far from the shore. The Lamantin varies in fize from eight to seventeen feet long, is fix or feven in circumference, and from five hundred to eight hundred pounds weight: The skin is of a dark or black ash colour; there are nine square shaped grinders on each fide in each jaw, which are covered with a glaffy crust of enamel; the back bone has fifty joints, or vertebrae: It is a thick, clumfy animal, having no properly diffinct neck, as the body continues almost of an equal thickness to the head, which is somewhat of a conical shape, with a cylindrical muzzle and thick fleshy lips, the upper one hanging down at the sides like the chops of a hound; the eyes are very finall, not larger than a pea; the orifices leading to the internal ear are exceedingly minute, and there are no external ears; the feet are placed at the shoulders, and confist of three articulations, the foremost being flat, having five complete toes beneath the skin, hardly decernible on the outfide, and three or four flat rounded nails externally of a fhinning reddiff brown colour; the tail is long, horizontal, broad, flat, and rounded at the end, thick in the middle, and thinner at the edges: The female has two teats, placed near the arm-pits. This animal never comes on fhore, but frequents the mouths of large rivers, brouzing on the grafs which grows close to the water. Therefeems to be two varieties, differing confiderably in fize: The larger frequents the feas near the mouths. of large rivers; and the finaller is found higher up the fame rivers, and in inland fresh water lakes, but never goes to the fea.

We are told that this animal is often tamed by the native inhabitants of America, and that it delights in music; hence, according to some authors, it is probably the Delphinus, or Dolphin, of the ancients; and some believe, that what has been written concerning Mermaids and Sirens must be referred to this animal. It has a voracious appetite, and is perpetually eating: It is monogamious, or lives in families of one male, one female, a half grown, and a very small young one; copulates in the spring, the semale at first slying in various playful circles, and then throwing herself on her back to receive the male: When pasturing on the aquatic plants, the back is often above water; and, as the

fkin is full of a species of louse, numbers of sea fowls perch on them to pick out the insects: They bellow like bulls: Their sight is very weak, but their hearing extremely acute; the fore feet are palmated and sin-shaped, almost like those of a sea turtle; and instead of hind feet they have a horizontal tail; they have no external ears; the nostrils are distinct, and at a distance from each other; the females have two teats about the breast; the upper lip is full of sharp, prickly, rigid bristles. This animal has great affinity to the Whale and Seal tribes. The slesh is very good eating.

169

β. Manati .- 2. β. Trich. Manatus borealis.

Has no hair, and the feet have neither toes nor nails.

Manati, called by the Ruffians Morskuia Korowa. Steller, Nov. com. Petrop. ii. 294. Schreber, ii. 95. Hist. of Kamtschatka, 132. Whale-tailed Manati. Penn. hist. of quad. n. 390. Arctic zool. n. 81.

Inhabits the north-west coast of America, the north-east of Asia, and the islands which lie between these two coasts.—This animal very often enters the mouths of the rivers; is sometimes twenty-three feet long, and weighs eight thousand pounds; the skin, while wet, is of a brown colour, but becomes black when dry. Instead of grinders, this species has, on each side of each jaw, a large rugged bone. The back bone has fixty vertebrae or joints: The body is very clumfy, and much deformed; its circumference at the shoulders is twelve feet, at the belly twenty, and near the tail only four; the neck is near feven feet round, and the head only thirty-one inches; the head is very flouching, oblong, and almost square, with a small mouth, double lips, which are full of strong bristles that serve the purpose of fore teeth to cut the sea plants on which they feed; near the junction of the jaws, the infide of the mouth is full of white tubular briffles, which are fet in fuch a manner as to prevent the food running out along with the water; the eyes are very small, not larger than those of a sheep; and the orifices which lead to the internal ears are very minute; near the shoulders are two feet, or rather fins, about two feet two inches long, concave beneath, and covered with hard briftles, having neither toes nor nails; the tail is thick, ftrong, and horizontal, ending in a ftiff black fin, like whalebone, much fplit at the fore part, and flightly forked; the skin is very thick, black, full of inequalities like the bark of a tree, fo hard as scarcely to be cut with an ax, and is destitute of hair.

170

y. Sea-ape .- Trich. Manatus Siren.

Has sharp erect ears. Penn. hist. of quad. n. 392. Arct. zool. i. 181.

I have placed the Sea-ape in this place on the authority of Mr Pennant, though it feems rather a Seal. This animal was feen by Steller on the north-west coast of America; was five feet long, with a head resembling that of a dog, having sharp erect ears, large eyes, and a fort of beard on both lips: The body was thick, round, and tapering; thickest near the head, and smallest at the tail, which was divided into two unequal lobes, the upper one longer than the other, and neither feet nor paws could be observed. This creature was full of frolic and monkey tricks, swam round the ship, looking at it with great amazement, sometimes raising its body a third part out of the water, and standing erect for a considerable time; at other times dived, and brought up a sea plant like a gourd, which it tossed about, playing numberless fantastic tricks. From this animal, more probably than from either the Lamantin or Manati, the sables concerning Sirens and Mermaids have taken their rise.—T.

III. FERÆ.

Have fix sharp-pointed fore-teeth in the upper jaw; and single tusks on each side in both jaws.

XIII. S E A L .- 12. P H O C A. 11.

Has fix sharp-pointed fore-teeth in the upper jaw, which are parallel to each other, the two outermost being larger than the rest; and sour rather blunt fore-teeth in the lower jaw, which are parallel to each other, and equal in their size: The tusks, of which there is one on each side in both jaws, are twice the length of the fore-teeth, strongly made, and sharp-pointed; of these the upper are distant from the fore-teeth, and the under from the grinders: The grinders, of which there are sive on each side above and six below, are close set, and have three knobs on their grinding surfaces: Has no external ears, and the hind legs are stretched much backwards, and, as it were, bound together, or fettered.

The Seals are a dirty, inquisitive race, courageous and quarressome among themselves, yet may be tamed. They are polygamous, one male having many females. Their sless juicy and delicate eating; and their fat and hides are useful. They inhabit the waters, and swim readily, mostly under water. They walk, or rather crawl, with great difficulty, when on land, on account of their fore paws being retracted, or much set backwards, and the hind legs being closely united. They live on fish, and other marine productions. The Sea-ape, of Pennant, appears to belong to this genus.

1. Ursine Seal.—1. Phoca ursina. 1.

Has external ears. Schreber, iii. 289. tab. lxxxii.

Urfus marinus. Steller, Nov. act. Petro. ii. 331. t. 15. Briff. quad. 166.—Sea-cat. Hift. of Kamtschatka, 123. Muller. exped. 59.—Urfine Seal. Penn. hift. of quad. n. 387. Arct. zool. n. 79.

Vol. I.

171

Inhabits the fea coasts near Kamtschatka, and in that latitude both in Asia and America, particularly in Bering's Island; is found also in New Zeland, Staten-land, New Georgia, and Falkland's Islands.—This species swims with great impetuosity; is polygamous, one male living in family with many females and their young ones, sometimes in one flock amounting to a hundred and twenty; copulates on shore, the female lying on her back for the purpose: It scarcely fears the approach of mankind, and will even bite a stone, if thrown at it. The old males, which are destitute of females, and become very fat, live apart from the rest. Each animal has a particular stone, which serves for its bed, and which it never deserts. The males are exceedingly sterce and quarressome, fighting bitterly on account of their females, and for their particular stations: These battles are always single combats, and fair play is preserved among them: When one is beaten another comes up to his affistance and takes his place, and so on in succession, never two against one, until the whole slock of a particular landing place gets involved in a general battle. When grieved, they shed great floods of tears.

2. Bottle-nosed Seal - 2. Phoca leonina. 2.

Of a brown colour: The fore part of the head, or fnout, of the male, has a crest or long projection. Schreber, iii. 297. tab. lxxxiii.

Sea-lion. Anson's voy. tab. 100. Ellis's Hudson's Bay, tab. 6. f. 4. Sm. Buff. vii. 347.—Seawolf, Loup marin. Pernetty, voy. ii. 40. t. 11. f. 1.—Bottle-nosed Seal. Penn. hist. of quad. n. 388.

Inhabits the shores towards the South Pole, the coast of Chili, New Zeland, Juan Fernandez, Falkland's Islands, and New Georgia.—The male has a hairy projection at the base of the snout, which hangs five or fix inches below the lower jaw; the upper part of this confifts of a loofe wrinkled fkin, beginning on the fore-head, which the animal can blow up into the appearance of a creft, whilft he eludes the blows of a cudgel. The female has a blunt nofe, which is tuberous or warty at the root. The two fore-teeth, in the lower jaw, stand out a little way from the mouth; the eyes are large; and the mouth is furrounded with large coarse whiskers, the bristles of which are white, and furrounded with reddish rings; all the feet are webbed, having five toes both before and behind, which are furnished with flat, oblong nails, fomewhat pointed at the extremities; the hind feet are much firetched backwards, and fettered, forming a flat horizontal tail, like two great bifurcated, or two-lobed, fins, the outermost toe being thicker than the rest; between the hind legs is a very small tail, only two inches long. The animals of this species swim in great flocks, and the males fight defperately with each other on account of the females: When fleeping on fhore, they fet centinels round the flock, to give alarm in case of danger. The male of this species is often twenty feet long, and fifteen feet in circumference; the female is only twelve feet long, and feven or eight feet round: The skin is very thick, and is covered with dun or rust coloured hair; which, on the neck of the male, is a little longer than on the rest of the body: They are of a very lethargic disposition, and fond of wallowing in miry places, tumbling over each other like fwine; they fometimes grunt like hogs, and at other times fnort like horfes; are very lazy, fat, and inactive, feeding on fifh and fmall feals; but grow very lean during the breeding feafon, at which time they abstain almost entirely from food for two months. The flesh is eaten by failors, who, long confined to falt meat, think it is tolerable beef.

3. Maned Seal. - 3. Phoca jubata. 4.

The neck of the male is covered with a long flowing mane. Schreber, iii. 300. tab. lxxxiii. B.

Seal, having a mane behind the head. Molin. hift. nat. Chili, book iv. p. 250.—Sea-lion, Leo marinus, and Lion marin. Steller, Nov. act. Petrop. ii. 360. Pernetty, voy. ii. 47. t. 10. Cook's voy. ii. 203. Forster's voy. ii. 513.—Leonine Seal. Penn. hist. of quad. n. 389. Arct. 200l. n. 80.

Inhabits the fea on the coasts of the northern Pacific Ocean, the west coast of America, Falkland's Islands, Patagonia, Kamtschatka, and, more especially, the islands which lie between Kamtschatka and America, and the Kurile islands.—The colour of the male is reddish, the young animals being more dusky, and the semales brighter in colour. It is larger than the last species, as the males sometimes are twenty-five feet long, and weigh sisteen or sixteen hundred pounds. The voice is like the bellowing of a bull: The head is large, having a short nose, somewhat turned up at the end, and large, long, thick, and strong whiskers; the eyes are large: On the neck and shoulders of the male is a great mane of coarse, long, slowing hair; the rest of the body is covered with a short, smooth, glossy fur; the fore feet are black, and resemble stat leather-like sins, without any appearance of toes; the hind feet are very broad, having very small nails, with a long, narrow, stripe of membrane beyond each; the tail is very short; the hinder parts are very large, much swelled, and excessively fat. This species lives in families, each male having many semales; they have a sierce look, but sly the approach of man; the males are very lazy, and exceedingly quarressome about their semales and resting places; they saft in breeding time for three or sour months, swallowing great quantities of stones to keep their stomachs distended.

4. Common Seal. -4. Phoca vitulina. 3.

Has no external ears; the neck is smooth; and the body is of a dark brown colour. Schreber, iii. 303. tab. lxxxiv.

Phoca, f. Vitulus marinus, Seal, Sea-calf, Phoque, Veau marin, Loup de mer. Gefn. aquat. 702. Aldr. pifc. 722. Jonst. pifc. 44. Dodart, 191. Raj. quad. 189. Steller, Nov. act. Petrop. ii. 290. Sm. Buft. vii. 330. pl. ccxlviii. Rondel. pifc. 458. Belon, poist. 25. f. 26. Penn. hift. of quad. n. 375. Arct. 200l. n. 72. Oedman, act. Stock. nov. an. 1784. trim. 1. n. 10.—The anatomy, E. N. C. d. 1. 2. 9. obf. 98. d. 3. 2. 7. app. 15.

Inhabits the seas near the coast in most parts of the globe, chiefly in the north, near the Arctic Circle, and in the lower parts of South America.—It sleeps generally on shore, on a stone standing a considerable height above the water. The head and nose are flat, with large waved whiskers, and oblong nostrils; the eyes are large, having a spherical cristalline humour, as in sishes, and a membrana nictitans; the tongue is cloven; the toes have strong sharp claws; and the foramen ovale of the heart remains open, even in adults; the body is covered with thick, short hair, lying smooth; and is of various colours in different parts of the world, constituting, perhaps, distinct varieties of the species: It is dusky, as coloured, white or pearl coloured, grey, black, or variously spotted, or brindled with white or with yellow.

The females, in autumn, bring forth mostly two young at a time, which are at first white and woolly; they suckle these by means of teats which are situated on the belly, for six or seven weeks,

in coverns, or hollow places of rocks, and then take them to fea. This animal cannot remain long below water, but must rife often to breathe: It sleeps, in the summer, on rocks or fand banks, precipitating itself, when surprised, into the fea; or, if at too great a distance to get there, it scrambles along, slinging up the fand and gravel very forcibly with the hind feet, making a piteous moaning; and, if overtaken, makes a vigorous defence with the feet and teeth: Is easily killed by a blow on the nose, but bears numerous wounds on other parts: Swims with great strength and swiftness, and sports without fear round ships and boats; is of a gentle nature, very docile, and may be tamed, and taught to obey a keeper almost like a dog: It never goes far from the land; feeds on all kinds of fish, and gets enormously fat during the time that herrings are on the coast. The flesh is very good food; the skin is useful, making good shoe leather, and the oil serves many valuable purposes.

. Besides the common seal, on all the coasts of the north of Europe, including the British islands, the following varieties are enumerated in Dr Gmelin's edition of the Systema Naturae.

β. Bothnic common Seal .- Ph. vit. botnica. 3. β.

Differs from the preceding variety by having a broader nose, and longer nails or claws, and being of a darker colour. Linn. faun. Suec. p. 2.

Inhabits the Gulph of Bothnia, in the Baltic.

γ. Siberian common Seal.—Ph. vit. sibirica. 3. γ.

Is of a filver white colour.

Inhabits the lakes Baikal and Orom, in Siberia.

177 S. Caspian common Seal. - Ph. vit. caspica. 3. S.

Is of a mixed or mottled colour.

Inhabits the Caspian, and the rivers which fall into that sea.

5. Hooded Seal.—5. Phoca monachus. 5.

Has no external ears; only four cutting teeth in each jaw; the fore paws are not divided, and the hinder paws have no nails.

Herman. Act. nat. fcrut. Berolin. iv. 456. t. xii. xiii.—Mediterranean Seal. Penn. hift. of quad.. n. 376.

Inhabits the Mediterranean, chiefly on the coast of Dalmatia.—When this animal is placed on its back, the skin of the neck folds into the similitude of a Monk's hood. The head is small, having a longer neck than in the common species; the orifices of the ears are very small; the hair is short, rude, and of a dusky colour, spotted with ash colour, and having a tawny spot above the navel: The whole body is eight feet seven inches long, and five feet round.

Seal.

179

181

182

6. Swartside. - 6. Phoca groenlandica. 6.

The head is smooth, and has no external ears; the body is grey, with a black moon-like mark on the side. Erxleben, Syst. mam. 588.

Swartsiide. Egede Greenl. fig. p. 62.—Attarfoak. Crantz Grocnl. 163.—Harp Seal. Penn. hist. of quad. n. 385. pl. li. Arct. zool. n. 77.—Krylatca, of the Russians. Lepechin, act. Petrop. part i. 259. tab. vi. vii.

Inhabits Greenland, Newfoundland, Iceland, the White Sea, the Frozen Ocean, and as far as Kamtschatka.—The head is black and pointed, having short whiskers on both lips, and on the nose; the body is thick, of a whitish colour; and, when the animal is sive years old, it gets an irregular semilunar black mark on each side, the horns of the crescent pointing upwards: Both the fore and hind paws have distinct nails; and there is a small short horizontal tail between the hind legs: It is nine feet long when full grown. This animal is called Harp, or Heart Seal by the British sishers, who call the black mark its faddle. It is much esteemed on account of the goodness of its skin, and large produce of oil.

180 Bedlemer.—Phoca groenlandica nigra.

This is a blackish variety, which is supposed by the fishers to be a young animal of the Swartside, or Harp species, last described. Penn. hist. of quad. p. 525.

Inhabits the Greenland and other northern feas.

7. Neitsek.—7. Phoca hispida. 7.

The head is smooth, and has no external ears; the body is of a pale brown colour, having rough bristly hair. Erxleben, mam. 589. Schreber, iii. 312. tab. lxxxvi.

Phoca foetida, or Stinking Seal. Muller. zool. 8.—Neitfek. Crantz Groenl. 164.—Rough Seal. Penn. hift. of quad. n. 383. Arct. zool. n. 74.

Inhabits Greenland and Labradore.—Has a fhort nofe, a fhort round head, and teeth like the Common Seal; the body is of an eliptical form, and very fat almost to the hind feet; the hair is long, erect, and close fet, having curled wool intermixed: It is of a dusky colour, streaked with white; sometimes white, with a dusky line along the back; never exceeds four feet long; seldom goes out to sea, but lives on the fixed ice near the shore, where it couples in June, and brings forth in January; seeds on shrimps and small sish; sleeps often on the surface of the water, and hence frequently falls a prey to eagles: The sless is red, settid, and nauseous, especially that of the males.

β. Newfoundland Seal .- Phoca hispida quadrata.

Is of a large fize, and has a rough hairy fur.

Dog, but is vaftly larger, weighing five hundred pounds.

Square Phipper. Arct. zool. i. 161.

Inhabits Newfoundland.—Seems allied to the former by its coat, which refembles that of a Water

8. Klapmus. - 8. Phoca cristata. 8.

Has a crest on the fore part of the head; and the body is of a grey colour. Erxleben, main. 590.

Klap-myssen. Egede Groenl. 62. t. 6.—Bladruselus. Olaffen, Isl. i. 283.—Neitser-soak. Crantz Groenl. i. 164.—Hooded Seal. Penn. hist. of quad. n. 384. Arct. zool. n. 76.

Inhabits the fouth coasts of Greenland, the west of Iceland, and Newfoundland.—Is of a large fize, having the skin covered with a thick coat of black wool interspersed with white hairs; has a strong folded skin on the fore-head, which falls over the eyes and nose, protecting it from stones and sand in stormy weather. The hunters alledge that it is necessary to remove this skin before they are able to kill the animal.

184

9. Great Scal.—9. Phoca barbata. 9.

The head is smooth, and without any external ears; and the body is blackish. Muller. 2001. 8.

Utfelur, Wetrarfelur. Olaff. Ifl. i. 260.—Utfuk. Crantz Groenl. i. 165.—Lachtak. Steller, Nov. com. Petrop. ii. 290.—Sea-calf. Parfons in Phil. Trans. ix. 74. tab. v.—Great Seal. Penn. hist. of quad. n. 382. Arct. 200l. p. 73.—Grand Phoque, or Large Seal of the northern ocean. Sm. Buff. vii. p. 342.

Inhabits the coasts of Scotland, the south of Greenland, and is common about Iceland.—In November or December, the semales bring forth generally two young ones, which are of a white colour: In adults, the skin is thick, and is covered with blackish hair. This animal resembles the Common Seal, but is much larger, as that does not exceed six seet long, while the present species grows to twice that length.

185

10. Little Seal .-- Phoca pufilla.

The head is smooth, and has the rudiments of external ears; the body is brown. Schreber, iii. 314. tab. lxxxv.

Vitulus marinus. Belon. aquat. 19. t. 21.—Vitulus Mediterraneus. Rondel. pifc. 453.—Vean marin, or Sea-calf. Dampier, voy. i. 116.—Loup marin, or Sea-wolf. Ulloa, voy. ii. 2.? 26.?—Vitello marino picciolo. Aless. quad. iv. t. 171.—Petite phoque, or Small Seal. Sm. Buff. vii. 337. pl. ccxlix. Little Seal. Penn. hist. of quad. n. 386.

Inhabits the coasts of the Atlantic, the Mediterranean, Chili, and Juan Fernandez.—This is the Para of Aristotle and Vitulus marinus of Pliny. The four middle cutting teeth of the upper jaw have each two points, and the two middle cutting teeth of the lower jaw are slightly divided into three points; the webs of the feet extend far beyond the nails; the hair is smooth, longer than in the Common Seal, of a dusky colour on the head and back, and brownish on the under parts of the body. The body and head measure about two feet two inches in length.

187

188

189

190

11. Chilese Seal. - Phoca chilensis.

Has a longish snout, and longish external ears. Syst. nat. ed. Gmel. 9. 11. sp. 9. note.

Phoca porcina. Molin. hist. nat. Chili, iv. 248.

Inhabits the coasts of Chili and Juan Fernandez.—Dr Gmelin is uncertain whether this may not be a variety of the little Seal, last described: It differs, however, by the marks in the specific character, and by having five toes to each foot.—T.

12. Long-necked Seal.—Phoca mutica.

Has a flender body, and no claws on the fore feet. Grew's muf. 95.

Long-necked Seal. Penn. hift. of quad. n. 377. Parfons in Phil. Trans. xlvii. tab. vi.

Its place and history are unknown.—The length, from the nose to the fore legs, is as much as from thence to the tail. The fore feet resemble fins.

13. Falkland Seal.—Phoca australis.

Has short pointed external ears. Penn. hist. of quad. n. 378. Brit. Mus.

Inhabits the Falkland ifles, and probably about Juan Fernandez.—Is of a cinereous colour, the hairs being tipt with dirty white; the nofe is short, and beset with strong black bristles; the external ears are short, narrow, and pointed; the upper fore-teeth are transversely surrowed, and the lower longitudinally; on each side of the tusks is a smaller secondary tooth; the grinders are conical, having a small process on one side of each, near the base: The fore feet have no claws, but five distinct toes may be felt within the skin, which extends far beyond their extremities; the hind paws have each four long straight claws, and the skin stretches far beyond them: The head and body measure about four feet in length.

14. Parsons Seal.—Phoca testudo.

The head refembles that of a Tortoife, having a flender neck; and the feet are like those of the Common Seal.

Tortoife-headed Seal. Penn. hift. of quad. n. 379.

This species or variety is very little known. Mr Pennant says that it is described by Dr Parsons, but does not inform us where to find his description, and that it is found on the shores of many parts of Europe.

15. Harnaffed Seal.—Phoca fasciata.

Is of a blackish colour, and marked across the neck, along the sides, and cross the haunches, with yellow stripes resembling harness.

Rubbon Seal. Penn. hist. of quad. n. 380. pl. at p. 513. Arct. zool. n. 78.

Inhabits the Kurile islands.—The skin is covered with very short, sine, glossy and bristly hair, of an uniformly blackish colour; and is marked along the sides, and across the neck and crupper, with regular narrow stripes of a yellow colour, resembling a ribbon or harness laid on by art; the stripe on each side is a small section of a large circle, the points standing downwards; that cross the shoulders is two portions of circles pointing forwards and meeting on the middle of the back; that across the rump is in a regularly waved form, and has two obliquely diverging processes, apparently intended to run down the hind legs. The size is unknown, as the description was taken from a squared skin received by Dr Pallas from the Kurile islands.

191

16. Woolly Seal.—Phoca laniger.

Has four cutting teeth in each jaw; a thick upper lip, with long thick whifkers; and foft uneven fur.

Phoca leporina. Lepechin, act. Petrop. part i. 264. tab. viii. ix.—Leporine Seal. Penn. hift. of quad. n. 381. Arct. zool. n. 75.

Inhabits the White Sea, the coast of Iceland, and the Frozen Ocean from Spitsbergen to Tschut-koinoss, or the north-east extremity of Asia.—The head is long, with a thick upper lip, having long whiskers, so that the animal seems bearded; the fur is soft, upright, interwoven, and like that of a hare. This species has nails both on the fore and hind feet; is six feet and a half long, and sive feet two inches round.

192

17. Speckled Seal.—Phoco punctata.

Is elegantly fpeckled all over the body, head, and limbs. Penn. hift. of quad. p. 523.

Inhabits the feas about Kamtschatka and the Kurile islands.

193

18. Spotted Seal.—Phoca maculata.

The body is spotted with brown. Penn. hist. of quad. p. 523.

Inhabits the coasts about the Kurile islands.—This species is very scarce.

194

19. Black Seal.—Phoca nigra.

Has a peculiar conformation of the hind legs. Penn. hift of quad. p. 523.

Inhabits the coast about the Kurile islands.—This and the two last species are mentioned by Mr Pennant as being obscurely described in the manuscripts of Steller. What the peculiarity in the conformation of the hind legs, in the Black Seal, consists of, is not said.

XIV. DOG.-13. CANIS.

Has fix cutting teeth in each jaw; the outermost of those above are longer, and at some distance from the rest; the intermediate ones are lobed; the outer ones in the lower jaw are likewise lobed: Has one curved tusk on each side in both jaws; six grinders in the upper, and seven in the lower jaw on each side, being more than in any other genus of the order.

This genus is naturally rapacious and greedy; bites very hard, and tears what it bites; it is very fwift, and fitted for the chace, but does not climb trees: The head is in general flat on the crown, with a narrow lengthened vifage and fnout; the trunk of the body is thickeft in its fore part, or at the cheft; the fore feet have five toes, except the Hyaenas, which have only four, and the hind feet only four *; while the genera of Cat, Seal, Bear, and Weafel, have five toes on all the feet: The male penis has a large knob at its middle: The female brings forth a confiderable number in each litter, and has generally ten paps, of which four are placed on the breaft and fix on the belly.

1. Faithful Dog.—1. Canis familiaris. 1.

The tail bends upwards, and towards the left fide. Faun. Suec. 5. Amoen. acad. iv. 43. t. 1. f. 1. Canis. Gefner, quad. 91. Aldr. dig. 482. Jonst. quad. 122. Raj. quad. 176.—Faithful Dog. Penn. hist. of quad. n. 136. Sm. Buff. iv. 1.

Inhabits chiefly in fociety with man, though often found in a wild ftate; it is uncertain whether the species be native in the East Indies.— This species is universally attached to mankind. It feeds on flesh, dead bodies, and farinaceous vegetables, refusing greens, and even digests bones: When sick, it eats some kind of grass which serves as an emetic; drinks by lapping with the tongue; dungs on a stone, and urines sideways, holding up the leg, the female squating; smells to the anus of other dogs; is very delicate in the sense of smelling; runs obliquely, resting on the toes in walking; scarcely sweats when warm, but lolls out the tongue, and foams at the mouth; when about to lie down, often goes round the place; and when assep has a very quick sense of hearing, and frequently seems to dream: The semale, when in heat, receives the embraces of various males, who slock about her, and are very quarressome among themselves, while she is equally ill humoured, biting and snarling at all around her; she goes sixty-three days with young, and litters from sour to eight puppies; of which the males generally resemble the father, and the semales the mother.

This

Vol. I.

In a domestic state, many varieties of the Dog have five toes on the hind feet, the fifth being much smaller than the rest, very loose, and placed far up the inside of the leg; this is usually called the Dewclaw.—T.

This is the most faithful of all animals, and perhaps the only one which is really attached to man, being hardly ever found wild, except in places where they have loft their mafters, and had no opportunity of finding others: It fawns at the approach of its mafter, and will not allow any one to strike him; runs before on a journey, and, on coming to a division of the road, stops, and looks back, as if asking which to choose; is very docile, and may be taught to seek for any thing that is lost; is very watchful by night, and gives notice of the approach of ftrangers, and guards faithfully any thing committed to its charge; drives cattle home from the field, and is employed to keep flocks and herds within due bounds, and to protect them from the attacks of wild beafts; points out game to the sportsman, by means of its acute sense of smelling, creeping with great caution to spring upon the game, and brings it when killed to its mafter, without deftroying any; is employed in France, and fome other countries, to turn fpits; in Siberia is made to draw fledges; begs when his mafter is at table; and, when it has ftolen any thing, flinks away, flouching its tail between the hind legs; eats enviously with oblique eyes; and is always defirous of domineering over its fellows; is the enemy of all beggars, and often attacks ftrangers without any provocation; will lick wounds, and often by fo doing relieves ulcers and the gout; howls at certain notes in mufic, and fometimes urines on hearing them; bites a ftone when flung at it; grows fick at the approach of ftorms; is often afflicted with the Taenia, or tape-worm, in its bowels; fometimes becomes mad, which diforder it communicates to its kind, to other animals, and to man, by biting; makes a violent hollowing when empyreumatic oils are rubbed on the tail; is often infected with gonorrhoea. Dogs are banished from their houses, as unclean, by the Mahometans, who notwithstanding endow hospitals for their maintenance; is the victim of anatomists, for demonstrating the circulation of the blood, the lacteal vessels, and for experiments on transfusion, cutting of nerves, and other cruel purposes; but has been made an useful martyr by fome, for discovering the effects of remedies against poison.

The top of the head is flat, and has a projecting longitudinal ridge; the edges of the lower lips, at the fides, are divided into dentated, or tooth-like, projections, which are concealed by the upper lips; has five or fix rows of whifkers on the fnout; the upper margin of the external ear is reflected; the posterior one has two lobes, and the anterior three; the nostrils are in form of a semilunar furrow turned outwards at the lower end; the face usually has seven hairy warts; and the fur has eight ridges or whorles, on the neck, the breast, the fore legs, the belly, the eyes, the loins, the ears, and near the arms: The semale has ten paps, of which four are on the breast: The feet have small membranes connecting the roots of the toes with each other, or are called sub-palmated.

This animal is subject to more varieties than any other: Each of these will reproduce, and, mixing with others, produce varieties almost without end; yet certain kinds are more numerous and more permanent than others, perhaps from their usefulness, having more attention paid to their breed. It is perhaps impossible to enumerate or describe all the varieties, but the following catalogue includes the most remarkable and best known. Various conjectures are formed concerning the original or parent stock; some deriving all dogs from the Sheep-dog, and supposing that, by the influence of climate, and the crossing of breeds with the Shakal, Wolf, Fox, and Hyaena, all the forms and sizes have been produced. See Smellie's translation of Bussion, iv. p. 1. and plates from xxiv. to xliv. inclusive.

a. Shepherd's Dog.—C. domesticus.

Has erect ears, and the tail is woolly underneath.

195

Canis orzovecs, five domesticus. Raj. quad. 177. n. 8. Sm. Buff. pl. xxvii.

B. Pomeranian Dog. - C. pomeranus.

Has long hairs on the head, erect ears, and the tail is much curved upwards on the rump.

Chien-loup, Wolf-Dog, or Pomeranian Dog. Sm. Buff. iv. pl. xxviii.

197

2. Siberian Dog. - C. fibiricus.

Has erect ears, a curled up tail, and the hair on the whole body is long.

Chien de Siberie, or Siberian Dog. Sm. Buff. iv. pl. xxix.

198

f. Iceland Dog. - C. islandicus.

The ears are erect, with pendulous points; and the hair is universally long, except on the fnout, which is short.

Fiaar-hund. Olaff. Isl. 1. 30. - Chien d'Islande, Iceland Dog. Sm. Buff. iv. pl. xxx.

199

e. Great Water-Dog. - C. aquaticus major.

The hair is long and curled, like the fleece of a sheep.

Canis aquaticus fagax, or Sagacious Water-Dog. Aldr. dig. 556. Gefn. quad. 256. Raj. fyn. 177. n. 6.—Grand barbet, or Great Water-Dog. Sm. Buff. iv. pl. xxxvi.—Budel. Redinger, t. 18.

200

ζ. Leffer Water-Dog. - Canis aquaticus minor.

Is of a finall fize, with long curly hair, which, about the ears, is longer, and hangs downwards.

Petit barbet, or Small Water-Dog. Sm. Buff. iv. pl. xxxvii. lower fig.

201

n. Pyrame. - Canis brevipilis.

Has a finall rounded head, with a fhort fnout, and the tail is turned up on the back.

Canis parvus melitaeus, or Small Maltese Dog, with shorter hair. Aldr. dig. 541.—Gredin, or King Charles's Dog. Sm. Buff. iv. pl. xxxviii. fig. 1.—Pyrame, of a black colour, with slame coloured spots. Sm. Buff. iv. pl. xxxviii. fig. 2.—King Charles's Spaniel. Penn. hist. of quad. n. 136. iii. a.—Pyrame. Penn. hist. of quad. n. 136. iii. s.

Dr Gmelin has evidently confounded two diffinct varieties of the finall cocking Spaniel in this place: 1st, The King Charles Spaniel is entirely black, and has a black palate: 2d, The Pyrame is likewife black, but is marked on the legs, and above each eye, with red or flame colour.—T.

202

9. Spaniel.—Canis extrarius.

Has long pendulous woolly ears.

Canis hispanicus, or Spanish Dog, with hanging ears. Aldr. dig. 561. 562.—Epagneul, or Spaniel. Sm. Buff. iv. pl. xxxvii. fig. 1.

206

207

208

203 2. Shock Dog.—Canis melitaeus.

Is about the fize of a fquirrel, having very long foft filky hair all over the body.

Canis melitaeus pilofus, or Hairy Maltefe Dog. Aldr. dig. 542. Raj. quad. 177. n. 9.—Bichon, or Shock Dog. Sm. Buff. iv. pl. xxxix. fig. 1.

204 z. Lion Dog.—Canis leoninus.

Is exceedingly fmall, with long hair, like the foregoing, on the fore part of the body; that on the hind parts being fhorter and fmooth.

Chien-Lion, or Lion Dog. Sm. Buff. iv. pl. xxxix. fig. 2.

λ. Little Danish Dog.—Canis variegatus.

Has fmall, half-pendulous ears, a fmall pointed nofe, and thin legs.

Petit danois, or Small Danish Dog. Sm. Buff. ix. pl. xl. fig. 1.

μ. Bastard Pug Dog.—C. hybridus.

Has fmall, half pendulous ears, and a thick flattish nofe.

Roquet, or Bastard Pug Dog. Sm. Buff. iv. pl. xl. fig. 2.

Dr Gmelin thinks that this variety is perhaps produced by a cross between the Little Danish Dog, var. a. and the Pug Dog, var. v.?

v. Pug Dog.-Canis fricator.

The nose is crooked upwards, the ears are pendulous, and the body square built.

Doguin, or Pug Dog. Sm. Buff. iv. pl. xliii.—Cane muffolo. Alep. quad. iii. t. 103.—Pug Dog. Penn. hift. of quad. n. 136. v. β .

This variety has a refemblance to the Bull Dog, but is much fmaller, and entirely wants his favage ferocity. Of this there are two fub-varieties, viz.

- a. The Artois Dog, of Buffon, produced between the Pug Dog and Bastard Pug Dog.
- b. The Alicant Dog, of Buffon, produced between the Pug Dog and Spaniel.

ξ. Bull Dog.—Canis Molossus.

Is as large as a wolf, having the fides of the lips very pendulous, and the body very firong and robust.

Canis fagax fanguinarius, or Sagacious fanguinary Dog. Gefner, quad. 251.—Dogue, or Bull Dog. Sm. Buff, iv. pl. xlii. Penn. hift. of quad. n. 136. v. a.—Baerenbeisser. Ridinger, t. 3.

The nose of this variety is short, and the under jaw is longer than the upper; this kind is exceedingly fierce and cruel; attacks without warning, but with little judgment, and never quits its hold. It is peculiar almost to England for baiting bulls, which practice, and consequently the kind of Dog, is now much less frequent than formerly. There are several varieties of this in size and colour.

209

o. Mastiff. - Canis anglicus.

Of very large fize, having a very robust body, and the lips are pendulous at the sides, or chops.

Canis bellieofus anglicus. Aldr. dig. 559.—Canis maftivus. Raj. quad. 176. n. 1.—Maftiff. Penn. hift. of quad. n. 136. iv. 8. Sm. Buff. iv. pl. xliv.—Englische Docke. Ridinger, t. 1. 2.

Is very thick and strongly made, having a large head, and great lips, which hang down on each each side. This Dog is peculiar to England, and grows to a great size, being used principally as a watch Dog, which duty he sulfils with great sidelity, and even judgment: Some will permit a stranger to come into the yard, or place which he is appointed to guard, and will go peaceably along with him through every part of it, so long as he touches nothing, but the moment he attempts to meddle with any of the goods, or endeavours to leave the place, he informs him, first by gentle growling, or, if that is ineffectual, by harsher means, that he must neither do mischief nor go away; and never uses violence unless resisted; will even, in this case, seize the person, throw him down, and hold him there for hours, or until relieved, without biting.

210

π. German Hound.—Canis sagax.

Has pendulous ears, and a spurious toe, usually called a dew-claw, on each hind foot.

Teutscher Jagdhund. Ridinger, T. v. two sigs. at the right hand.

211

p. Hound.—Canis gallicus.

Is of a whitish ground colour; has pendulous ears, and a dew-claw on each hind foot-

Canis fagax venatorius, or Sagacious hunting Dog. Raj. quad. 174. n. 4.—Chien courant, or Hound. Sm. Buff. iv. pl. xxxi. Penn. hift. of quad. n. 136. ii.—Franzofischer, and Englischer Parforcehund. Ridinger, T. v. two figs. at the left, and T. vi.

212

σ. Blood-hound.—Canis scoticus.

Canis fagax fcoticus, or Sagacious Scotch Dog. Gefn. quad. 250.—Blood-hound. Penn. hift. of quad. n. 136. ii. Raj. quad. 174.—Schweis-hund. Ridinger, T. x.

213

T. Canis venaticus.

Leit-hund. Ridinger, T. iv.—I am uncertain what particular variety of Hound is here meant, as no description is given by Dr Gmelin.—T.

FERÆ.

v. Pointer. - Canis avicularis.

The tail is short, and has the appearance of having been cut.

Canis fagax panterinus, or Sagacious Dog, spotted like a panther, for catching quails. Ald. dig. 535.—Pointing Dog, or Field Spaniel; Canis aviarius, seu hispanicus campestris. Raj. quad. 177. n. 5.—Huner-hund. Ridinger, T. xiv.

215

214

q. Barbet .- Canis aquatilis.

The tail is truncated, or feems cut off in the middle, with long coarse hair. Ridinger, t. 42.

This feems the fame with the Canis aquaticus major, Great Water-Dog, or Grand Barbet of Buffon, already mentioned at :.—T.

216

x. Grey-hound.—Canis cursorius.

Has a long narrow head, with a strong lengthened snout, and small half pendulous ears; the legs are long, and strongly made; and the body is long and thin.

Curs-hund. Ridinger, T. 13.

217

4. Irish Grey-hound .- Canis cursorius hibernicus.

Is nearly as large as a mastiff, having an arched body, and narrow projecting snout.

Schreber, iii. 327. tab. lxxxvii. Raj. quad. 176. n. 3. Sm. Buff. iv. pl. xxiv. Penn. hift. of quad. n. 136. iv. a.

218

ω. Turkish Grey-hound.—Canis cursorius turcicus.

Is of the fize of a mastiff, with an arched body, and narrow snout; and having the fur fomewhat curled.

Ridinger, t. 9. Ald. dig. 550.?

219

aa. Common Grey-hound.—Canis Grajus.

About the fize of a wolf; having a curved or arched body, and narrow fnout.

Scotch hunting Dog, Canis feoticus venaticus. Gefn. quad. 249. Aldr. dig. 545.—Grey, Greek, or Scotch hunting Dog, canis venaticus grajus, f. graecus, nonnullis feoticus. Raj. quad. 176. n. 2.—Levrier, or Grey-hound. Sm. Buff. iv. pl. xxvi. Penn. hift. of quad. n. 136. iv. 2.—Windfpiel. Ridinger, t. 7.

220

ββ. Rough Grey-hound.—Canis Grajus birfutus.

Same fize, body and fnout, with the last, but having the hair somewhat longer, and curled.

Aldr. dig. 549.—Zotiger Wind-hund. Ridinger, T. 1. f. 1.

223

224

225

226

227

228

221 yy. Italian Grey-hound. - Canis Grajus italicus.

Of a small fize, but the same form of body and snout with the last.

Penn. hift. of quad. n. 136. iv. s. 1.-Kleines Windspiel. Ridinger, T. 15.

** Oriental Grey-hound.—Canis Grajus orientalis.

Tall, slender, with very pendulous ears, and very long hairs on the tail, hanging down a great length. Penn. hist. of quad. n. 136. iv. \$. 2.

88. Naked Dog. - Canis aegyptius.

Has no hair on the body.

Aldr. diget. 562.—Small Indian Dog, with a naked fkin. Brown. Jamaic. 486.?—Chien-turc, or Turkish Dog. Sm. Buff. iv. pl. xli. f. 1.—Naked Dog. Penn. hist. of quad. n. 136. v. 8.

ee. Lurcher. - Canis laniarius.

The body is narrow, and covered with short thick-set hair; the legs are strong, and the tail is thick and straight.

ζζ. Rough Lurcher.—Canis laniarius aprinus.

In body, legs, and tail, resembles the last, but is covered with long harsh hair.

Saufinder. Ridinger, T. 11.

nn. Boar Lurcher. - Canis laniarius suillus.

The head and fnout are strongly made; the hind part of the body is lank; the legs are long; and the hair is long and harsh.

Sauruden. Ridinger, T. 12.

99. Turnspit. - Canis Vertegus.

Has short legs; and a long body, which is mostly spotted.

Penn. hift. of quad. n. 136. ii. y.-Dachsschlieffer, or Dachswurger. Ridinger, T. 16.

- a. With straight legs. Sm. Buff. iv. pl. xxxiv. fig. 1.
- b. With crooked legs. Sm. Buff. iv. pl. xxxiv. fig. 2.
- 229 c. With long fhaggy hair.

233

u. Alco.-Canis americanus.

About the fize of a squirrel: having a small head, pendulous ears, a curved body, and short tail. Sm. Buff. viii. 261.

Of this animal there are two kinds mentioned by authors.

230 a. Fet Alco.—Canis americanus obesus.

Is prodigiously fat; the head is very small, and the ears are pendulous; the fore part of the head is white, and the ears are yellowish; the neck is short; the back is arched, and covered with yellow hair; the tail is white, short, and pendulous; the belly is large, and spotted with black; the legs and feet are white: The semale has six conspicuous paps.

Michuacanens. Fernand. anim. nov. hifp. 7.—Ytzcuinte-porzotli, Canis americanus, or American Dog. Hernand. hift. Mexic. 466.

b. Techichi. - Canis americanus plancus.

Is like the small dogs of Europe, but has a wild and melancholly air.

Fernand. an. nov. hifp. 10.

2. New-Holland Dog.—Canis antarticus.

The tail is bushy, and hangs downwards; the ears are short and erect; and the muzzle is pointed.

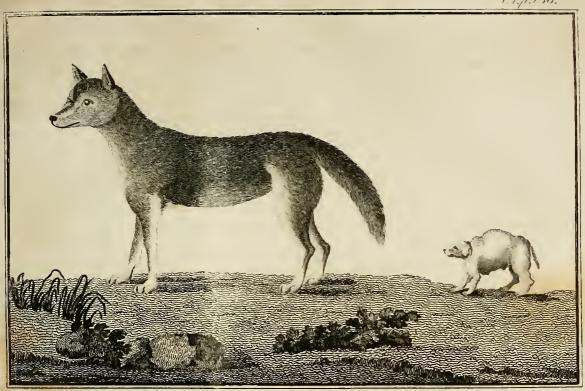
Dog of New-South-Wales. Gov. Phillips voy. 274. pl. xlv.

Inhabits New-Holland.—This animal is rather lefs than two feet high, and about two feet and a half in length: His head refembles that of a fox, having a pointed muzzle, garnished with whiskers, and short erect ears; the whole body and tail is of a light brown colour, growing paler towards the belly, on the sides of the face, and on the throat; the hind parts of the fore legs, the fore parts of the hind legs, and all the feet, are white: On the whole, it is a very elegant animal, but sierce and cruel; from which, its sigure, and the total want of the common voice of the Dog, and from general resemblance in other respects, it seems more properly to belong to the Wolf than Dog kind.

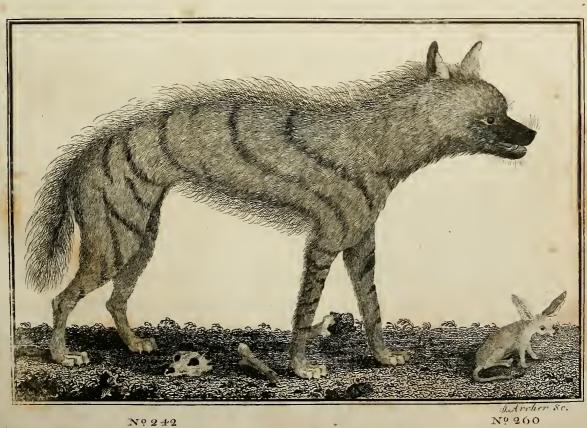
3. Wolf.—2. Canis Lupus. 2.

Has the tail hanging down, and bent inwards. Faun. suec. 6. Schreber, iii. 346. tab. lxxxviii.

Yellowish brown Dog, Canis grisco-flavescens. Brist. quad. 170.—Lupus. Gesn. quad. 634. Aldradig. 144. Jonst. quad. 89. Raj. quad. 173.—Loup, or Wolf. Sm. Buff. iv. 196. pl. lxiv.—Wolf. Penn. hist. of quad. n. 137. Brit. 2001. i. 61. t. s. Arct. zool. n. 9. Ridinger, t. 21.—The Anatomy, E. N. C. d. 2. a. 9. obs. 71. and Cent. 10. app. 450.



Nº 232 Nº 230





Inhabits Europe, Afia, Africa, and America, and as high as the Arctic Circle.—Has long been extirpated from the British isles: The last mention of Wolves in England is in 1281, when they were numerous in some of the counties; Sir Ewen Cameron of Locheil killed the last Scotch Wolf, in Lochaber, in 1680; and the last in Ireland was killed in 1710.—They are chiefly found in forests, even in the colder regions of the north; they hunt in packs, and destroy cattle, sheep, horses, swine, and even dogs: They are very suspicious animals, and are scarcely to be heard in the woods; and so fearful of snares, that they even avoid a little bit of rope dragging on the ground: When attacking folds, or fields, they always avoid the door and leap over the fence; and dread the sound of a trumpet: They have very nice sense of hearing and of smell: They copulate in winter; the semale goes a hundred days with young, and brings forth from three to nine whelps; these come to their sull growth in the third year, and live for sisteen or twenty years. When excessively pushed by cold and hunger, they attack mankind, and will even prey on their own species; though they can support famine for a long time. They are destroyed by means of the moss named Lichen vulpinum.

The Wolf is as tall as a large Grey-hound: The head is long, with a pointed nofe, and fharp erect ears; the tail is bushy, hangs down, and is black at the tip; the legs are long, and the teetle large; the hair, in general, is longish, though not shaggy; the head and neck are ash coloured, and the body is of a pale brown, tinged with yellow.

Befides the above described, which may be termed the Common Wolf, there are several varieties of this species, differing chiefly in colour, perhaps occasioned by climate: The following are the most remarkable, and best described; for the Wolves of some authors are evidently Hyaenas.

β. Yellow Wolf.—C. Lupus flavus.

Of a yellow colour. Sm. Buff. iv. p. 207.

234

235

236

237

This is found in France and Germany, having a thicker fur, and of a more yellow colour than the common kind: It is more wild, though lefs destructive, and never troubles the flocks, or the habitations of man.

y. White Wolf .- C. Lupus albus.

Of a white colour. Muller. Ruff. Sam. iii. 527.

This variety is found near the Jenisea, in the eastern parts of Asiatic Russia, and is much valued on account of its fur.

8. Black Wolf.—C. Lupus niger.

Of a uniform black colour. Sm. Buff. iv. 212. pl. lxv.

Inhabits Canada.—This variety is not fo large as the common kind; the ears are larger, more erect, and more diffant; but in every other circumstance, and in dispositions, it resembles the common European Wolf.

e. Striped Wolf.—C. Lupus fasciatus.

Of a grey colour striped with black. Penn. hist. of quad. p. 232.

Inhabits the Cape of Good Hope.

Vol. I.

4. Mexican Wolf .- 3. C. Lupus mexicanus. 8.

The tail is fmooth, and bent downwards; the body is ash coloured, variegated with dusky stripes and tawny spots.

Canis cincreus, or Ash-coloured Dog, spotted with tawny. Briss. quad. 237.—Quauhpecotli, or American Mountain-cat. Seba, mus. i. 68. t. 42. f. 2.—Xoloitcuintli, or Mexican Wolf. Hernand. Mex. 479.—Cuatlachtli, Lupus indicus, or Indian Wolf. Fernand. nov. Hisp. 7.—Mexican Wolf. Sm. Buff. viii. 258. Pean. hist. of quad. n. 138.

Inhabits the warm parts of Mexico and New Spain.—The body is afh coloured, with dark brown stripes, and having tawny yellow spots on the fore-head, neck, breast, belly, and tail; the head is very large, with great jaws, and strong teeth; above the mouth there are some bristles, as large, but not so hard, as the spines of a Hedge-hog; the neck is very thick. This animal agrees with the Wolves of the Old World in its ravenous manners, and in its general form, except as above described.

239

β. White Mexican Wolf.—C. Lupus mexicanus albus.

Of a uniform white colour. Fernand. hist. anim. nov. Hist. 7.

According to Fernandez, who describes the animals of New Spain, the Mexican Wolf is sometimes found of a uniform white colour, but agreeing in every other particular with the Striped Mexican Wolf just described.

240

5. Surinam Wolf.-4. C. Lupus Thous. 9.

The tail is fmooth, and bent downwards; the body is grey on the upper, and white on the under parts.

Surinam Wolf. Penn. hift. of quad. n. 147.

Inhabits Surinam.—The body is grey above, and entirely white on the under parts; the ears are erect, and of the fame colour with the body; the face has a wart over each eye, on each cheek, and under the throat; and the tongue is fringed at the fides. It is about the fize of a large Cat.

241

6. Striped Hyaena. - 5. Canis Hyaena. 3.

Has a short straight tail; erect hair, like a mane, on the neck; naked ears; and only four toes on all the seet. Schreber, iii. 371. tab. xcvi. Miller on var. subj. tab. xix. A.

Taxus porcinus, f. Hyaena antiquorum. Kaempfer, amoen. exot. 411. t. 417. f. 4.— Lupus marinus. Belion. aquat. 33. t. 34. Jonft. quad. t. 57. Gefn. 359.—Hyaena. Briff. quad. 169. Sm. Buff. v. 226. pl. cxxv.—Striped Hyaena. Penn. hift. of quad. n. 149.—Indianifcher Wolf. Ridinger, allerl. Thiere. t. 37.

Inhabits the eastern and fouthern parts of the Old World, Mount Caucasus, and the Aitaic Chain, Asiatic Turkey, Syria, Persia, and Barbary.—This animal is the Taira, Keorolas and Korolas, of the ancients, and is likewise named Thares by Aristotle.—It burrows in the ground, and dwells in caves, being

being capable of living for a long time without food: It frequents burying grounds, in which it digs up the graves of the dead, and feafts on the half putrid carcaffes of mankind. Whatever fubftance is prefented to it, when angry, it feizes in its teeth, and holds firmly with the most unconquerable obstinacy, not quitting its hold but with its life; and from this circumstance it becomes an easy prey to the hunters. It is about the fize of a large Dog, and resembles a wild Boar in its countenance. The hair on the ridge of the back is erect, near a span long, and black at the points; the eyes are placed near the snout; the ears are naked; the tail is generally variegated with black rings, and has the hair long and surrounding it in a radiated bush at the extremity; the body is of an ash colour, marked with transverse streaks, from the back downwards to the belly.—This animal is apparently allied to the Bear and Badger; having, like the latter, a transverse orifice, or sack, which secretes a foetid matter, situated between the tail and the anus.

MAMMALIA.

242

243

Mr Pennant, with confiderable propriety, separates this animal, and the two next, from the genus of Dog, making them two species of a distinct genus, under the name of Hyaena. The dishinguishing marks are, the short tail, the transverse orifice under the tail, the having fix fore-teeth in the lower jaw, and only four toes on each foot.

7. Abyssinian Hyaena. - C. Hyaena aethiopicus.

The tail is bushy; and the body is marked with curved stripes. Bruce, Abyss. v. 107. and fig.

Inhabits Abyffinia, and the north-east of Africa.—Whether this animal, as described and figured by Mr Bruce, be a distinct species, I do not pretend to determine. In magnitude, serocity, and manners, it resembles the following species; but its body, which is of a yellowish brown colour, is marked with curved stripes of black, in form of a reversed Italian f: the muzzle is black; the legs are striped across with black; and the bushy tail is of a reddish brown colour.—T.

8. Spotted Hyaena. - 6. C. Hyaena Crocuta. 10.

Has a straight tail; four toes on all the feet; and the body is spotted with black. Erxleben, hist. mam. 578.

Hyaena, or Crocuta, congeneric with the former animal. Ludolf. Æthiop. B. i. c. 10. n. 50.—Quumbengo. Barbot, Guin. 486.—Jachhals, or Boshund. Bossin. Guin. 291.—Spotted Hyaena. Penn. hist. of quad. n. 150. pl. xxix. fig. 2.

Inhabits Guinea, Ethiopia, Abyffinia, the Cape of Good Hope, and all the intermediate countries of Africa. – Lives in holes of the ground, and clefts, or caverns, among rocks. Preys, by night, on cattle, fheep, and horfes, even attacking mankind, and digs up graves to feed on dead bodies: Has a terrible howling voice. The upper part of the head, and the face, are black; the mane is fhort and black; the body and limbs are covered with fhort, foft, hair of a reddiff brown colour, marked with round black fpots; the tail is fhort and bufhy. This fpecies is confiderably fuperior in fize, ftrength, and ferocity, to the former, infomuch that it is able to carry off, and with great fpeed, a full grown man. The head is large and flat, having fome long hairs above each eye, and very large whifkers on each fide of the nofe.

S 2

9. Jackal. - 7. Canis au eus 7.

Has a straight tail, and the body is of a pale tawny yellow colour. Schreber, iii. 365. tab. xciv.

Canis flavus. Briff. quad.—Lupus aureus. Kaempfer, am. exot. 413. t. 407. f. 3. Raj. quad. 174. Klein, quad. 70.—Vulpes indicus. Valent. muf. t. 452.—Adil. Belon. obf. 167.—Schakall. S. G. Gmel. it. Ruf. iii. 80. t. 13. Guldenftedt, nov. com. Petrop. xx. 449. t. x. Penn. hift. of quad. n. 145. Sm. Buff. vii. 255.

Inhabits the warmer regions of Afia, and in Barbary: According to Mr Pennant, it is found in all the hot and temperate parts of Asia, and in most parts of Africa.—This animal is the Ow; of Aristotle and Aelian, the Auros Eurose and xevoses of Oppian, and the Thoes of Pliny. It lies hid, during the day, in the forests and mountains; and feeks for prey, in the night, in packs of two hundred, or more: It is much given to theft, walking flowly and cautioufly with the head louching, but runs off with great swiftness when detected: Will not attack adults of the human species, but sometimes devours children: Preys on finall quadrupeds and birds, and eats of various kinds of food, fuch as roots and ripe fruits, and will even dig up the ground in fearch of dead carcaffes: Copulates, like dogs, in the fpring; and the female brings from five to eight cubs, after going about a month with young. It goes about only during the night, making a hideous noise; for, when one begins to howl, every one within hearing joins in the difinal cry, which resembles the howling of Dogs intermixed with a kind of barking: By this barking and noise the other beasts of the forest are set in motion, and join in the chafe of Stags or other animals; in the mean time, Lions and Tigers lay in wait for the flying game, and, feizing it by furprife, devour the prey which was roufed and followed by the pack of Jackals; and these are forced to wait around till the tyrant of the forest, having satisfied his appetite, leaves the remains of his feast to them, who, from this circumstance, have been named the Lion's provider. The head is fomewhat shorter than that of a Fox, with a blunter nose; black lips; fomewhat loose, fhort, erect, pointed ears, which are white, and hairy within; the whole animal has a general refemblance to the Fox, but the body is rather thinner, and compressed, and the legs are longer; the tail is thickest of hair in the middle, and tapers both ways; each foot has four toes, which are covered with hair, even to the claws, and a fifth toe, or dew-claw, placed high, on the infide of each fore foot; the colour of the upper part of the body is a dirty yellow, or tawny, which is mixed with black on the back; the lower parts are yellowish white; the tail is of the same colour with the back, and is tipt with black; the legs are of an unmixed tawny brown, having fometimes a black fpot on the knees: It is twenty-nine inches long from the nose to the origin of the tail; and eighteen or nineteen inches high at the shoulders. The Jackal has much the nature of Dogs, with a strong musky finell; when taken young, it acquires the fame affectionate manners; and is by some late authors supposed to be the original stock of all our various kinds of Dogs, which have been altered by climate, and intermixture with some other species. See Penn. hist. of Quad. 244.

10. Cipe Jackal.—8. Canis Mesomelas. 11.

Has a straight tail, and a rusty coloured body, with a black band on the back. Erxl. mam. 574. Schreber, iii. 370. tab. xcv.

Jackhals. Kolben, Cape. 150.—Capesch, Tenlie, or Kenlie, of the Hottentots. Penn. hist. of quad. n. 146.

245

Is common at the Cape of Good Hope.—This species has very much the appearance of a Fox, and is about twenty-seven inches long from nose to rump; the tail being a foot long: The ears are crect, of a yellowish brown colour, mixed with a few black hairs; the head is yellowish brown, mixed with black and white, and growing darker towards the back part; the fides are pale brown, varied with dusky hairs; the upper part of the body, and back of the legs, are yellowish brown; the throat, breast, and belly, are white; the tail is bushy, and yellowish brown, with a longitudinal black stripe on its upper part, having two black rings towards the end, and is tipt with white; on the neck, shoulders, and back, is a large black patch, broad at the shoulders, and growing narrower towards the tail; when the hairs are smooth, this patch seems marked with white bars on the neck, and with concentric curved lines on the shoulders; but, when the hairs are russed, these regular marks change to a general hoariness.

11. Barbary Jackal.—Canis Adive.

Has a strait bushy tail, surrounded with three broad black rings.

Jackal-adive. Sm. Buff. vii. 266. pl. ccxxxviii.—Barbary Jackal. Penn. hift. of quad. n. 144.

By the Count de Buffon, on the authority of Mr Bruce, this animal is faid to be common in Barbary, and named *Thaleb*, which, Mr Pennant observes, is the Arabick name for the Common Fox. The colour of this animal is a pale brown, having a black line behind each ear, which, dividing into two, extends to the lower part of the neck; the nose is long and slender; the ears are sharp and erect; and the tail is long and bushy, being surrounded with three broad black rings. This animal is very much of the same size and form with the Common Fox, but has shorter legs.

12. Black Fox .- 9. C. Vulpes Lycaon. 12.

Has a straight tail; and the body is entirely black.

246

247

248

Erxleb. mam. 560. Schreber, iii. 353. tab. lxxxix. Miller on var. fubj. tab. xix. B.—Vulpecula nigra. Scheff. Lappon. 340.—Schwarze Fuchfe. Steller, Kamtschat. 124.—Black Fox. Penn. hist. of quad. n. 139. 7. Arct. zool. n. ii. a.—Lupo nero. Aless. quad. i. t. 24.

Inhabits the colder regions of Europe, Afia, and America. —This is the most cunning animal of the genus: It is exceedingly like the Wolf, and is of an intermediate fize between that animal and the Fox. The colour is entirely black; fometimes, however, varicgated with greyish, or by having the tips of the hairs of a filvery whiteness. The fur is reckoned very valuable; being preferred in Russia to the finest fables; one skin sometimes felling for four hundred roubles: Those of America are inferior in beauty.—The above description refers distinctly to a variety of the Fox; and yet Dr Gmelin quotes, as a synonime, the Black Wolf of Bussian, with the plate and description already referred to in sp. 3. & of this genus.—T.

13. Fox.—10. C. Vulpes. 4.

Has a straight tail with a white tip. Schreber, iii. 354. tab. xc.

Vulpes. Gefn. quad. 966. Aldr. dig. 195. Jonst. quad. 82. Raj. quad. 177.—Renard, or Fox. Sm. Buff. iv. 214. pl. lxvi.—Fuchs. Riding. jagd. thiere. t. 14.—Fox. Penn. hist. of quad. n. 139. Brit. 2001. i. 58. Arct. 2001. n. 11.

250

251

Inhabits Europe, Afia, Africa, and America, as far as Chili.—Is the Axonniz of Aristotle and Aelian, and the Keeds of Oppian. This animal is very cunning, and dwells in holes of its own digging; it preys on lambs, geefe, ducks, poultry, and finall birds, and even eats the dung of other animals; becomes fat in France by feeding on grapes in autumn, and at this time his flesh is reckoned very good eating; it does not readily commit thefts in the immediate neighbourhood of its haunts; is much affraid of fire arms, and even flies from the finell of gun-powder, and may be chased away by means of finoke: The body is of a deep tawny-red colour, with black fore feet, and tips of the ears; the ears are erect, and the lips are white: It emits a strong rank odour from the base of the tail.

FERÆ.

14. Brant Fox.—11. C. Vulpes Alopex. 5.

The tail is straight, and has a black tip. Schreber, iii. 358. tab. xci.

Fox, having a thicker fur than the common kind, and of a blackish colour. Gesn. quad. 967.

Inhabits Europe, Asia, and Chili.—This animal is less frequent, smaller, and of a darker colour, than the Common Fox, to which it is very fimilar in all other respects. Since it is found both in Chili and the Old Continent, it ought also to inhabit the intermediate regions in the north of America; and, accordingly, that defcribed by Mr Pennant came from Penfylvania. Authors do not feem properly agreed about the animal to which this name is given; at least the Coal Fox of Buffon, and the Brant Fox of Pennant, are confiderably different, though quoted by Gmelin as fynonimous; they are therefore in this edition subjoined as varieties.—T.

a. American Brant Fox.—C. Vulpes Alopex americanus.

The tail is black above, red beneath, and cinereous on the fides. Penn. hift. of quad. n. 139. 8. Arct. zool. n. 11. 7.

Inhabits Penfylvania.—This animal is hardly half the fize of the Common Fox; the nofe is black and very sharp; the fore-head, back, shoulders, sides, and thighs, are ash coloured, mixed with red and black, and having a hoary look; the belly is yellowish.

B. Coal Fox. - C. Vulpes Alopex europaeus.

Has remarkably black feet.

Charbonnier, or Coal Fox. Sm. Buff. iv. 221.

Inhabits Burgundy, where it gets the name of Renard Charbonnier, or Collier Fox, from the blackness of his feet and legs, as if they had become so artificially by working among charcoal dust. This variety is of a filver grey colour; having the tail tipt with white, like the Common Fox.

15. Corfac Fox.—12. C. Vulpes Corfac. 13.

Has a straight tawny tail, which is black at the root and tip. Syst. nat. ed. xii. app. 3p. 23. Schreber, iii. 359. tab. xci. B.

Korfaki. Rytfchkow, Orenb. i. 232. Pallas, neue nord. Beytr. i. 29.—Corfak Fox. Penn. hift. of quad. n. 139. ζ. Arct. zool. n. 11. J. Sm. Buff. vii. pl. ccxxxix.

Inhabits

254

Inhabits chiefly in the great defert between the Ural and the Irtish, in Asiatic Russia.—This species, or variety, is less than the Common Fox, but, in other respects, is very similar; it is greedy of birds, has a bad smell, and howls and barks exactly as they do; the ears are upright, the hair is soft and downy; the tail is bushy, and as long as the body; the fur is of a pale tawny colour in summer, growing grey in winter, with a white throat; the tail is cinereous, except the base and tip. Forty or sisty thousand of the skins of this variety are annually fold by the Kirghis Khaissacks to the Russians; being caught by means of Falcons and Grey-hounds.

16. Karagan.-13. C. Vulpes Karagan. 14.

The tail is straight; the body is of a grey colour, and the ears are black.

Karagan, Steppen fuchfe, or Defert Fox. Pallas, it. i. 199. 234.

Inhabits the deferts belonging to the Kalmucks and Kirgifes.

17. Silvery Fox.—14. C. Vulpes cinereo-argenteus. 15.

The tail is straight; the body is of a filver grey colour, with the sides of the neck of a yellowish brown. Erxl. mam. 567. Schreber, iii. 360. tab. xcii. A.

Silvery Fox. Penn. hift. of quad. n. 143. Arct. zool. n. 13.

Inhabits North America.—This animal is finaller than the Common Fox, with which it agrees in figure and manners.

18. Grey Fox.—15. C. Vulpes virginianus. 16.

Has a straight tail; and the body is of a whitish ash colour. Erxl. mam. 567. Schreber, iii. 361. tab. xcii. B. Briss. quad. 174. Klein, quad. 71.

Grey Fox. Catesby, Carolina ii. 78. tab. Penn. hist. of quad. n. 142. Arct. zool. n. 12.

Inhabits Carolina, and the warmer parts of North America.—Lives in the hollow trunks of decayed trees, and is eafily tamed.

19. Arctic Fox .- 16. C. Vulpes Lagopus. 6.

Has a straight tail; and all the feet are remarkably hairy. Erxleb. mam. 568.

Canis f. vulpes, with a straight tail, having the tip of the same colour with the rest. Syst. nat. ed. xii. 59. Schreber, iii. 362. tab. xciii. Briss. quad. 174.

Inhabits the countries on the Frozen Sea, and in North America, extending as far as Kamtschatka, and the islands between that and America; is found in Greenland, Iceland, Spitzbergen, Nova Zembla, and Lapland, and even so far fouth as Chili.—This animal keeps mostly on the naked mountains, and is feldom found in forests, living in burrows under ground, or in clefts of rocks; it feeds on mice, and the young of geese, ducks, &c.; and, when pressed by famine, cats berries or shell sist. It barks like the Fox, but has not the same setted smell: The semale goes nine weeks with young: The fur is reckoned valuable. Of this species there are two varieties.

144

a. White Arctic Fox. - C. Vulpes Lagopus albus.

Is of a white colour. Kalm. Bahus. 236.

Ifatis, or Arctic Dog. Sm. Buff. vii. 268. J. G. Gmelin. nov. com. Petrop. v. 1760, 358. Penr. hift. of quad. n. 140. Arct. zool. n. 10.

256

β. Bluish Arctic Fox.—C. Vulpes Lagopus caerulescens.

Is of a bluish colour. Faun. Suec. 14.

257

20. Cross Fox. - C. Vulpes crucigera.

Has a black cross on the shoulders.

Vulpes crucigera. Briff. quad. 241. n. 6.—Kors-raef. Faun. fuec. 4.—Crofs Fox. Penn. hift. of quad. n. 139. β. Arct. zool. n. 11. β.

Inhabits the coldest parts of Europe, Asia, and North America.—Has a black mark along the back to the tail, and a transverse black band cross the shoulders; the fur is thicker and softer than that of the Common Fox, and is reckoned valuable. This variety of Fox is paffed over with hardly any notice by Dr Gmelin, but is placed here on the authority of Mr Pennant.

258

21. Chilese Fox .- C. Vulpes chilensis.

Has a straight and very long tail, which is smooth, and the tip is of the same colour with the rest.

Canis culpaeus. Molin. hift. nat. Chil. i. iv. 259.

Inhabits Chili.

259

22. Antartic Fox. - C. Vulpes australis.

The tail hangs down, is bushy, and is tipt with white; the ears are short, erect, and pointed. Penn. hift. of quad. n. 141.

Coyotl, Vulpes indicus, or Indian Fox. Fernand. Mex. 4. Loup-renard, or Wolf Fox. Bougainville's voy. Eng. tranf. 58.

Inhabits America and Falkland's iflands.—This species or variety is about a third larger than the Common Fox, and has much the habits of the Wolf, in the ears, tail, and firength of limbs. It lives near the shores in Falkland's islands, in kennels like Foxes, and has regular paths from one part of the shore to another for furprising the sea-fowl, on which it chiefly feeds. It is very tame, barks like a Dog, and finells very fetid. The head and body are covered with woolly hair of a cinereous brown colour; the legs are dashed with rust colour; the tail is dusky, and tipt with white; the infides of the ears are lined with white hair.

260

23. Zerda .- 17. Canis Cerdo. 17.

Is of a pale yellowish brown colour; having a long, straight, smooth tail, and very long, erect, rose coloured ears.

Cerdon

Cerdo. Skioldebrand, act. Suec. an. 1777, trim. 3. art. 7. t. 6.—Zerda. Penn. hift. of quad. n. 148. t. xxviii.—Anonymous animal. Sm. Buff. viii. 283. pl. cexciv.—Fennec. Bruce's Abyffinia, vol. v. 128. and pl.

Inhabits the great African defert of Zaara, and in Lybia, on the fouth fide of a lake, formerly called Palus Tritonites.—This animal is finaller than the other species of the genus: It is very swift of foot, climbs trees, and lives on locusts and other insects; it barks, or rather yelps, like a young Dog. Dr Gmelin is uncertain whether this animal should belong to this genus; and, from Mr Bruce's account, it certainly should not, since it has retractile claws; but, as that adventurous traveller has not given a description by which the naturalist can refer it to any particular part of system, with a tollerable degree of certainty, it may remain here until a specimen be brought to Europe for examination. It is between nine and ten inches long; the ears are nearly five inches long, and proportionally broad; the muzzle resembles that of a Fox; the toes have short retractile claws; the tail is long, round, and pointed at the end; the colour is white, mixed with a little grey and bright yellow; the ears are naked on the inside in the middle, but the rest of the inside is garnished with long white hairs: the outside is covered with brown hair, mingled with yellow: It lives on the palm trees, of which it eats the fruit.

XV. CAT .-- 14. FELIS 13.

Has fix cutting teeth, all equal, and two tusks in each jaw, and three tusks on each side in both jaws: The tongue is beset with rough papillae, which point backwards: The feet are provided with sharp hooked claws, which are lodged in a sheath, and may be extended or drawn in at pleasure: The head is mostly round, and the visage short.

This genus is rather temperate in its natural appetite, though ferocious: It is tollerably fwift of foot, very agile in climbing trees, and has the remarkable property of alighting on the feet, when accidentally thrown, or falling, from a height, by which the danger, usually attendant on such falls, is prevented. The toes are all provided with very sharp hooked claws, which are retractile, and are always kept inclosed in their sheaths to preserve them from injury, except when necessary to seize on prey, or for climbing: Almost all the species of this genus seize their prey by surprise, lying in wait till it comes within reach, and then suddenly springing forewards at one leap; and, while the prey is in sight, they have a custom of waving the tail from side to side: They mostly suck the blood of such animals as they catch before devouring them: They do not use vegetable food except from necessity*. The semales bring a considerable number at a birth, and have all eight paps, whereof four are situated on the breast, and four on the belly.

This genus is very conveniently arranged, by Mr Pennant, in two fubdivisions, having long and fort tails, which are adopted in this edition.—T.

Vol. I.

^{*} Glans penis muricatus retrorfum.—Gm.

* With long tails, and plain ears.

261

1. Lion .- 1. Felis Leo.

Of a pale tawny colour. Schreber, iii, 376. tab. xcvii. A. B.

Lion, or Felis Leo, having a long tail bushy at the end, and the breast and neek eovered with a long shaggy mane. Syst. nat. ed. vi. p. 4. n. 1. Briss. quad. 134. Gesner, 572. Aldrov. 2. Jonst. quad. 72. Dodart, i. t. 1. and vii. t. 7. Raj. quad. 162.—Lion. Sm. Buss. v. 64. pl. evii. and cviii. Penn. hist. of quad. n. 151.—Anatomy. E. N. C. d. 1. a. 2. obs. 6. Bartholin. act. 1671. n. 17. Nov. com. Petrop. 1771. tab. xvi.

Inhabits Africa, especially its interior parts; and is found, though not in such numbers, in the deferts of Persia, India, and Japan: In ancient times it was likewise to be met with in all the warm regions of Asia, in Palestine, Armenia, and Thrace. - This animal preys on horses, and other large animals, and feldom attacks mankind, unlefs when urged by famine: It is afraid of flame, and may even be kept in awe by means of dogs; is fond of fleeping in the fun's heat; of a lazy and thievifl difpofition, and flow of foot, but catches its prey by leaping on it at unawares; and ufually eats as much at once as will ferve for three days; it has a flinking breath, and weak fenfe of fmelling; when voung may be rendered tollerably tame: The general colour is a pale tawny yellow, though fometimes of a darker hue; the head is large, and of a rounded form, with a fquared fore-head, and large eyes; the lips are pendulous at the fides of the mouth; the heart is faid to be very large: The male is near a third part larger than the female, and is fometimes eight feet long, from the end of the muzzle to the origin of the tail; his breaft is covered with rough hair; and the head and fides of the neck are furnished with a flowing yellowish brown mane, the hair of which is about two feet long, the rest of the body is covered with smooth short hair, and the tail is a little bushy at the extremity. The female is confiderably lefs than the male, and is entirely fmooth in the fur. The voice of the Lion, when irritated, is a horrible roar, proceeding from the wind-pipe being composed of entire eartilaginous rings, which overlap each other like tiles. The flesh of Lions is eaten by fome inhabitants of Africa.

262

2. Tiger .- 2. Felis Tigris. 2.

The body is marked with long dark coloured streaks. Schreber, iii. 381. tab. xcviii.

Felis tigris. Briff. quad. 195. Ludolf. hift. Æthiop. 151. Gefn. quad. 936. Aldrov. dig. 101. Jonft. quad. 84. t. 54. Bont. Jav. 53.—Tiger. Sm. Buff. v. 153. pl. cix. Penn. hift. of quad. n. 152.—Anatomy of the Tiger, E. N. C. d. 1. a. 2. obf. 7. and a. 9. obf. 194. S. G. Gmelin, it. Ruff. iii. 483.

Inhabits the hotter regions of Afia, as far as China and Japan; is likewife found on Mount Ararat, in Chinese Tartary, about lake Aral, and in the Altaic mountains; but is largest and siercest in India, especially Bengal, and the Indian islands.—This animal lives in woods and thickets, mostly by the sides of rivers; is exceedingly cunning, very cruel, immensely strong, and of vast swiftness: It is the greatest enemy of man, even laying whole districts waste, especially in India. Though samed almost from the birth, it will evince its native ferocity, and escape from its chains as soon as an opportunity offers. The Tiger is almost as large as the Lion, and, like him, has a foetid breath. The

male

male destroys his own progeny when he can get to them. Has a most acute sense of seeing: Lies in wait for his prey, and seizes it by a sudden bound. This is the most beautiful of all wild beasts.

This animal, though immensely cruel and ferocious, is yet exceedingly cowardly; and, though he seems to prefer mankind to any other prey, when he can procure such by surprise, will hardly attack openly even the smallest animal that is capable of making resistance. Like the Cat, with which his manners agree very much, he lurks among bushes, crawling slowly on his belly towards such prey as appears, until he thinks he has got within reach, then springs forward from his ambush with an immense bound; but, if he misses his object, makes off without repeating the attempt: When he succeeds, though the animal be a large Bussalo, so vast is his strength, he carries it off with the utmost ease into the recesses of the forest: If undisturbed, he plunges his head into the body of the slaughtered animal, and sucks the blood, before he devours the carcase, as if delighting in ferocious slaughter. The head and body are smooth; the general colour is pale yellow, very beautifully marked with long stripes of black, which point downwards, along the sides, from the back to the belly, and are transverse on the thighs; is often larger than the Lion, some having been found sisteen feet long, including the tail, which is about two-thirds the length of the body and head.

3. Panther.—3. Felis Pardus. 3.

263

264

The upper parts of the body are marked with circular spots, and the lower with streaks. Schreber, iii. 384. tab. xcix.

Felis Pardus. Briff. quad. 194.—Panthera, Pardus, Pardalis, Leopardus. Gefii. quad. 824. Raj. quad. 166.—Pardus. Ludolf. Æthiop. 511.—Panther. Sm. Buff. v. 167. pl. cx. and cxi. Penn. hift. of quad. n. 153.

Inhabits Africa, from the Barbary coast, as far as the southern parts of Guinea, and is likewise said to be found in Asia.—This animal is of a strong make, and is next in size to the Tiger, measuring sometimes near seven feet from the tip of the nose to the origin of the tail, which is about three feet long. The Panther is probably the Tagedanis mal, it is less apt to attack mankind than the Tiger, and confines its depredations chiefly to animals, unless when irritated, or much pressed with hunger. It is said sometimes to enter houses in the night time, and to prey on domestic Cats. The general manners of this species are very similar to those of the Tiger, already described. It is quite untameable, and always ratains a sierce malevolent aspect, perpetually growling or murmuring. The general colour of the hair, which is smooth and short, is bright tawny, having the back, sides, and slanks, elegantly marked with black spots, which are of a circular form, each being composed of sour or sive lesser spots, with a single spot in the center; the spots on the face and legs are single, and the top of the back has a row of oblong spots, the longest of which are next the tail; the chest and belly are white, the former being marked with transverse dusky stripes, and the latter, as is the tail, with large irregular black spots; the end of the nose is brown, and the ears are short and pointed.

4. Ounce. - 4. Felis Uncia. 9.

The body is of a whitish colour, marked with irregular black spots. Erxleben, mam. 508. Schreber, iii. 386. t. c.

The Ounce. Sm. Buff. v. 167. pl. cxii. Penn. hift. of quad. n. 157.

Inhabits the northern parts of Africa, in Persia, Hyrcania, and China, and in Siberia, about the Aitaic and Bucharian mountains, and to the west of Lake Baikal.—This animal is probably the Panthera of Pliny, and the Inaglalis oliveres of Oppian. It is considerably less than the former species of this genus, being about three feet and a half long, and the tail above three feet; it is likewise of milder dispositions, may be tamed, and is even trained to the chase of Antelopes and Hares, becoming as tractable as a well bred Pointer. The huntsman carries him to the field on the crupper of his saddle, making him descend after the game and jump up again at command. The ground colour is a whitish grey on the back and sides, and still whiter on the belly; the head is marked with small round black spots, having a large one behind each ear; the upper part of the neck has large single spots; those on the sides of the back are longitudinally oblong, and composed each of several small spots, almost touching each other, and leaving a void in the middle; the rest of the spots on the body are large, irregularly sigured, composed of smaller spots, and silled in the middle; on the legs they are small, and thinly dispersed; the tail is full of hair, and irregularly marked with large black spots.

265

5. Leopard.—5. Felis Leopardus. 10.

Of a yellow colour, marked with black spots, which are almost contiguous to each other. Erxleben, mam. 509. n. 5. Schreber, iii. 387. t. ci.

Uncia. Caj. op. 42. Gefn. quad. 825.—Leopard. Sm. Buff. v. 167. pl. cxiii. Penn. hift. of quad. n. 154.

Inhabits the warmer regions of Africa, especially on the west side, in Senegal and Guinea; is also found in Asia, on the mountains of Caucasus, and all the way from Persia to China, and in Arabia.—
This species is not much larger than the last described, being about four feet long, and the tail from two to two and a half feet. The manners and dispositions of the Leopard resemble those of the Ounce, being greatly more mild and gentle than those of the Panther. The ground colour of the hair on the back and sides is yellow, beautifully marked with numerous small annular, or rose-like, black spots, situated close to each other, each being composed of sour or sive single small spots; the spots on the face and legs are single; the breast and belly are covered with longer hairs than the rest of the body, which are of a whitish colour; the tail is marked with large oblong spots, and is of an equal thickness from the origin to the extremity. The slesh of this species is eaten by the Negroes, and is said to be as white as veal, and very well tasted.

266

6. Leffer Leopard. - Felis Leopardalis.

Like the former, but much smaller, and having a large black spot on each side of the upper lip. Penn. hist. of quad. n. 155.

This species was kept, some years ago, in the Tower of London, and was said to have come from the East Indies.—The size is very small, not being half so large as the Leopard; the tail is likewise shorter, in proportion to the size of the animal, and tapers to a point; the back, sides, and rump, are covered with bright yellow hair, marked with small circular compound spots; the belly is white, and spotted with black; the face is spotted, having a white chin; and the breast is marked with small spots.

268

7. Jaguar - 6. Felis Onca. 4.

Of a yellowish colour, marked with cornered annular spots, which are yellow in the middle. Schreber, iii. 388. t. cii.

Felis onca. Briff. quad. 196. Brown's nat. hift. of Jamaica, 485.—Brafilian Pardus, or Lynx, called Jaguar by the natives, and Onza by the Portugueze. Raj. quad. 168.—Tlatlauhqui ocelotl, or Mexican Tiger. Hernand. Mex. 498.—Jaguara. Marcgr. Brafil. 235. Pif. ind. 103.—Large Tiger, named Royal Tiger, by the Portugueze. Perr. anim. iii. 287.—Jaguar. Sm. Buff. v. 187. pl. cxiv.—Brafilian Tiger. Penn. hift. of quad. n. 158. pl. xxxi. fig. 1.

Inhabits the hottest parts of America, from Mexico to Buenos Ayres .- This species grows to about the fize of a Wolf, or large Dog, and fometimes larger. In manners and cruelty, though not in courage, it refembles the Tiger, lying in wait for its prey and leaping on it, by furprife, with three vast bounds. It fastens on the shoulders of horses, and other large animals, and is of such amazing ftrength as to carry off animals three times its own fize. It is faid to be fond of human flesh, and that, when it has once tafted of this, it is rapacious of it for ever after; and is believed to prefer Negroes to Europeans, and these to American Indians. It even preys on fishes, and is faid sometimes to attack the Alligator, fastening its claws into the eyes of that reptile, which instantly plunges into the water, where both usually perish. The Jaguar is much afraid of fire, and is very cowardly, being eafily put to flight, even by fhepherds dogs; it makes a great noise in the night, like the howling of a nungry dog. The ground colour of the upper part of the body is yellowish, and marked with eye-like black fpots, composed of smaller spots arranged in a circular sigure, many of which are open in the middle, while others have a fingle fpot in the center; the belly is white, and fpotted with black, as are the legs with finaller fpots; the tail is only half the length of the body, and is marked with long black fpots. -Dr Gmelin supposes that the animal named Guigna in Chili, which is defcribed as of the Feline kind, having a long tail, and marked on the body with circular spots, may be confidered as a variety of this species.

8. Ocelot.—7. Felis Pardalis. 5.

The upper part of the body is marked with long stripes, and the sides and lower parts with round spots. Schreber, iii. 390. t. ciii.

Felis Pardalis. Briff. quad. 199.—Tlacoozelotl, or Tlalocelotl. Hernand. Mex. 512.—Ocelot. or Mexican Cat. Sm. Buff. vii. 243. pl. ccxxxv. and ccxxxvi. Penn. hift. of quad. n. 159. pl. xxxi. fig. 2.

Inhabits the hotter parts of America, particularly Terra firma, California, and New Spain.—The Ocelot, when full grown, is about two feet and a half high, and four feet long. He is a cruel and voracious animal, which cannot be tamed, yet fo cowardly that he flies from dogs and from men, running up trees for fafety. Is faid to extend himfelf, as if dead, on the boughs of trees, to deceive the monkeys, which, prompted by curiofity, approach fo near as to get within reach of his claws. The upper parts of the body are of a bright tawny colour, and the lower parts whitish; all the upper parts being beautifully marked with black spots and stripes disposed horizontally, while the legs and belly are only spotted; the sides are striped with broad tawny and white lines; the ears are short, and are double at the edges, but without pencils of hair; there are five claws on the fore, and

four on the hind paws; the tail is marked with circular bars; the mouth is ornamented with four rows of long whifkers, having from three to five hairs in each row; thefe are as long as the head, of a white colour, but black at the roots.

269

9. Guepard. -- 8. Felis jubata. 11.

Of a tawny brown colour spotted with black, having a mane on the neck. Erxleb. mam, 510. Schreber, iii. 392. t. cv.

Felis jubata. Briff. quad. 271. n. 10.—Tyger-Wolf. Kolben, Cape.—Guepard. Sm. Buff. vii. 251.-Hunting Leopard. Penn. hift. of quad. n. 156. pl. xxx. fig. 1.

Inhabits the fouth of Africa, and India. - This species is of a long make, with a narrow cheft and long legs, and is about the fize of a large Grey-hound. The neck is provided with a mane four or five inches long; and the hair on the belly is about the fame length: The fur is of a pale yellow colour, and fpeckled with finall, fingle, black fpots. In India, this animal is tamed, and bred to the chafe of Antilopes, being carried to the field, in waggons, chained and hoodwinked, till it is let loofe upon the herd, which it attacks at unawares, ftealing along, and concealing itself till it gets a proper opportunity, then darts forwards, with aftonishing velocity, for five or fix vaft leaps; but if this does not fucceed it becomes breathlefs and gives up the purfuit, returning peaceably to its mafter.

270

10. Jaguarete. - 9. Felis discolor. 12.

The body is mostly of a black colour. Schreber, iii. 393. t. civ. B.

Felis nigra. Erxleb. mam. 512. n. 8.—Jaguarete. Marcgr. Braf. 235. Pifo Ind. 103. Raj. quad, 169.—Once. Des Marchais, voy. iii. 300.—Black Couguar. Sm. Buff. v. 201. pl. cxx.—Black Tiger. Penn. hift. of quad. n. 161. pl. xxx. fig. 2.

Inhabits South America.—This is a fierce, strong, and rapacious animal, which, when full grown, is as large as a calf of a year old. The hair is short, very smooth, and of a brownish black colour; the lips, the feet, throat, breaft, belly, and infides of the legs and thighs, are whitish. is mostly of a uniform colour, but is fometimes marked with spots of a full black colour.

271

11. Puma. - 10. Felis concolor. 9.

The body is of a reddish tawny colour, without spots. Mantiff. pl. ii. 522. Schreber, iii. 394. t. civ. A.

Felis fulvo-rufescens. Briff. quad. 272. n. 11.—Puma, or American Lion. Hernand. Mex. 518. -Cuguacuarana, Marcgr. Braf. 235. Raj. quad. 169.—Cuguacuara. Pifo Ind. 103.—Panther. Lawfon, Carol. 117. Catefby, app. xxv.—Brown Tiger. Barrere, Fr. equin. 166.—Couguar. Sm. Buff. v. 197. pl. cxvii. and cxviii.—Puma. Penn. hift. of quad. n. 160. Arct. zool. n. 14.

Inhabits America.—This animal is nearly of the fame fize with the Jaguar, being about as big as a large Wolf: It is fierce and cunning, but will hardly venture to attack mankind: It climbs trees, from whence it drops down on fuch animals as happen to pass. The fur is of a uniform lively red colour, tinged with black, and having no fpots; the chin, throat, and inferior parts of the body, are

whitish :

whitish; the head is very small, with large eyes, and somewhat pointed ears; the teeth are very large; the claws are white, the outmost claw on each fore foot being larger than the rest; the body is long, being five feet three inches from the nose to the tail, which is two feet eight inches long.

151

12. Couguar .- Felis Couguar.

The body is remarkably thin and long.

272

273

274

275

Couguar of Penfylvania. Sm. Buff. v. 200. pl. cxix.

Inhabits the mountains of Penfylvania, Virginia, Carolina, and Georgia, in North America.—The body, from the nose to the tail, is five feet four inches long; the tail two feet six inches; the fore part of the body is one foot nine inches high: It is of a reddish tawny colour above, and whitish on the lower parts of the body.

13. Margay.—11. Felis tigrina. 13.

The body is tawny on the upper parts, and marked with black streaks and spots; the lower parts are whitish. Erxleb. mam. 517. n. 11. Schreber, iii. 396. t. cvi.

Felis grifeo-flavescens, of a yellowish grey colour marked with black spots. Brist. quad. 193.—Wild Tiger-Cat. Barrere, Fr. equin. 152.—Maraguao, or Maracaja. Marcgr. Brast. 233.—Tepe Maxtlaton. Fernand. nov. hisp. 9.—Margay. Sm. Busst. vii. 249. pl. ccxxxvii.—Cayenne Tiger-Cat. Penn. hist. of quad. n. 163.

Inhabits South America.—Is about the fize of a Common Cat, and has nearly the fame voice, but is not capable of being tamed: It lives much on trees, preying on birds, and is very active, going by leaps or bounds.

14. Mexican Tiger-Cat.—Felis mexicana.

Of a blue grey colour, marked with short black streaks. Penn. hist. of quad. n. 167.

Inhabits New Spain.—This animal is about four feet long, from nose to tail, and three feet high; the tail is shorter, in proportion, than any of this division of the genus; the eyes are small; the hair is very strong.

15. Bengal Tiger-Cat. - Felis bengalensis.

The upper parts of the body are of a pale yellowish brown colour, having three rows of short black stripes along the back, and a black perpendicular stripe behind each shoulder. Penn. hist. of quad. n. 164.

Inhabits Bengal.—This is a very elegant animal, which is rather lefs than the Common domcftic Cat: The head, upper jaw, fides of the neck, the back, and the fides, are of a beautiful pale yellowish brown colour; the head and face are striped downwards with black; three rows of short black streaks run along the back pointing towards the tail; a black line is placed behind each shoulder pointing downwards; the chin and throat are white, and surrounded with a black semicircle; the breast,

277

278

breast, belly, and insides of the limbs, are white, and these, with the legs and rump, are marked with round black fpots; the ears are large, and of a dufky colour, having a white fpot on the middle of each on the outfide; between each eye and the nofe is a white line, and another beneath each eye; the whifkers are white; the tail is long, full of hair, of a brown colour, and annulated with black. This animal fwam on board a fhip at anchor off the coaft of Bengal, and produced young afterwards with female Cats in England.

16. Cape Tiger-Cat. - 13. Felis capensis. 14.

The body is of a bright tawny colour, marked on the back with oblong black streaks, and on the fides with numerous small round black spots.

Cape Tiger-Cat. Penn. hift. of quad. n. 162. Forfter, Phil. Trans. vol. lxxi. p. 1. n. 1. t. 1.-Nfusii. Labat, Æthiop. i. 177.

Inhabits the woody mountains at the Cape of Good Hope.—The specimen seen and described by Mr Pennant was near three feet long from the nose to the origin of the tail; the face was marked with black ftripes pointing downwards; the belly white; the tail long, of a bright tawny colour, and fpotted with black; the ears are marked with a femilunar white fpot: 'This animal is of mild difpofitions, and is eafily tamed; its manners refemble those of the Common Cat; and, in its native woods, it preys on hares, jerboas, and antilopes.

17. Manul. - 14. Felis Manul. 15.

The tail is furrounded with black rings; the head is spotted with black, and has two very distinct black streaks on each side. Pallas itin. iii. 692. n. 2.

Inhabits the waftes of Mongul-Tartary, especially in the vicinity of the Selenga and Dschida rivers, and all the middle of northern Afia, from the Ural to the Amur. - This species is about the fize of a Fox, and preys chiefly on the Daurian hare, and other small quadrupeds; it loves open, woodless, and rocky countries: The general colour of the body is tawny, mixed with a few white and brown hairs; the head is large, and is speckled on the crown with black; the cheeks have two dusky lines running obliquely downwards from the eyes; the feet are striped obliquely with black lines; the tail is of an equal thickness, and is surrounded with ten black rings, the three outermost of which are almost contiguous; the limbs are very strongly made.

18 Serval.-15. Felis Serval. 16.

The upper part of the body is tawny, with white round the eyes; the belly is white; the tail fhort; and the whole body is spotted with black. Erxleb. mam. 523. Schreber, iii. 407. t. cviii.

Chat-pard, or Tiger-Cat. Perr. anim. i. 108. t. 13.—Serval, or Mountain Cat. Sm. Buff. vii. 240. pl. ccxxxiv.

Inhabits India and Thibet.—This animal is chiefly found in trees; it flies from mankind, unless when attacked, and cannot be tamed. The eyes are extremely brilliant; the whiskers are long and fliff; stiff; the tail is very short, reaching only to about the middle of the hind legs. The Serval inhabits the mountains of India, remaining almost always on trees, where he makes his nest, leaping with great agility from tree to tree, and preying on birds: The inhabitants of Malabar call this animal Marapute or Maraputa.

19. Common Cat.—12. Felis Catus. 6.

Has a long annulated tail.

Felis, or Cat, having a long tail and fmooth rounded ears. Faun. Suec. 3.

Inhabits the woods of Europe and Eastern Asia, and is domesticated almost every where.-When tranquil the Cat makes a peculiar noise, called purring, and erects the tail, waving it about; it is exceedingly active in all its motions, and climbs trees with great facility; when irritated, it makes a peculiar histing noise, fpits, and strikes with the fore feet, at which time the breath smells strongly of musk: The eyes shine in the dark, and, during the day, the pupils are perpendicularly oblong and narrow, but, in the dark, they are round and very wide; the claws are hooked, firong, and very fharp pointed, but, being retractile, are always kept in their sheaths when the animal walks: The eructations of this animal are extremely fetid; the urine of the male is corrosive, and has a very disagreeable odour; and it always buries the excrement. The amours of the Cat are carried on with ftrange quarrellings, and a horrible mewling noife; but it is very playful with its kittens, which it fummons by a peculiar cry, or with any thing trailing along the ground: When watching for prey, it moves the tail from fide to fide; it preys mostly on mice and rats, and, when in the wild state, on many kinds of finall quadrupeds, and on birds; it eats all kinds of flesh and fish, but rejects hot things, falted meat, and vegetables, and drinks sparingly. On the approach of stormy weather, the Cat washes its face with its fore paws, licking them with its tongue. The fur is electrical, when rubbed in the dark, efpecially when placed on filk; and it is not infefted with fleas. It engenders in the beginning of fpring; the female goes fixty-three days with young, and brings forth from three to fix kittens, which are blind for nine days after birth. It is particularly fond of Marum, Valerian, and Catmint. When thrown from a height, the Cat always lights on its feet, and is proverbially tenacious of life, being faid to have nine lives. The Cat is a ufeful but deceitful and thievifh animal, of which many people have a strong but unaccountable dislike.

There are many varieties found in different parts of the world, which will not admit of any fystematic description; but the following are those which are best marked.

α. Wild Cat.—Fel. Catus ferus. 6. α.

Has a long tail, annulated with brown bars; the body is marked with blackish stripes, of which three are disposed longitudinally on the top of the back, while those on the sides are perpendicular or spiral. Schreber, iii. 397. t. cvii. A. a.

Cat, Felis, variegated with yellowish brown and whitish; the tail being barred alternately with blackish and dirty white. Briss, quad. 192.—Felis sylvestris, Catus sylvestris, Chat sauvage, or Wild Cat. Aldrov. 582. sig. p. 583. Jonst. quad. 127. t. 72. Gesn. quad. 352. Klein. quad. 75. Sm. Bust. iv. 49. pl. xlvi.—Wild Cat. Penn. hist. of quad. n. 166. Brit. 2001. i. 67.—Wilde Kaze. Ridinger, wild. th. t. 240.

Vol. I.

279

283

284

285

280 β. Domestic Cat—Fel. Catus domesticus. 6. β.

Is of a smaller size than the wild varieties, having the hair shorter and thicker. Schreber, iii. 397. t. cvii. B. 1.

Felis domestica, Felis, Catus, Chat domestique, or Domestic Cat. Briss. quad. 191. Aldrov. 564. Gesn. quad. 344. fig. p. 345. Jonst. quad. 126. t. 72. Raj. quad. 170. Sm. Buff. iv. 49. pl. xlvii. Penn. hist. of quad. n. 266. Brit. zool. i. 69.

This is subject to endless variety in colour, like most domestic animals.

281 y. Angora Cat.—Fel. Catus angorensis. 6. y.

Is covered with long, filky, filver coloured hair, which is longest on the neck. Schreber, iii. 398. t. cvii. B. 2.

Briff. quad. 266. n. 4.—Chat d'Angora. Sm. Buff. iv. 49. pl. 1.—Angora Cat. Penn. hift. of quad. n. 166. u.

This variety is exceedingly beautiful, but degenerates, after the first generation, when brought to-Europe, from Angora, in Asia Minor, which is its native country.

S. Tortoise-shell Cat.—Fel. Catus hispanicus. 6. S.

Is variegated with black, white, and orange coloured irregular blotches.

Sm. Buff. iv. 49. pl. xlviii. Penn. hist. of quad. n. 166. s.

Inhabits Europe, chiefly in Spain.

e. Blue Cat.—Fel. Catus caeruleus. 6. e.

The whole fur is of a blue grey.

Chartreux Cat. Sm. Buff. iv. 49. pl. xlix.—Blaue Kaze. Kolbe, Vorgeb. 153.—Blue Cat. Penns. hift. of quad. n. 166. 7.

Inhabits Europe and Siberia. This is commonly called the Cyprus Cat.

ζ. Red Cat. - Fel. Catus ruber. 6. ζ.

Has a red stripe along the back, beginning from the head.

Rotte Kaze. Kolbe, Vorg. 153.

Inhabits the Cape of Good Hope.

n. Chinese Cat.—Fel. Catus sinensis.

The ears are pendulous, and the hair is bright, shining, and variegated with black and yellow.

Sumxi. Sm. Buff. iv. 60. and 64.

Inhabits China.

0. Long-headed Cat. - Fel. Catus aureus.

Of a reddish yellow colour, having a long shaped head with a sharp snout, short legs with weak claws, and round, flat ears.

Penn. hift. of quad. n. 166. d. Seba, mus. i. 76. tab. xlvii. fig. 1.

Inhabits New Spain.

286

287

288

i. Saca .- Fel. Catus madagascarensis.

Has the tail twisted. Sm. Buff. iv. 65.

This is a beautiful variety, which inhabits the island of Madagascar.

LYNXES.—LYNCES.

** Having short tails, and the ears pencilled at the tips.

1. Caspian Lynx.—16. F. Lynx Chaus. 17.

The tail is annulated near the end, and tipt with black; the body is of a brownish yellow colour; the ears are reddish on the outside, and tipt with a pencil of black hairs. Guldenstedt, Nov. com. Petrop. x. 483. t. xiv. and xv. Schreber, iii. 414. t. cx. B.

Cafpian Lynx. Penn. hift. of quad. n. 172.

Inhabits the reeds and woods, in the marfhy places on the western side of the Caspian, particularly on the river Terek, near the castle of Kislar; in the Persian provinces of Ghilan and Masenderan, and about the mouth of the Kur.—This is a very ferocious animal, about two and a half feet long, and nineteen inches high, the tail being eleven inches in length: In manners, voice, and mode of feeding, it resembles the Wild Cat very much; it never comes near inhabited places, and seldom climbs trees; it conceals itself in the day, and wanders about during the night through the fields and swamps, feeding on fish, mice, rats, and birds, which it seizes by surprise.

289

2. Mountain Lynx. - F. Lynx montana.

Has upright pointed ears marked with two brown transverse bars. Penn. hist. of quad. n. 168.

Chat-pard. Mem. pour fervir a l'hist. nat. i. 110.—Catus pardus, Catus montanus, or Cat-a-mountain. Raj. quad. 169. Lev. mus. Arct. 2001. n. 17.

Inhabits North America.—This species is of mild and gentle manners, and grows very fat: It is about two feet and a half long from nose to tail; the head and whole upper parts of the body are of a reddish brown colour, with long narrow stripes on the back, and numerous small round spots on the sides and legs; the belly is whitish; the chin and throat are pure white; the tail is eight inches long, and is barred with black.

Ü 2,

29 I

292

293

3. Persian Lynx.—17. F. Lynx Caracal. 18.

The body is of a pale reddish brown colour; the ears are black, and tusted with black hairs. Schreber, iii. 413. t. cx.

Siyah-ghush. Carleton, ex. 21. t. p. 23. Raj. quad. 168. Phil. Trans. li. p. 2. 648. t. 14. Klein quad. 77.—Caraeal. Sm. Buff. v. 221. pl. cxxiii.—Persian Lynx. Penn. hist. of quad. n. 173. pl. xxxii. sig. 2.

Inhabits Persia, Barbary, Arabia, and India.—This animal is about the size of a Fox, but much stronger and more ferocious, having been known to attack a middle sized dog, and tear him to pieces, in spite of every resistance; it is difficult to tame, but, when taken young, is bred to hunting, in which it is very expert, eatching hares, rabbits, and even large birds, which it surprises with great address: It is said to follow the Lion, to feed on his offals; but dares not do the same with the Panther, which is eruel after being gorged; whereas the former does no injury unless when hungry. The head is small, and the face long, having long slender black ears, which are white on the inside and at their bases, and are terminated with a long peneil of black hairs; the nose is white; the eyes are small; the upper part of the body is of a very pale reddish brown; the tail darker; and the breast and belly whitish; the hind part of each foot is marked with black.

The three following animals are by fome authors confidered as varieties of this species, under the general name of Caracal.

4. Bengal Lynx. - F. Lynx bengalensis.

The tail is as long as the hind legs.

Bengal Caraeal. Sm. Buff. v. 225. pl. cxxiv.

Inhabits Bengal.—The drawing of this animal was fent by Mr Edwards to the Count de Buffon, whogives no farther information respecting it, than that the tail and limbs are much longer in proportion. than those of the former species.

5. Booted Lynx.—F. Lynx nubiensis.

The back parts of all the legs are black, and the extremity of the tail has four black rings.

Nubian Caracal. Sm. Buff. v. 224.—Lybian Lynx. Penn. hift. of quad. n. 173. s.—Booted Lynx.. Bruce, Abyff. v. 146. and fig.

Inhabits Lybia, Barbary, and Ras-el-Feel in Nubia.—This animal is only twenty-two inches long, from the tip of the nose to the origin of the tail; the back, neck, and legs are of a dirty grey colour; the belly is of a dirty white, with undefined red marks or stains: It feeds much on Guinea fowls, and on the offals of beasts left by the hunters, or by other beasts of prey.

6. Barbary Lynx .- F. Lynx lybiensis.

Has a white tail, furrounded with four black rings near the extremity.

Lybian Caracal. Sm. Buff. v 224.

295

296

2:97

2.98

Inhabits Lybia near the ancient Capfa.—The infides of the ears are white, the outfides are covered with bufhy hair of a lively red colour, and the points are tufted with thin fhort black pencils; the feet have black patches behind like those of the Booted Lynx: It is about the fize of a Common domestic Cat, and does not appear to differ very much from the former species.

7. Common Lynx .- 19. F. Lynx vulgaris. 7.

The tail is obscurely annulated and black at the tip; the head and body are of a greyish colour tinged with red, and obscurely maked with dusky spots. Schreber, iii. 408.
t. cix.

Felis Lynx, having a fhort tail with a black tip; and tufted ears. Syft. Nat. ed. xii. 1. p. 62. n. 7.

—Having a fhort tail, and the body of a reddish colour with dusky spots. Faun. Suec. i. n. 4. It.

Wyoth. 222.—Having the ears tufted at their tips with very long hairs, and a short tail. Briss.

quad. 200.—Dasypus pinuum. Nieremb. hist. nat. 153.—Lupus Cervarius. Gesn. quad. 677. Tournes. voy. ii. t. 193.—Luchs. Ridinger wild. thiere. 22.—Lynx. Aldrov. 90. Raj. 166. Jonst. 83.

t. 71. Sm. Buss. v. 206. pl. cxxi. Penn. hist. of quad. n. 170. Arct. 200l. n. 15.

β. White Lynx. -F. Lynx vulg. albus.

Of a white colour, with dusky spots. Faun. Suec. i. 2. n. 5. and ii. 5. n. 1.1. Klein, quad. 77. Briss. anim. 274. n. 14.

y. Yellow Lynx. - F. Lynx vulg. melinus.

Of an uniform whitish yellow on the upper parts and white beneath; the ears tipt with black. Penn. hist. of quad. p. 279.

f. Thibet Lynx. - F. Lynx vulg. maculatus.

Of a yellowish white colour with dusky spots. Penn. hist. of quad. p. 280.

Inhabits Europe, America, the north of Afia, and Japan.—The Lynx keeps mostly in the recesses of the thickest forests, preying on deer, martins, and various kinds of weafels, cats, squared es, birds, and even on its own kind, when pressed with hunger, and attacks sheep and goats even and cots: It is a very cunning animal, possessed of very acute sight and smell, and attacks furprisse. It engenders in February, and, after nine weeks, the semale brings three ones at a litter: It is about the size of a Fox, though some arc considerably larger, and of Wulf-luchs from the Germans; the second variety, or White Lynx, is rather smaller:

8. Canadian Lynx.—F. I.ynx canadensis.

Of a greyish colour mixed with white, and distinctly spotted with black 217. pl. cxxii.

300

Inhabits Canada.—This animal is only about a foot high; the general colour is greyish, mixed with white; the head is in some places striped with black, and the whole body is spotted, in some places darker than others; the tip of the nose, margin of the lower jaw, and outer edges of the ears are black; the tail is thick, very short and bushy, of a reddish white colour at the root, and black on the outer half; the under part of the belly, the hind legs, insides of the fore legs, and the feet, are of a dirty white.

9. American Lynx.—18. F. Lynx rufa. 19.

The lower fide and tip of the tail are white, and the upper fide is barred with black; the body is of a deep bay, obscurely marked with dusky spots. Schreber, iii. 412. t. cix. B.

Bay Lynx. Penn. hist. of quad. n. 171. pl. xxxii. fig. 1. Arct. zool. n. 16.

Inhabits the inner parts of the state of New York.—This animal is about twice the size of a Common domestic Cat: The fore head is marked with perpendicular stripes; the upper lip, on each side, has three rows of minute black spots; the cheeks are marked with several crooked stripes; the whole under parts of the body and insides of the legs are white, except the upper part of the fore legs, on the inside, which have two black cross bars.

XVI. FITCHET.—15. VIVERRA. 14.

Has fix fore-teeth in each jaw; of those in the lower jaw the intermediate teeth are shorter than the rest: On each side of each jaw is one tusk, longer than the other teeth: There are more than three grinders on each side of each jaw. The tongue, in several species, is beset with sharp pointed papillae, which stand backwards. The claws are not retractile.

The animals of this genus have long bodies of an uniform thickness, with short legs; which, for the most part, have sive toes on each foot, armed with claws which are not retractile. The ears are short and small, and the snout is produced and sharp. Between the anus and genitals, is an orisice, which leads to a follicle, or receptacle, containing a fetid unctuous matter. All the species are active and nimble; some walk on a lengthened foot as far as the heel, some climb trees, and some dig in the earth. The semales have all numerous litters.—Perhaps the Surieate, and the two Coatis, together with the Poto, ought to be arranged along with the Badger.

1. Egyptian Ichneumon.—1. Viverra Ichneumon. 1.

The tail is very thick at the root, and tapers gradually to the point, which is tufted; the inner toes are somewhat remote from the rest. Schreber, iii. 427. t. cxv. B.

Muftela

30 I

302

Mustela variegata, or Weasel, variegated with black and white. Briss. quad. 181.—Badger, Meles, having the middle toes longer than the rest, the outer ones of an equal length, and the claws nearly equal. Hasselq. it. 191.—Ichneumon, called Pharaoh's Rat, by the Egyptians. Belon. obs. 95.—Ichneumon, or Egyptian Otter, Lutra aegyptiaca. Aldrov. 298. sig. p. 301.—Ichneumon. Gesn. quad. 566. Alpin. hist. Ægyp. 234. t. 14. f. 3. Maillet desc. de l'Egypt. 90. t. 88. Schaw's trav. ii. upper sig. p. 74. Penn. hist. of quad. n. 211. a.—Great Mangouste. Sm. Buss. vii. 210. pl. cexxiii.

FERÆ.

Inhabits Egypt on the banks of the Nile, and retires to the fields and gardens during the inundation of that river.—This is a fierce and cunning animal, but may be tamed, and is often kept in houfes inftead of cats: It fteals towards its prey, and feizes it by furprife, living on mice and rats, poultry, worms, infects, feveral kinds of amphibious animals, ferpents, frogs, lizards, the eggs of the crocodile, and even the young of that animal; it is a great enemy to weafels and cats, both of which it deftroys when they come in its way. From its great utility in deftroying various noxious reptiles, and especially from its greatly diminishing the number of crocodiles, by feeding on their eggs, this animal was worshipped by the ancient Egyptians as a deity. The Egyptian Ichneumon is about the fize of a Common domestic Cat, but is longer in the body, and has shorter legs in proportion; the forehead is flat; the ears, small, rounded, and almost naked; the nose is long and slender, with a small mouth, having a single row of whiskers at the margin of both lips, towards the cheeks; the upper lip is prominent, and the tongue is rough; the tail is about the same length with the body; the hair is coarse, rough, and often curled, and is barred alternately with white and dusky: Under the tail, both the male and semale have a remarkable aperture, leading to a kind of pouch where an ordorise-rous liquor is secreted; which passage they are said to open when too warm.

2. Indian Ichneumon.—2. Viverra Mungo. 7.

The tail is very thick at the origin, and tapers to a point which has no tuft; the inner toes are somewhat remote from the rest. Schreber, iii. 430. t. exvi. A. and B.

Viverra Ichneumon. β . Syft. nat. ed. xii. 1. 63.—Mustela glauca. Syft. nat. ed. v. Amoen. ac. ii. 109.—Reddish-grey Viverra. Briss. quad. 177.— Mustela, or Viverra Mangutia, so called by the Indians. Kaemps. amoen. 574.—Quil, or Quiopela. Garcias, arom. 214. Raj. quad. 197.—Moncus, Serpenticida, or Serpent-killer. Rumps. herb. amboin. 69. t. 72. f. 2. 3.—Indian Ichneumon. Edw. av. 199. t. 199. Voesmaer desc. Amst. 1772-4. S. G. Gmelin it. iii. t. 30. Penn. hist. of quad. n. 211. β .—Lesser Mangouste. Sm. Buss. vii. 210. p. cexxii.

Inhabits Bengal, Persia, and other hot countries in Asia.—This animal is smaller and smoother than the Egyptian species, but agrees with it in manners, form of body, and way of living. It gives battle to serpents, and even attacks the naja, or cobradi capello, one of the most deadly of that poissonous race; and, when bitten by their poissonous fangs, it is faid to prevent the deadly effect by eating the root of the Ophioriza. It is very much affraid of wind, and impatient of cold; is a cleanly animal, which may be tamed, and taught to follow his master like a Dog. The Count de Busson considers: this and the former as the same species of animal, only differing in size.

3. Cafrarian Ichneumon.—3. Viverra cafra. 8.

The tail is thick at the origin, and gradually tapers to a point, which is black. Schreber, iii. 434. n. 9.

Inhabita

305

the

Inhabits the country at the Cape of Good Hope.—This animal is fimilar in form to the Polecat, but larger, being near two feet long: The ears are very flort and hairy; the mouth is garnified with a fingle row of blackish whiskers; the hair is coarse, shining, and is mixed with yellow, brown, and black colours; the feet are black.

303 4. African Ichneumon.-Viverra Nems.

The tail is thick at the base, and tapers to a point, of the same colour with the rest. Neipse, Nems, or Nims. Sm. Buff. vii. 221. pl. ccxxiv.

Inhabits the eastern part of Africa.—This species is about thirteen inches long, from the muzzle to the origin of the tail, which is twelve inches in length; the fore parts of the body are five and a half, and the hinder parts fix and a half inches high; the mazzle is very tharp, and has no whiskers; the ears are short and naked; the whole upper parts of the body are covered with long coarse hair, of a mixed dark brown and dirty white colour; the belly is of a bright yellow; the head and space round the eyes are yellowish; the nose and cheeks are covered with short brown hair of various shades; the legs are covered with short hair of a deep yellow colour; on each paw are four toes, with a small one behind the rest, and the claws are small and black.

5. Zenik .- 4. Viverra Zenik. 27.

Has only four toes on each foot: The body is of a grey colour, having ten transverse black streaks; the tail is of a dark reddish brown colour, and is black at the point. Sonner. It. ii. 145. t. 92.

Inhabits the country of the Hottentots.—The Zenik is about the fize of the Water Rat, being about feven inches long: The claws on the fore feet are very long, and almost straight; those on the hind feet are short, and hooked; the tail is slender; the snout long; and, according to Sonnerat, there are only two fore-teeth in each jaw, together with fix tusks.

6. Surikate - 5. Viverra tetradactyla. 9.

Has only four toes on each foot; the nose is long and flexible. Schreber, iii. 434. t. cxvii. Four-toed Weasel. Miller, on var. sub. T. xx. Penn. hist. of quad. n. 212.—Surikate. Sm. Buff. vii. 166. pl. ccxv.—Klapper-maus, Meer-Rat, or Suracatje *. Pallas, Miscel. 2001. 59. 60.

Inhabits the fouth of Africa, and the island of Java.—Is about a foot long from nose to tail, which is about eight inches long: It feeds on animal food, and eats raw flesh; being particularly fond of chickens, eggs, and fish; it burrows in the ground, digging the carth with its fore feet; is easily tamed, and in that state is of gentle manners. The head is depressed; the muzzle is very sharp pointed, the upper jaw being much longer than the lower, and the tip of the nose is black; the cheeks are inflated; the mouth is surrounded with black whiskers, which grow from warty tuberosities; the ears are black, small, rounded, and slat; the back is broad and rounded; the belly broad and slat;

^{*} Vide note to the Palm Squirrel. - T.

the legs are short, with small feet, having long claws before and short behind; the hairs on the upper part of the body are brown near the bottom, black on their upper parts, and hoary at the tips; the hair on the back is undulated; the infide of the legs is yellowish brown; the tail is thick at the base, ends abruptly, and is tusted with black: It makes a grunting noise, is much in motion, and often fits upright, with its fore legs hanging down; and when pleafed makes a noise like that of a finall rattle rapidly turned.

306

7. Coati. - 6. Viverra nasua. 2.

Of a dark brown colour; the tail is furrounded with alternate white and brown rings; the nose is long and flexible. Schreber, iii. 436. t. cxviii.

Long-nofed Bear, having a long flexible nofe, and the tail variegated with different coloured rings. Briff. quad. 190.-Vulpes minor, Leffer Fox, or Quachy, having the upper jaw and nofe confiderably lengthened, and the tail variegated with dark brown and white alternate rings. Barrere, Fr. equin. 167.—Coati. Marcgr. Bras. 228.—Coati-mondi. Act. Paris. iii. P. 3. p. 17. t. 37. Raj. quad. 180. Houttuyn, zamenstel ii. 238. t. 15. f. 2.—Black Coati. Sm. Buff. v. 53. pl. civ.— Brasilian Weesel. Penn. hist. of quad. n. 215 .- Guiana Badger. Bancroft, Guian. 141. Lev. Muf.

Inhabits South America.—The Coati is about the fize of a Hare, being eighteen inches long from the point of the nose to the origin of the tail, which is thirteen inches: The general colour of the hair is dark brown, like that of a Fox, having white spots above, below, and at the side of the eyes; the hair on the back is fomewhat harsh, but on the rest of the body it is smooth, fost, glossy, and close fet; on the belly, the breast, and under the jaws, it is whitish; the ears are small, rounded, and black on their upper parts; above the upper eye-lids, below the eyes, on the cheeks, and below the chin, are wattles or hairy warts; the muzzle is lengthened into a long, black proboscis or snout, which is moveable in every direction, having the point as if cut off in an oblique direction inwards, and wanting the usual furrow on the upper lip: Of the fore-teeth, the lateral ones in the upper jaw are larger than the rest, and the middle ones below are convergent; the tongue is divided by fissures into lobes, like an oak leaf; the tail is carried high, is almost as long as the body, is of a brown colour, having ten pale or whitish rings, is flattened so that the hairs shed a little outwards, and is narrowed or compressed at the point; the feet rest on the heel, which is broad: It is by no means nimble, but readily climbs trees; each foot has five toes, the pollex, or inner toe, being in the same line with the rest, and the claws are compressed and sharp pointed: This animal digs remarkably well, searching for earth worms, on which it feeds, as likewise on mice, apples, bread, eggs, and poultry; when irritated it gives out a most intolerably stinking odour.

8. Coati-mondi. - 7. Viverra narica. 3.

Of a hoary brown colour; having the tail of the same colour with the body, and the fnout long and flexible. Schreber, iii. 438. t. cxix.

Long-nofed Bear, having the fnout long and flexible, and the tail of a uniform colour. Briff. quad. 190.—Dusky Brasilian Weesel. Penn. hist. of quad. n. 215. s.—Brown Coati. Sm. Buff. v. 53. pl. cv.—Coati-mondi. Marcgr. Braf. 228.

Vol. I.

307

Inhabits South America.—This animal is rather larger than the former, from which it differs principally in colour; fometimes the tail of this species, or variety, is obscurely annulated: The hairs on the back and sides are dusky at the roots, brown in the middle, and tipt with yellow; the chin, throat, sides of the cheeks, and belly are yellowish; the feet are black and naked: The Coati-mondi digs so deeply as to bury the whole body, except a small part of the tail; it likewise climbs trees, and even takes the water in search of food, living on worms, bread, fruits, roots, eggs, small animals, and birds.

308

9. Coasse.—8. Viverra vulpecula. 10.

Is entirely of a brown or chefnut colour, having a long fnout. Schrcber, iii. 440. t. cxx.

Yzquiepatl, or Little Fox, which refembles the colour of roafted Maize or Coffee. Hernand. Mex. 332. Raj. quad. 181.—Coaffe. Sm. Buff. vii. 295. pl. ccxli.

Inhabits the fouthern states of North America, Louisiana, New Spain, and Mexico.—The Coasse is about fixteen inches long from the nose to the origin of the tail; the head is of a conical form, with a projecting snout of a moderate length, having black whiskers; the whole body is covered with long, thick, and coarse hair, which is of a uniform brown or chesnut colour; the tail is longer than the hind legs, bushy, and of the same colour with the body; the legs are short; the feet are large and naked, having four toes on the force feet; the claws are black and sharp pointed: When irritated or frightened, this animal emits a most fetid odour; and the urine stains and infects whatever it touches, almost indelibly, with this abominable scent: It lives in the holes and cless of rocks, feeding on beetles, worms, and small birds.

309

10. Quasje. - 9. Viverra Quasje. 11.

Of a chefnut colour above and yellowish underneath; having a long snout, and the tail being surrounded with different coloured rings. Syst. nat. ed. x. i. 44.

Meles spadiceo-nigricans, or Badger, of a deep blackish chesnut colour, having a dusky tail variegated with yellowish rings. Briss. quad. 185.—Ichneumon, called Yzquiepatl. Seba, Mus. i. 68. t. 42. f. 2.—Tamandua mexicana, Yzquiepatl, or Little Fox. Seba, Mus. i. 66. t. 40. f. 2.?—Stifling Weefel. Penn. hist. of quad. n. 216.

Inhabits Surinam.—This animal is probably the fame with, or a variety of, the preceding: Its general figure, colour, and manners, are the fame; it digs in the ground, feeds on worms, infects, and fruits; may be domefticated, and is very fetid.

310

11. Striped Skunk .- 10. Viverra Putorius. 4.

Of a blackish colour, having five parallel white stripes, from the head along the back and sides to the tail. Schreber, iii. 442. t. exxii.

Mustela nigra, or Black Weasel, having white stripes on the back. Brist. quad. 181.—Polecat, Skunk, or Fiskatta. Catesby Carol. ii. 62. t. 62.—Concpate. Sm. Bust. vii. 295. pl. cexliii.—Striated Weesel. Penn. hist. of quad. n. 217. Arct. zool. n. 32.

312

Inhabits North America.—This animal is about the fize of a domestic Cat, but longer bodied, and fhorter in the limbs; the head is round, with a lengthened fnout, and naked nofe, having three rows of whiskers round the mouth, which has but a short opening, or ricus; the neck is very short; the head, neck, body, legs, and tail are black, having five white stripes beginning behind the head, one on the middle of the back, and two on each fide, which go fome way up the tail; this is covered with very long hair, is carried horizontally over the back, like that of a Squirrel, and has a white line running along the under fide from the anus to the tip, which is white; the lower parts of the body are variegated with black and white; the fore legs are shorter than the hind legs; the hind feet are long, and, in walking, reft on the heel; both hind and fore feet have five toes, those before having very long and compressed claws, while those on the hind feet are much shorter, and are hollowed underneath: The fore-teeth of the upper jaw are parallel, funk inwards, and equal to each other; the lower fore-teeth are likewife equal in fize, are compressed in their shape, and two of them are placed on the infide of the reft; there are five grinders on each fide in both jaws; the tufks in both jaws stand close to the rest of the teeth, but more so in the lower jaw. This animal digs holes, in which it conceals itself, and sleeps during the day, going about only in the night, feeding on worms and infects, and is fond of flesh, poultry, and eggs: When attacked by dogs it briftles up the hair on its back, and throws its body into a round form; and when irritated or frightened, like most of the fpecies of this genus, it emits a shockingly offensive fetid vapour, and stinking urine, which renders dogs or clothes perfectly intolerable; and it is faid, that the only way to get this abominable fmell from clothes is to bury them, for a day or two, in the earth.

12. White Skunk .- 12. Viverra Mephitis. 13.

The whole back and tail are white, except a longitudinal black line which commences at the root of the tail and reaches to about the middle of the back. Schreber, iii. 444. t. cxxi.

Chinche. Sm. Buff. vii. 295. pl. ccxlii.—Skunk. Penn. hist. of quad. n. 218. Arct. zool. n. 33.

Inhabits America from Chili to Canada.—This species is about fixteen inches long from the nose to the tail; the head is black, with a lengthened snout, and having a longitudinal white line from the nape of the neck to the nose; the upper part of the neck, the whole of the back, except a longitudinal black line along the middle of its posterior half, and the whole tail is white; the tail is covered thickly with very long coarse hair, in some varieties, it is of a blackish colour, and is sometimes tipt with white; the sides, belly, legs, breast, and throat are black; all the toes are furnished with long claws; the hair on the whole body is long, shining, and coarse: This animal is very fond of eggs; it defends itself, like the last described, by means of an intolerable fetor, yet may be tamed-

13. Conepatl. — 11. Viverra Conepatl. 12.

Of a blackish colour, having two white lines running along the back, which are continued to the end of the tail.

Vulpecula puerilis, or Conepatl. Hernand. Mex. 232.

Inhabits New Spain.—This animal is probably a variety of the Skunk.

14. Zorilla.-13. Viverra Zorilla. 14.

The body is mottled with black and white. Schreber, iii. 445. t. cxxiii.

Mafutiliqui, or Mapurito. Gumilla Orenoque, iii. 240.—Zorille. Sm. Buff. vii. 295. pl. ccxliv. Penn. hift. of quad. n. 219.

Inhabits South America.—Is about fourteen inches long from the muzzle to the origin of the tail; the fnout is fhort and blunt; the head and body are variegated with black and white in irregular longitudinal and transverse bands; the hair is long and shining; the tail is covered with very long coarse hair, being black at the rump and almost to the middle, the rest white; the legs and belly are black: This animal emits the same abominable odour with the Skunks, so as even to stupify and overcome the Jaguar, or American Panther.

314

15. Mapurito.—14. Viverra Mapurito. 15.

Of a black colour, having a white line from the fore head to the middle of the back.

Viverra Putorius. Mutis, act. Holm. 1769, p. 68.

Inhabits New Spain, near the mines of Pamplona.—Is about twenty inches long, from the fnout to the tail, which is nine inches long, and whitish at the tip; the head is finall, with a long muzzle, finooth tongue, and no external ears; the feet reft on the heel, and have each five toes armed with long claws: This animal lives in deep holes, sleeping all day, and going about during the night; it is swift of foot, and feeds on worms and infects.—Probably a variety of the Skunk.—T.

315

16. Grison.—15. Viverra vittata. 16.

Has a white fillet from the shoulders across the fore head. Schreber, iii. 447. t. cxxiv.

Grison, or Grey Weasel. Sm. Buff. iv. 266. pl. lxxviii. Penn. hist. of quad. n. 207.—Chinche. Feuillé voy. i. 272.?—Yaguane, and Maikel. Falkner, Patagon. 158. 159.?

Inhabits Surinam, and probably the whole of South America.—This animal is very little known, having only been described by Mr Allamand in his Dutch edition of Buffon; and, what is singular, the remarkable fillet across the fore-head and down the shoulders, though engraved by the Count de Buffon for the improved edition of his Natural History, and given by Dr Gmelin, from Schreber, as the specific distinction of the animal, is not in the smallest degree noticed in Buffon's account of the animal, as quoted from Allamand. The head is very large, with short semicircular ears, and large eyes; there are fix cutting teeth in each jaw, four of them hardly rising above the gums; all the feet have five toes, with yellowish claws; the body is about seven inches long; the whole upper parts are covered with deep brown hair, having white points; under the head and neck the hair is bright grey, the white parts of the hair being as long as the brown; the muzzle, the under parts of the body, the legs, and tail are black; the tail is about half the length of the body, and terminates in a point.

316

17. Ceylon Fitchet. - 16. Viverra zeylanica. 17.

Is of a mixed grey and dusky colour on the upper parts of the body, and whitish underneath. Schreber, iii. 451.

318

Philippine Martin. Camel, Phil. Tranf. xxv. 2204.?

Inhabits Ceylon, and prohably in the Philippine ifles .- In fize, manners, and appearance, this animal refembles the Pine Martin: The feet have five toes, and the claws are somewhat retractile; the tail is as long as the body, and is fomewhat thickened at the origin; the mouth is furnished with five rows of whifkers, and the lower lip is jagged on the edges; the lateral fore-teeth, in the upper jaw, are somewhat longer than the rest, and conically pointed; the rest of the fore-teeth in both jaws are blunt; the tongue is warty.

FERÆ.

18. Cape Fitchet .- 17. Viverra capensis. 18.

Of a black colour, with a grey back, which is edged on each fide with a white line. Erxleb. mam. 493. Schreber, iii. 45. t. cxxv.

Mustela subfusca, or Brownish Weasel, having a longitudinal white line along each side. Brown, Jamaic. 486. n. 1.?—Stinkbinkfem. Kolb. Cape of Good Hope, i. 167.—Blaircau puant, or Stinking Badger. La Caille voy. 182.—Ratel Weefel. Penn. hift. of quad. n. 220.

Inhabits the Cape of Good Hope and Guinea. -- Is fond of feeding on wild honey, and, like feveral fpecies of this genus, defends itself against enemies by emitting an intolerable stench: This animal is about two feet long from the muzzle to the root of the tail, which is eight inches in length; it has no external ears; the fur is long and harsh .- Dr Gmelin thinks this quadruped may be allied to the Glutton: Mr Pennant supposes it the same with the Ratel of Sparrman, described afterwards as a distinct species of this genus, under the name of Viverra Mellivora.

19. Civet .- 18. Viverra Civetta. 19.

The tail is spotted on its upper part, and dusky towards the point; the back has a chefnut coloured mane, and is marked with grey and dusky spots. Schreber, iii. 418. t. cxi.

Badger, Meles, variegated with white, black, and reddiff ftreaks and fpots. Briff, quad. 186.— Civet, or Hyaena, of the ancients. Bclon, obf. 208. f. p. 209. - Civetta. Cluf. cur. poft. 57. - Civet-Cat, Felis zibethi. Gefn. quad. 836. Aldrov. 342. Olear. 7. t. 6. f. 3.—Civet. Sm. Buff. v. 239. pl. cxxvii. Penn. hift. of quad. n. 223.

Inhabits Ethiopia, Guinea, Congo, and the Cape of Good Hope.—In general appearance and manners, this animal refembles the Cat, having a head fomewhat like that of the Indian Ichneumon; the face is spotted under the eyes, and the back has numerous chesnut coloured spots, both round and angular, which change into ftreaks towards the thighs; the legs are of a very dark blackish brown colour; in each jaw, on each fide, are fix grinders; the head is long, with a sharp muzzle, which is black at the tip, and fhort rounded ears; the fides of the face, chin, breaft, legs, and feet, are black; the rest of the face, and part of the sides of the neck are white, tinged with yellow, having three black stripes from each ear, ending at the throat and shoulders; the back and sides are cinereous, tinged yellow, and marked with rows of dusky spots; the hair is coarse, and stands up on the back like a mane; the tail is fomewhat bushy, fometimes wholly black, and fometimes spotted near the base; the body is about two sect three inches long from nose to tail, which is sourteen inches in length: length: The perfume, named *Civet*, is produced by this fpecies and the next in a fack, or aperture, which is fituated between the anus and the privities, in both fexes: The Civets are kept in cages for this purpose, having the perfume, which is about the confistence of soft pomatum, scraped out with a small spoon two or three times a-week, and yield about a dram each time. In a wild state this animal is ferocious, and preys on birds and small quadrupeds; but may be domesticated, and will feed on Millet pap, raw slesh, and fish.

166

319

320

20. Zibet.-19. Viverra Zibetha. 5.

The tail is marked with coloured rings, and the back is variegated with waved black and white streaks. Schreber, iii. 420. t. cxii.

Felis zibethi, Civet-Cat. Gefn. quad. 837.—Animal zibethi, Civet animal, or Hyaena of the ancients, according to Belon. Aldrov. 343. Raj. quad. 178.—Musk animal. Act. Parif. 1731, p. 443.—Zibet. Sm. Buff. v. 239. pl. cxxvi. Penn. hift. of quad. n. 223. \$\beta\$.—Odoriferous Hyaena. P. Castellus, Francof. 1698, p. 8.—Its Anatomy. Bertholin. cent. 4. n. 1. and cent. 5. n. 49.

Inhabits Arabia, Malabar, Siam, and the Philippine islands.—This is a ferocious animal, which is fcarcely tameable, yet may, with difficulty, be domesticated, and very readily returns to its original state of ferocity: When irritated, it erects the hair of the back, and defends itself by biting; it lives on small quadrupeds, birds, and fishes, and even on fruits and roots; and is very active both in running and in climbing trees. The body of the Zibet is two and a half feet long, and of a flender make; it is larger than the Civet, having a longer and more flender muzzle, which is fomewhat concave on the upper part, while that of the Civet is rather convex; in the upper jaw are fix parallel fore-teeth, of which the intermediate ones are somewhat less than the rest; in the lower jaw are likewife fix fore-teeth, whereof those in the middle are a little shorter than the others, being alternately placed within the general line of the teeth; in each fide of each jaw is one tusk, which stands at some distance from the other teeth; the grinders are sharp, pointed, and acutely knobbed, and of these there are five on each side in the lower, and six in the upper jaw; the ears are proportionally shorter than those of the Civet, and are hid in the hair; the head and lower part of the neck are mixed dirty white, brown, and black; the face being of a pale cinereous grey colour; the fides of the neck are marked with black ftripes, which begin near the ears, and end at the breaft and fhoulders; the hair on the body is rather coarse, close set, and waved, of a cinereous grey and black colour; a black line reaches along the ridge of the back, from the middle of the neck fome way up the tail, having two others on each fide; the fides are spotted with black and ash colour; the tail is barred with alternate black and white rings, the black bars being broader on the upper than they are on the lower fide; the legs are dufky, and black at their lower extremities; the tail is longer than that of the Civet, not buffy, though thickly covered with hair, rounded, and marked with alternate rings: The Zibet, in both fexes, is provided with a follicle, or aperture, exactly in the fame fituation with that of the Civet, and furnishing the same kind of perfume.

21. Hermaphrodite Fitchet. - 20. Viverra hermaphrodita 20.

Has a long tail, black at the tip, and three black stripes along the back. Schreber, iii. 426. n. 6.

Fitchet.

322

Inhabits Barbary.—This animal is of an intermediate fize between the Civet and the Genet: The fnout, from the tip to above the nofe, is black, having a white fpot among the whifkers below the eyes; the hair is long, being afh coloured at the roots, and black at the points; the tail is longer than the body; the claws are yellow: Between the penis and anus is a naked part of the fkin of the perineum, having a double fold, from which the trivial name is derived.—Pallas.

22. Spanish Genet .- 21. Viverra Genetta. 6.

Has a long tail marked with coloured rings; and the body is covered with dusky blackish spots. Schreber, iii. 423. t. exiii.

Mustela, Weasel, having the tail variegated with alternate black and white rings. Brist. quad. 186.—Genette. Belon. obs. 73. Gesn. quad. 549.—Genith kaze, Chat d'Espagne. Ridinger, illum. thier. t. Q. D. S. xxviii.—Genet. Sm. Bust. v. 254. pl. cxxviii. Penn. hist. of quad. n. 224.

Inhabits about Conftantinople, in weftern Afia, Spain, and the fouth of France.—This animal refembles the Zibet a good deal, but is confiderably finaller; being feventeen inches in length from nofe to tail, which is above a foot in length; like the Zibet and Civet, it is provided with an aperture, or fac, which fecretes a very weak perfume; the muzzle is fharper, the feet are fhorter, and the tail is longer in proportion than in the Zibet: The Genet frequents moist places, and the neighbourhood of brooks; it is of gentle dispositions, and easily domesticated; and, like the Cat, is useful for catching mice; the body is long, with short legs, a slender head, and sharp muzzle; the hair is fost, shining, and of a greyish ash colour, marked with black spots, which are round and detached on the sides, but unite on the back, so as to form the appearance of continued black longitudinal streaks; on the neck and ridge of the back is a black list of long hair, forming a mane; the black spots on the neck form bars or streaks; and the tail has seven or eight black, and as many whitish rings, alternating with each other; on each side there are six grinders in each jaw.

23. St Germains Genet. - Viverra gallica.

Has a long bushy tail, the first third part of which is whitish grey, mixed with black hairs, and obscurely marked with blackish rings, and the other two thirds are black. Sm. Bust. v. 256. pl. cxxix.

The country of this quadruped is unknown. It was shown at the fair of St Germains in 1772.— The body and head are twenty inches long, and the tail fixteen; the head is long and slender, with a long muzzle, round black ears, large eyes, and long black whitkers, lying flat on the cheeks; the nose is black, and the nostrils are much arched; a black line, beginning above the nose, extends to between the eyes, having a white line on each side of it; there is a white spot above each eye, and a white line below each; the hair on the body is of a whitish grey, mixed with large black hairs, which form a kind of blackish undulations; the upper part of the back is striped and spotted with black, and the rest of the body is very obscurely spotted with the same; the belly is whitish, the legs and thighs black; the paws are short, having sive toes on each, armed with white crooked claws; the hair on the upper part of the neck is somewhat bushy; the tail is thick at the origin: This is a sierce, biting animal, which seeds on sless, and has the physiognomy and principal characters of the Spanish Genet.

167

24. Leverian Genet.-Viverra annulata.

The tail is very long and annulated; and the muzzle is marked with a white spot on each side of the nose, and another on the outer side of each eye. Penn. hist. of quad. n. 225. s. pl. xxxvii. sig. 2. Lev. mus.

The place of this animal is unknown, it being described by Mr Pennant from a specimen in the Leverian Museum.—It is about the size of the Spanish Genet, to which it bears a great resemblance; for which reason I have given it the name of Genet, instead of Fossane, with which animal it is in some degree consounded by Mr Pennant. The sides, thighs, rumps, and upper parts of the legs are cinereous, having many long black hairs on the back; the shoulders, sides, and rump are marked with some dispersed black spots; the tip of the nose, the cheeks, and the throat are black; the forehead, upper parts of the cheeks, and ridge of the muzzle, einereous; the ears are large, upright, rounded, thin, naked, and black; and a black line runs from behind each to the shoulder; the tail is as long as the body, of a cinereous colour, mixed with tawny near the base, and annulated with black.

324

25. Fossane.—22. Viverra Fossa. 21.

The tail is obscurely annulated; the body is cinereous grey, and spotted with black. Erxleb. mam. 498. Schreber, iii. 424. t. cxiv.

Fossane. Sm. Buff. vii. 219. pl. ccxxv. Penn. hist. of quad. n. 225.—Berbe. Bosman, Guin. 239.

Inhabits Madagafcar, Guinea, Cochin-China, and the Philippine isles.—This animal comes nearest in fize and form to the Genets, but has not the perfume bag, or aperture: The body is slender, and it and the legs are covered with cinereous hair mixed with tawny, and obscurely spotted with black; from the hind part of the head four black lines extend to the back and shoulders; the tail is thick, not near so long as the body, ends abruptly, and is obscurely annulated; the belly is of a dirty white colour; the eyes are large and black: It is very wild and difficultly tameable, of ferocious manners, and mischievous aspect; it feeds on flesh and fruits, but prefers the latter, especially Bananas.

325

26. Bizaami.—23. Viverra tigrina. 22.

The tail is annulated and tawny at the tip; the body is cinereous, spotted with dusky brown, and having a black list along the back, from the head to the origin of the tail. Schreber, iii. 425. t. cxv.

Chat bizaam. Voimaer, descr. d'une esp. sing. de chat afric. Amst. 1771.—Blotched Weesel. Penn. hist. of quad. n. 222.

Inhabits the country at the Cape of Good Hope.—Is about the fize of a domeftic Cat; having a round head, a fhort nofe, with white whifkers, and pointed ears; the nofe and cheeks are yellowish white, having a round black spot on each side of the former, and a dusky line down the middle of the fore-head; the back and outside of the limbs are of a reddish brown colour; the sides and thighs are yellowish white, blotched with deep brown; the tail is as long as the body, of a reddish brown colour, and annulated in a spiral direction with black near the end. This animal is of a tolerably mild dispo-

fition,

fition, has no musk or civet odour, and feeds on flesh, preferring that of birds: Dr Gmelin suspects it to be the same with the Foslane, described above.

27. Poto.—24. Viverra caudivolvula. 23.

Of a mixed yellow and black colour, with a long prehenfile tail. Schreber, iii. 453. t. cxxv. B. and i. 145. t. xlii.

Yellow Weefel. Penn. hift. of quad. n. 213. pl. xxxvi. — Potto. Sm. Buff. vii. 293. pl. 4th, ccxl.—Yellow Maucauco. Penn. fyn. quad. n. 108.

This animal is faid to inhabit the mountains of Jamaica.—It is of mild and playful dispositions; it uses the end of its tail to lay hold of any object, or to suspend its body, in the same way with the Sapajous; and, when asseep, lies with its head under the belly, and rolled up like a ball: The head is broad and flat, with swelling cheeks; it has a short dusky nose; small eyes; short, broad, slapping, and distant ears; and a very long tongue; the body is about nineteen inches long, and the tail seventeen; the fur is short, soft, glossy, and close set; on the head, back, and sides, it is of a mixed black and yellow colour; the cheeks, inside of the legs, and the belly are yellow; a broad dusky stripe runs along the middle of the back from the head to the tail, and another, of the same colour, from the middle of the belly to the tail; the tail is round, and of a mixed tawny, or chesnut brown, and black colour; the legs and thighs are very thick and short, having sive toes, all standing forwards, on each foot, armed with large sless coloured claws, which are somewhat hooked.

28. Kinkajou. - Viverra prehensilis.

Of an olive yellow colour, mixed with grey and brown; having a long prehenfile tail. Sm. Buff. vii. 289. pl. 3d, ccxl.

Mexican Weefel. Penn. hist. of quad. n. 214.

326

327

328

Inhabits Mexico and New Spain.—This animal, which the Count de Buffon thinks to be the fame with the Poto, is about two feet and a half long, and the tail is one foot three inches: It refembles the Poto very much, but is greatly larger in all its dimensions; its manners are gentle, and lively, having many of the actions of the Monkey, and uses its tail like the Sapajous; it fits up, and uses its fore paws to catch any thing, or to eat with, like a Squirrel; it is fond of sugar, and all sweatmeats, fruits, and vegetables; will likewise attack and kill poultry, sucking their blood from under the wing, but does not eat the flesh: The nose is dusky; the tongue is very long; the eyes are small; the ears are short, rounded, and dusky; the fides and under part of the throat, and insides of the legs, are of a lively yellow colour; the belly of a dirty yellowish white; the under part of the paws is naked, and of a vermilion colour, having five toes armed with white hooked claws, which are guttered beneath.

29. Ratel.—25. Viverra mellivora. 24.

The back is of a dark grey colour, with a black streak along each side; the belly is black; the claws are long, hollow underneath, and sitted for digging. Blumenback Naturg. 97.

Ratel. Sparrman, act. Stock. 1777, t. iv. f. 3. Vol. I.

330

331

Inhabits the Cape of Good Hope.—This animal lives on wild honey and wax, which he digs from the holes of Porcupines, Jerboas, Rabits, Jackals, and other animals, in which the bees form their hives; these he discovers by observing the slights of the bees, or is led to them by following the Cuculus indicator, or Honey-guide Cuckoo, which feeds on bees, and points out their places of abode. The fur of this animal is very thick set, and the skin is extremely lax, though exceedingly thick and strong.

30. Striped Fitchet. - 26. Viverra fasciata. 25.

The body is of a grey colour above, having fix longitudinal black stripes, and is white on the under parts; the tail is covered with long black and reddish hairs.

Indian Wild-Cat, having black stripes. Sonneret, it. ii. 193. t. 90.

Inhabits India.—The body of this species is about two feet nine inches in length; the feet have each five toes, armed with strong hooked claws; and the eyes are very vivid. According to Sonneret, there are fourteen tusks, and only two fore-teeth, in each jaw.

31. Malayan Fitchet .- 27. Viverra malaccensis. 26,

The tail is very long, and marked with black rings; the body is of a grey colour, being spotted with black on the upper parts, having four round spots above the eyes, and three black stripes on the neck and back.

Malayan Civet. Sonneret, it. ii. 144. t. 91.

Inhabits the peninfula of Malacca.—It is of the fame fize with the Domeftic Cat, which it refembles in its manners, being very wild, and living on prey: It is extremely agile, and leaps with great facility from one tree to another; has a ftrong odour of musk or civet, and retains its urine for a great length of time, on which account it is held in great estimation by the Malays as an aphrodistac, and strengthener of the stomach: The body is of a pearly white colour, marked with fix rows of small black spots, seven in each row; the upper part of the head, the thighs, and legs, are black; the ears are very small and rounded; the eyes are small and of a black colour; the feet are provided with five claws, which are armed with sharp, hooked, and retractile claws.—On account of the retractile nature of the claws, this quadruped might be supposed to belong to the genus of Felis, but is excluded from that tribe by the sharpness of the muzzle and length of the body.—T.

32. Spotted Fitchet.-Viverra maculata.

The body, legs, and tail, are black, irregularly blotched with white.

Spotted Martin. Philips, voy. to New-South-Wales, p. 276. and pl.

Inhabits New-South-Wales.—The body and head are about a foot and a half long; the vifage is long and pointed, with large, blunt, erest ears, and numerous long reverfed whitkers; the tail is long, taper, and of the same length with the body; the legs are of a moderate length, with very long feet, resting on the heels, and having five toes on each foot, the inner toe on the hind feet being separated from the rest, and is very small, and short.

XVII. WEASEL.—16. MUSTELA. 15.

Has fix cutting teeth in each jaw; those in the upper jaw are erect, sharp-pointed, and distinct; in the lower jaw they are blunter, huddled together, and two are placed within the line of the rest: The tongue is smooth.

In many circumstances the Otters and Weafels agree together; the body is very long, and of an equal thickness; the legs are short, with smooth shining hair; the claws are not retractile; they dig holes, or burrows, in which they reside; and they chiefly go about, in search of prey, during the night: But the Otters live almost constantly in the water, swimming with great readiness, both on the surface and below it, and subsist chiefly on sish; they do not climb trees, neither do they leap, with a crooked body and stretched out tail, in the manner of the Weafels; the licad of the Otter is larger and thicker; the tongue is covered with soft papillae; they have sive grinders on each side of each jaw: The Weafels have four grinders above and sive below, or sive above and six below, on each side. From all these circumstances, and from the peculiar conformation of their feet, perhaps it were proper to separate them into distinct genera; but as they are placed in the same genus by the great Linnaeus, these animals are here only divided into two subordinate sections.

* OTTERS.—LUTRÆ.

Having the toes of the hind feet webbed, or connected together by a membrane.

1. Sea Otter. 1. M. Lutra Lutris. 1.

The hind feet are webbed and hairy; and the tail is only a quarter of the length of the body.

Lutra marina, or Sea Otter, having hairy feet, and a hairy tail, which is only a quarter of the length of the body. Erxleb. mam. 445. Schreber, iii. 46. t. cxxviii. Penn. hift. of quad. n. 230. pl. on the title of vol. ii. Arct. zool. n. 36.—Kalan. Steller, nov. com. Petrop. ii. 367. t. 26.

Inhabits the coasts of North-west America and Eastern Asia, and the intermediate islands.—The head is flat, having small, roundish, hairy ears; an obtuse muzzle, with a black nose, the upper jaw being longer and broader than the lower, and having numerous stiff whiskers, above and at the sides of the eyes, near the corners of the mouth, on the sides of the under lip, and under the throat; in each jaw are six fore-teeth, those above being equal in size and appearance, while of those in the lower jaw, the two outermost are divided into two lobes, and two alternate teeth of those in the middle are set within the line of the rest; the legs are thick and short, having sive toes on each foot, all of them connected by membranes; the tail is slattened and considerably shorter than the body. This animal is, from nose to tail, about three feet long, and the tail is about thirteen inches; the whole body and the limbs are black, except the fore part of the head, which is white or grey; the largest individual weighs from seventy to eighty pounds; the fur is very thick, long, black, and glossy, some

334

335

times varying to filvery, with a foft down beneath. The Sea Otter lives mostly in the fea; is exceedingly harmless, and very affectionate of its young; it runs swiftly on the land, and swims with great facility, frequenting shallows which abound in fea weeds; it feeds on lobsters, fish, Sepiae or Cuttle-fish, and shell-fish; it breeds once a-year; the semale brings forth but one at a time, which she suckless near a twelvemonth. The skins are much in request, being sold at a very high price to the Chinese. The trade for this fur at Nootka had lately almost produced a war between Great Britain and Spain.

2. Brasilian Otter.—1. B. M. Lutra brasiliensis.

Of a black colour, with a yellow fpot below the chin; the tail is flat, naked, and reaches only to the fee.

Lutra nigra, or Black Otter, with a yellow fpot below the chin. Briff. quad. 202.—Brafilian Otter. Raj. quad. 189. Klein quad. 91. Penn. hift. of quad. n. 227.—Lutra nigricans, or Blackish Otter, having a naked flattened tail. Barrere Fr. equin. 155.—Jiya, or Carigueibeia, of the Brafilians. Marcgr. Braf. 234. Jonst. quad. t. 66. Des Marchais, iii. 306.—Guachi. Gumilla, hift. de l'Orenoque, iii. 239.

Inhabits Brafil, Guiana, the Oronoko, and other rivers of South America.—Is about the fize of a middling Dog, and weighs from forty to a hundred pounds: The head is round, and refembles that of a Cat, as do the teeth; the eyes are finall, round, and black; the muzzle has large whifkers; the ears are round; the feet are like those of a Monkey, having each five toes, the inner one shorter than the rest, armed with sharp claws; the hair is short, soft, and entirely black, except the head, which is dusky, and the throat, which is yellow: It lives on fish and crustaceous animals, robbing the fish-crmen's nets and wears, with great dexterity; is very sierce, but may be tamed when young; it burrows on the banks of rivers, and lives in society, going together in large troops.

3. Saricovienne.—M. Lutra paraguensis.

About the fize of a cat; of a mixed grey and black colour; and having webbed feet.

Saricovienne. Sm. Buff. vii. 321. Penn. hift. of quad. n. 229.

Inhabits along the Rio de la Plata.—This animal lives more in the water than on land; the fur is as fine as velvet; the flesh is reckoned very delicate eating.

4. Chilese Otter.—M. Lutra chilensis.

Has hairy webbed feet; and a long round tail. Molina, hift. nat. Chil. l. iv. 252.

Inhabits the coasts of Chili.—Dr Gmelin only mentions this species in a note of his edition of the Systema Naturae, and seems uncertain whether it ought to be considered as an Otter, resembling the Brasilian species, or as a species of Weasel, allied to the Cat tribe, *Mussela felina*: The description of the feet is certainly a sufficient mark of its belonging to the tribe of Otters.

336 5. Common Otter. - 2. M. Lutra piscatoria. 2.

The hind feet are webbed and naked; and the tail is about half the length of the body.

Murtela

338

lour

Mustela Lutra. Syst. nat. ed. Gmcl. 1. p. 93. n. 2. Faun. Suec. 12. S. G. Gmel. It. iii. 285. 373. Erxleb. mam. 448. n. 2. Schreber, iii. 457. t. exxvi. A. B.—Lutra, or Otter, with equal toes. Faun. Suec. i. n. 10. Gesn. quad. 775. sig. p. 776. Gesn. aqu. 608. Aldrov. 292. s. p. 295. Jonst. quad. 150. t. 68. Raj. quad. 187. Sm. Bust. iv. 232. pl lxviii.—Greater Otter. Penn. hist. of quad. n. 226. Brit. 2001. i. n. 19. Brit. 2001. illust. tab. c. Arct. 2001. n. 34.—Fischotter. Ridinger, wilde thier. t. 28.—Its Anatomy. E. N. C. d. 1. a. 3. obs. 195. and d. 2. a. 10. obs. 112. and cent. 10. app. 468.

Inhabits Europe, North America, and Afia, as far fouth as Perfia. This animal frequents fresh water rivers, lakes, and sisth ponds, but is never found in the sea; it preys on sisth, frogs, and fresh water crustaceous animals, being exceedingly destructive to sisth ponds; it lives in holes under ground, which always open under the surface of water; these are constructed with great care to prevent their being overslowed, and are carried upwards so as to have a small air-hole opening in the middle of some bush. The Otter procreates in February, and brings forth three or four young ones in May; the male calls the semale by a fost murmuring noise; it is a crasty, and cruelly biting animal, yet may be tamed, and even employed to catch sish for its master. It is in general about two sect long, from the tip of the nose to the base of the tail, which is sixteen inches in length; the male weighs from eighteen to twenty-fix pounds; the semale from thirteen to twenty-two: The fur is of a deep brown colour, with two small white spots on each side of the nose, and one beneath the chin; the throat and breast are cinereous; the head is broad and stat, with a short broad nose, thick lips, and large whishers; the ears are short; the neck is short and thick; the legs are short, thick, and loosely connected to the body, having on each foot five toes, which are connected together by webs.

6. Canadian Otter. - M. Lutra canadensis.

Of a black colour and smooth fur; with a long taper tail. Sm. Buff. vi. 324. pl. ccxlvii.

Inhabits Canada, and other parts of North America.—The Count de Buffon, inftead of describing this animal, gets into a long disquisition about the Latax of Aristotle, which he finally determines is not the species in question. In a note, he quotes Dennis, who says, that the Otters of North America are commonly much larger and blacker than those of Europe, some being as black as jet; and that their fur is finer. By the plate, the throat and lower parts of the sace seem of a whitish or grey colour.

7. Lesser Otter. - 3. M. Lutra fulva. 3.

The feet are webbed and very hairy, having toes of an equal length; and the mouth is white. Faun. Suec. 12. Lepechin, It. i. 176. t. 12.

Mustela Lutreola. Syst. nat. cd. Gmel. 1. p. 94. n. 3.—Lutra minor, or Lesser Otter. Erxleb. mam. 451. n. 3. Schreber, iii. 462. t. cxxvii. Penn. hist. of quad. n. 228. pl. xxxviii. Arct. zool. n. 35.—Dusky Weasel, Viverra fusca, having a white mouth. Leche, act. Holm. 1759, P. xxi. 292. t. 11.—Viverra Lutreola. Pallas, spicil. zool. xiv. 46. t. 8. f. 1.—Noerza. Agric. de anim. subter. 39.

Inhabits Germany, though rarely, Poland, Finland, Ruffia, and Siberia.—Lives in marthy places, preying on fifth and frogs: Seldom exceeds a foot in length: The body is of a tawny and dufky co-

340

lour mixed together, the fur having two feries of hairs, the shorter of which are yellowish, and the long ones black; the top of the head is hoary; the chin white; the feet are broad, webbed, and covered with hair; the tail is dusky, and becomes broader and darker coloured towards the end. This is a most excessively fetid animal, but its fur is very valuable, being esteemed next in beauty to that of the Sable.

FERÆ.

8. Cayenne Otter.—M. Lutra guianensis.

The hind feet are webbed; the toes on the fore feet unconnected; and the tail is long, taper, and naked.

Small Guiana Otter. Sm. Buff. iv. 236. pl. lxix.

Inhabits Cayenne, and probably in other parts of South America.—Is only about feven inches long, from the nose to the rump; the tail is near feven inches long, of a brown colour, has no hair, is thick at the origin, and gradually diminishes to the extremity, which is white, it is round above and flat below, and is covered with a rough granulated skin; the upper parts of the head and body are marked with large brownish black spots, exactly corresponding on both sides, and the intervals are of a yellowish grey colour; all the under parts of the body and head, and the fore parts of the fore legs, are white, and there is a white spot over each eye; the ears are large and round; the mouth is garnished with long whiskers.

The Count de Buffon informs us that there are three species of Otters in Cayenne: 1st, Black, which weighs from forty to fifty French pounds. 2d, Yellowish, weighing twenty or twenty-five pounds. 3d, The small greyish kind, above described, which only weighs three or four pounds. The other two are not described; but they are said to appear in numerous troops, to be very fierce and dangerous, and to defend themselves against dogs, biting very cruelly; they litter in holes which they dig on the banks of rivers; are often tamed and brought up in houses.

The fame great naturalist, on the authority of two gentlemen who resided in Cayenne, mentions a large animal, under the name of Otter, weighing near a hundred pounds, which lives in the large unfrequented rivers, often showing its head above water; its cry is heard at a great distance; the hair is fost, short, and of a dark brown colour; it lives on fish, and such grain as falls into the water from the bank.—I should rather suspect this last animal to belong to the Seal genus.—T.

9. Minx.-4. M. Lutra Minx. 5.

The feet are webbed; and the whole body is of a uniform full chefnut colour. Schreber, iii. 463. tab. cxxvii. B.

Mustela Vison. Syst. nat. ed. Gmel. 1. p. 94. n. 5.— Mustela castanea, Weasel, having the whole body covered with dark chesnut coloured hair. Briss. quad. 178. n. 6.—Minx. Lawson Carolin. 121. Kalm. it. iii. 22.

Inhabits North America.—This animal lives on the banks of the rivers, preying on fifthes, birds, and mice, and fometimes frequents the farm-houses. Mr Pennant confiders this as being the same animal with the Lesser Otter already described, though the colour of the two are certainly different.

Dr Gmelin quotes an animal from the Count de Buffon, as a fynonime to this, under the name of Vifan, which has a much greater refemblance to a Weafel than to an Otter, and cannot therefore be

MAMMALIA. 175

the same with the animal in question: For this reason, and on the authority of Mr Pennant, the Vifon is removed to the division of Weafels.

** WEASELS.-MUSTELÆ.

Having the toes unconnected.

341

342

343

1. Tayra.—1. Mustela barbara. 4.

Of a black colour; having a three lobed spot on the under part of the neck.

Mustela maxima, or Largest Weafel, of a black colour, having a strong fcent of musk, called Tayra. Barrere, Fr. equin. 155.—Guiana Weefel. Penn. hift. of quad. n. 209.

Inhabits Guiana and Brafil.—Is about the fize of the Martin, having coarfe black hair; the ears are rounded and downy; the fpace between the eyes is ash coloured; the white fpot is placed under the middle of the neck, not under the throat: The female has four teats, which are fituated on the middle of the belly, near the navel. It is faid that this animal, by rubbing itself against trees, leaves a kind of uncluous matter which has a strong odour of musk.

2. Galera .- 2. Mustela Galera. 2.

Of a uniform dusky brown colour. Erxleben, mam. 453.

Galera fubfufca, or Brownish Galera, called Guinea Fox; having a long tail, black eyes, and flat, almost naked ears. Brown, Jamaic. 485. t. 29. f. 1.—Guinea Weefel. Penn. hist. of quad. n. 208.—Galera, or Tayra. Sm. Buff. viii. 265.

Inhabits Guinea.—This species is about the fize of a small Rabbit, and is shaped like a Rat; the upper jaw is much longer than the lower; the eyes are placed midway between the ears and tip of the nose; the ears refemble those of mankind; the tongue is rough; the tail hangs downwards, and tapers to the point; the feet are ftrong and formed for digging; the fur is rough. This animal is very common about the Negro villages, burrowing like a Rabbit; is very fierce and deftructive to poultry.

Dr Gmelin confounds this and the following animal together, but, on the authority of the Count de Buffon and Mr Pennant, I have ventured to separate them.—T.

3 Vansire. - Mustela afra.

The colour of the upper parts of the body is brown; that of the under parts pale yellow; the tip of the tail is blackish.

Viverra javanica, or Java Weafel. Briff. quad. 245. Seba, Muf. 1. 77. t. 48. f. 4. - Vansires Sm. Buff. vii. 221. pl. ccxxvi. - Madagafcar Weefel. Penn. hift. of quad. n. 203.

Inhabits Madagafcar and the interior parts of Africa.—The length, from the tip of the nofe to the rump, is fourteen inches, of the tail near ten; the hair is brown at the roots, and is barred above

with

with black and rufty brown; the ears are fliort; in the upper jaws are twelve grinders, fix on each fide, and ten in the lower.

344

4. Pekan.—3. Mustela canadensis. 13.

The fur is of a blackish tawny, or bay, colour; having a white spot on the breast. Erxleb. mam. 455. Schreber, iii. 472. t. cxxix.

Pekan. Sm. Buff. vii. 307. pl. ccxlv. Penn. hift. of quad. n. 204. Arct. zool. n. 28.

Inhabits North America.—This animal, in its form, is like the Pine Martin; the body and head are near two feet long, and the tail above ten inches; the hair on the head, back, and belly, is very foft and gloffy, cinereous at the roots, and of a bright bay at the ends; the fides are tinged with grey; the legs and tail are black; there is a white fpot between the fore legs; the toes are thickly covered with hair, and are armed with fharp claws; the ears are a little pointed; the mouth is garnished with very long and strong whiskers.

345

5. Vison. - Mustela Vison.

Of a bright and gloffy tawny brown colour; the tail dufky. Sm. Buff. vii. 307. pl. ccxlvi. Penn. hift. of quad. n. 205. Arct. zool. n. 29.

Inhabits North America.—Refembles the Martin: The body and head are above feventeen inches long, and the tail nine; the legs are very fhort; the ears are rounded; beneath the hair is a thick foft down, of a cinereous colour tipt with rufty brown.

346

6. Common Martin. - 4. Mustela Foina. 4.

Of a blackish chesnut colour; the throat and breast white. Erxleb. mam. 458. Schreber, iii. 472. t. exxix.

Weafel, Mustela, having the hairs whitish at the roots, and chesnut coloured at the extremities; the throat white. Briss. quad. 178.—Martes domestica, or Common Martin. Gesn. quad. 765. Aldrov. 332. Jonst. quad. 156.—Martes, Foyna, Martlet, or Martin. Raj. quad. 200.—Martin. Penn. hist. of quad. n. 199. Sm. Buff. iv. 239. pl. lxx.—Marder. Ridinger, klein. thier. t. 85.

Inhabits Britain, Germany, France, and most parts of the south of Europe; and is found even in the warmer parts of Russia. – Goes about during the night in quest of prey, living on small quadrupeds, frogs, and birds, being particularly greedy of poultry and eggs, even devours ripe fruits, and is a great enemy to cats; may be tamed, if catched young. The semale, when young, brings three or four, and, when full grown, as far as seven at a birth. The body and head are a foot and a half long; the tail ten inches; the body, sides, and legs are covered with hair, which is ash coloured at the bottom, bright chesnut in the middle, and black at the tips; the throat and breast are white; the belly deep brown; the tail is dusky and full of hair; the seet are broad, covered at the bottom with thick down, and armed with white claws; the head is brown with a reddish tinge, having broad rounded cars, and lively eyes. It is a most elegant, lively animal, very good natured, sportive, and capable of

348

349

being tamed; lives in woods, breeding in hollows of trees, and is often, in winter, found in magpies nefts. The skin and excrements have a musky finell.

7. Pine Martin .- 5. Mustela Martes. 5.

The body is of a dark or blackish chesnut colour, with a yellow breast and throat. Erxleb. mam. 455. Schreber, iii. 475. t. cxxx.

Mustela, or Weasel, having hair of a cinereous grey or whitish colour at the roots, and chesnut at the extremities, with a yellow throat. Briss. quad. 179.—Martes sylvestris. Gesn. quad. 766.—Pine Martin, Martes abietum. Raj. quad. 200. Penn. hist. of quad. n. 200. Arct. 2001. n. 27.—Yellow-breasted Martin. Briss. 2001. i. 81. Sm. Buff. iv. 245. pl. lxxiii.—Martes. Aldrov. dig. 331.—Marder. Ridinger, wilde thiere. t. 30.

Inhabits the north of Europe, Afia, and America; and is more rarely found in Britain, France, Germany, and Hungary; and as far as Tonquin and China.—Lives in large woods or forests, keeping in the day time in the hollows of trees, occupying squirrels nests, especially for their young, and only goes about by night: It preys on squirrels, mice, rats, and small birds; eats likewise berries, ripe fruit, and honey; and, in winter, goes in quest of pigeons and poultry. It procreates in February, and is said, after nine months, to bring forth seven or eight young ones: The head is shorter, and the legs are somewhat longer, than in the Common Martin. The fur of this species is far superior in fineness to that of the common kind, and is a prodigious article in commerce: Those about Mount Caucasus, with an orange throat, are more esteemed by surriers than the rest.

8. Guiana Martin. - Mustela guianensis.

Of a dark brown colour, with a white fore-head, and a long narrow stripe along the fide of the neck. Sm. Buff. iv. 243. pl. lxxi.

Inhabits Guiana.—The body and head are near two feet long, and the tail is only about five inches: The fur is fprinkled with black and white; the muzzle is much lengthened, and black, which colour extends above the eyes, paffes under the ears along the neck, and lofes itfelf in the brown hair of the shoulders; the top of the head is whitish grey; the neck is brown, interspersed with ash coloured hairs; the hairs of the body are grey and ash coloured at the roots, brown in the middle, and black and white at their extremities; the under part of the jaw is blackish brown, which colour extends under the neck, and vanishes towards the belly, which is bright brown or chefnut; the legs and feet are covered with shining reddish black hair; the tail is more bushy at the root, and is of a bright brown mixed with black.

9. Cayenne Martin .- Mustela laniger.

Is covered with woolly hair; and the tail is long and taper.

Small Guiana Martin. Sm. Buff. iv. 244. pl. lxxii. - Woolly Weefel. Penn. hift. of quad. n. 210.

Inhabits Cayenne.—The body and head are near fixteen inches long, and the tail near nine; the nofe is very long and flender, the upper jaw being longer than the under; the ears are fhort and round-Vol. I.

35 I

352

ed; the legs are short.—The Count de Busson, though he gives this animal from the life, does not inform us of its colour or manners: The belly, lower part of the neck, and a spot behind the eye, feem, from the sigure, to be whitish or grey. Though Mr Pennant makes two distinct species of this and the American Fitchet, Hist. of quad. n. 194. I am inclined to think that both descriptions refer to the same animal.—T.

10. Sable. - 6. Mustela Zibellina. 9.

Of a dark tawny brown or blackish colour, with a very white fore-head, and cinereous throat. Schreber, iii. 478. t. cxxxvi. Pallas, spicil. zool. xiv. 54. t. 3. f. 2.

Mustela, or Weasel, of a dark tawny colour, with a grey throat. Brist. quad. 180.—Sobela, Zobela, or Zibellina. Gesn. quad. 768. Aldrov. dig. 335. Jonst. quad. 156. J. G. Gmelin, nov. competrop. v. 338. t. 6.—Sable. Sm. Buff. vii. 309. Penn. hist. of quad. n. 201. Arct. zool. n. 30.

β. White Sable. - M. Zibellina alba.

Of a fnowy white colour. Strahlenberg, hift. ruff. 442. Penn. hift. of quad. p. 322.

Inhabits the northern parts of Afia and America, Siberia, Kamtfchatka, and the Kurile islands,. and formerly in Lapland; being found in Asia as low as 58°, and in America even to 40° of latitude: -This species is much infested by wild cats: It preys on smaller animals of the Weasal tribe, squirrels, and hares; during winter on birds, efpecially partridges; and in winter eats hurtle-berries, crane-berries, and the berries of the fervice tree, or mountain-ash; it sleeps in the day time, going about only in the night; procreates in January, and brings forth, about the end of March, from three to five young ones. This animal has a great refemblance to the Martin; from which it differs in having a longer head, longer ears, furrounded by a yellow margin, longer and more elegant fur, the feet more thickly clothed with hair, and the tail is shorter than the hind legs when extended, while that of the Martin is much longer. The colour of the hair is cinereous at the bottom, and black at the tips; the chin is cinereous, fometimes white, yellowish, or spotted; the mouth is garnished with long whifkers; the feet are large, with white claws. In fpring, after fhedding the coat, the fur is fometimes of a tawny cast, and fometimes varies to snowy whiteness. The blackest are reputed the best, and fometimes fell, even in Siberia, from one to ten pounds Sterling each. The white variety is very rare; and fome, as rarely, are found which have a collar of white or yellow spots round the neck. The Sable is probably the Sallegior, or Satherius, of Aristotle, Hist. an. lib. viii. c. 5.; which. he classes with the animals that are conversant among waters; such as the Beaver and Otter-

11. American Sable .- M. Zibellina americana.

Of a light tawny colour, with whitish head and ears. Penn. hist. of quad. n. 201. s.

Inhabits North America, especially in Canada.—Is twenty inches in length, from nose to rump; the trunk of the tail is five inches long, but to the end of the hairs eight; the ears are more pointed than the former; the feet are very large, of a brown colour, and hairy both above and below, having five toes with white claws on each.

353 12. Black Sable.—M. Zibellina nigra.

The back, belly, legs, and tail, are black; the fides are brown; the tail is very bushy.

Fisher Weesel. Penn. hist. of quad. n. 202. Arct. zool. n. 31. Lev. mus.

Inhabits North America, particularly New York and Penfylvania.—Is two feet four inches long from nofe to rump, and the tail feventeen inches; the hairs on the back, legs, belly, and tail, are brownish at the base, and black at the ends; the fides are brown; the face, and sides of the neck, are pale brown, or cinereous; the nose is black, with strong, stiff whiskers; the ears are broad, rounded, dusky on the outsides, and edged with white; the feet are very broad, and are covered with hair both above and below, having five toes before, and four, sometimes sive, behind, armed with strong, sharp, crooked claws; the tail is full and bushy, but smaller at the extremity. Though called the Fisher Weasel, it is not amphibious, but preys on all lesser quadrupeds: It has six small fore-teeth in each jaw; six large tusks in all; sour grinders on each side of the upper jaw, three of which are sharp pointed and the fourth stat; six grinders on each side of the lower jaw, the farthest back being slat, the next three pointed, and the other two having two points. This species sometimes varies in colour.

13. Polecat.-7. Mustela Putorius. 7.

Of a blackish yellow or chocolate colour, with white muzzle and ears. Faun. Suec. 16. Schreber, iii. 485. t. cxxxi.

Mustela, or Weasel, having its hair of a whitish grey colour at the roots and black at the tips, and with a white muzzle. Briss. quad. 186.—Yellowish-black Weasel, Mustela slavescente-nigricans, with a white muzzle, and yellowish collar. Syst. nat. ed. vi. 5. n. 3.—Putorius. Gesn. quad. 767. Aldrov. dig. 329. sig. p. 330. Jonst. quad. 154. t. 64. Raj. quad. 199.—Fitchet, or Polecat. Penn. hist. of quad. n. 195.—Putois, or Polecat. Sm. Buff. iv. 248. pl. lxxiv. Brit. 2001. i. 77:—Iltnis. Ridinger, wild. thier. t. 20.

Inhabits most parts of Europe, and in the temperate climates of Asiatic Russia.—Dwells in rocky, stoney, and gravelly places; about stables, barns, and dwelling-houses; in hollow trees, and in shallow burrows, of several yards long, terminating under the roots of large trees; sleeps mostly during the day, and goes about in the night in search of rabbits, rats, mice, moles, poultry, and other birds, in winter it feeds likewise on fish and frogs, and is very destructive to bee-hives. The head of the Polecat is thicker, the muzzle sharper, and the tail shorter, than in the Martin, from which animal it chiefly, however, differs in colour. In the deserts of Asiatic Russia, Polecats are sometimes found, especially in winter, of a white colour; they are likewise found beyond lake Baikal with white or yellowish rumps, bounded with black. It is exceedingly settid, like several other species of this genus, especially the Martin and Sable, giving out from the anus a most excessively fetid vapour, when frightened: The male is mostly of a yellowish tinge, having a whitish muzzle, while the muzzle of the female is commonly of a yellowish dirty white.

14. Ferret. - 8. Mustela Furo. 8.

Has remarkably red and fiery eyes.

354

355

Mustela, or Weasel, of a pale yellow colour. Erxleb. mam. 465. Schreber, iii. 488. t. cxxxiii.— Mustela viverra, Furo, or Ferret, the male having yellowish fur, intermixed with long hairs which are tipped with chesnut colour; the fur of the semale being of a whitish pale yellow colour. Briss. quad. 177.—Mustela sylvestris, Viverra, Furo, or Ictis. Aldrov. dig. 327. Jonst. quad. 154. Raj. quad. 198. Gesn. quad. 762—Ferret. Penn. hist. of quad. n. 198. Brit. 2001. i. 78. and ii. 498.— Furet, or Furet putois. Sm. Bust. iv. 252. pl. lxxv. and lxxvi.

Inhabits Africa.—From thence this animal was brought into Spain, in order to free that country from rabbits, and from Spain the rest of Europe has been supplied: It is domesticated, and is employed for hunting rabbits. It procreates twice a year, bringing forth from five to eight young at a birth, very rarely nine. In this country it is apt to degenerate, for which reason wareners cross the breed, procuring an intercourse between a semale Ferret and a male Polecat, by leaving the former, when in season, near the haunts of the latter: The produce is of a much darker colour than the Ferret, having a great resemblance to the Polecat. The Ferret is much smaller than the Polecat, the head and body being about source inches long, and the tail five; the head is narrower, the muzzle sharper, and the whole body more lengthened and thinner; the colour likewise differs considerably; the Ferret being usually of a very pale yellow, though that circumstance is variable, as in all domesticated animals. It is very fetid.

356 15. Sarmatian Weafel.—9. Mustela sarmatica. 15.

The upper part of the body is of a brownish black colour, spotted and striped irregularly with obscure yellow. Pallas, It. i. 453. and Spicel: zool. xiv. 79. t. iv. f. 1. Erxleb. mam. 460. Schreber, iii. 490. t. cxxxii.

Mustela Peregusna, or Weasel, called Peregusna, by the Russians; the head, and under parts of the body, being of a full black, the upper part of the body variegated with dark brown and yellow; the mouth and ears, and a band on the fore-head, white. Guldenstaedt, nov. com. Petrop. xiv. 441. 445. t. 10.—Mustela praecincta, Girdled Weasel, or Perewiaska. Rzaczynski, hist. nat. Polon. 328. and 222.—Vormela, or Wormlein. Gesn. quad. 768.—Sarınatian Weesel. Penn. hist. of quad. n. 196.

Inhabits Poland, especially Volhynia, in the deserts of Russia between the Volga and Tanais, the mountains of Caucasus, Georgia, and Bucharia.—This is a most voracious animal, which feeds on Marmots, rats, mice, jerboas, birds, and other small animals. It procreates in spring, and, after eight weeks, the semale, which has eight teats, brings forth from sour to eight young ones: It resembles the Polecat, but has a narrower head, a more lengthened body, a longer tail, and shorter hair, except on the seet and tail. It lives in holes, sometimes of its own burrowing, but mostly in those which have been made by other animals, and is exceedingly setid. The head and body are about sourteen inches, and the tail six inches in length.

16. Siberian Weasel.—10. Mustela sibirica. 16.

Of a deep yellow colour, having the foles of the feet exceedingly hairy.

Sibirian Weefel, called Kolonok by the Russians. Penn. hist. of quad. n. 197. Pallas, It. ii. 701. and Spicel. 2001. xiv. 89. t. iv. f. 2. Erxleb. mam. 471.

Inhabits

359

FERÆ.

Inhabits Siberia. - This animal is nearly of the fame fize with the last, being about twelve inches long from nofe to rump, and the tail fix: In manners it refembles the Sable, and in general appearance comes nearest to the Ermine, but has longer legs and a longer tail: The tail is very full of hair, and of a deeper colour than the rest of the body; the fur is in general long and loose; the face is black, the nostrils are furrounded with whitish, and spotted about the eyes; the throat is sometimes fpotted with white. The chief residence of this animal is from the Altaic mountains to the river Amur and lake Baikal: It lives mostly in the forests, but is so greedy that it will even venture into the huts of the peafants, to devour their meat and butter.

17. Ermine. - 11. Mustela Erminea. 10.

The tail is tipt with black. Faun. Suec. 17. Houttuyn, nat. iii. 206. t. 14. f. 5.

Mustela, or Weasel, which is white in winter, being in summer of a reddish colour on the upper parts of the body, the belly white, and the point of the tail black. Briss. quad. 176.

Of this species the two following varieties are distinguished by Dr Gmelin and other authors, though the difference feems chiefly to depend on climate and the feafon of the year; the Stoat of a pale tawny brown, or reddish yellow, colour in summer, becoming the white Ermine of winter in cold. countries.

a. Stoat .- M. Erminea aestiva.

Has a reddish tinge, and the tail is tipt with black. Schreber, iii. 496. t. cxxxvii. A.

Roselet. Sm. Buff. iv. 262. pl. lxxix.—Stoat. Penn. hist. of quad. n. 193. Arct. zool. n. 26. Brit. zool. i. 84.—Wiefel. Ridinger, jagdb. thier. t. 19.

B. White Ermine. -M. Erminea byberna.

Of a white colour, with a blackish tip to the tail. Aldrov. dig. 340. Schreber, iii. 496. t. cxxxvii. B.

Mustela candida, White Weasel, Animal ermineum, or Ermine. Raj. quad. 198.—Hermine, or Ermine. Sm. Buff. iv. 262. pl. lxxvii. f. 2. Penn. hift. of quad. n. 193. s. Brit. 2001. i. 84.— Hermelin. S. G. Gmelin, It. ii. 192: t. 23.

Inhabits the north of Europe, Afia, and America, and as far as the northern parts of Perfia and China.—Lives in heaps of stones, on the banks of rivers, in the hollows of trees, and particularly in forests, especially those of beach, preying on squirrels and lemmings. In manners and food it refembles the Common Weafel, but does not frequent houses; haunting chiefly in woods and hedges, especially fuch as border on brooks or rivulets. In general appearance it comes very near to the Martin, but is shorter in the body, being scarcely ten inches long from nose to rump, and the tail about five and a half; the hair is likewife shorter and less shining than in that animal. In the northern regions,, the fur of the Ermine becomes entirely white during winter, except the outer half of the tail, which: remains black. The skin is reckoned valuable, and fells in Siberia from two to three pounds Sterling a hundred; but in ancient times it was in much greater request than now. In summer, the upperpart of the body is of a pale tawny brown colour; the edges of the ears, and ends of the toes, are yellowiffi2

361

yellowish white; the throat, breast, and belly are white: In winter, in the more temperate regions, it is sometimes mottled with brown and white; but in more severe winters becomes entirely white; the farther north, and the more rigorous the climate, the white is the purer; those of Britain generally retain a yellowish tinge. In Persia and other more southern parts, it is brown the whole year.

18. Common Weasel.—12. Mustela vulgaris. 11.

The upper parts of the body are of a pale reddish brown, the lower parts white; the tail of the same colour with the body. Erxleb. mam. 471. Schreber, iii. 498. t. cxxxviii.

Mustela, or Weasel, reddish above and white below. Briss. quad. 175.—Common Weasel, Mustela vulgaris. Aldrov. dig. 307. Jonst. quad. 152. t. 64. Gesn. quad. 752.—Weasel, Weesel, Fitchet, Foumart, or Foulimart. Raj. quad. 195.—Whitret, or Whitred. Sibald, Scot. iii. 11.—Common Weesel. Sm. Buff. iv. 257. pl. lxxvii. f. 1. Penn. hist. of quad. n. 192. Arct. 200l. n. 25. Brit. 200l. i. 82. Do. illust. tab. ci.—Wiesel. Ridinger, wilde thier. t. 30.

B. Snow Weafel.—M. vulgaris nivalis.

Having a white fur, and fearcely any black hairs at the point of the tail. Syst. nat. ed. xii. 69. n. 11.

Mustela, or Weasel, having the tail of the same colour with the body, and appearing as if cut off in the middle. Hellenius, act. Stockh. 1785, trim. 3. n. 9. t. 1.—Sno-mus. Faun. Suec. 18.

Inhabits the temperate and northern parts of Europe, Afia, and America, and as far to the fouthwards as the northern provinces of Persia, and is said to be found even in Barbary.—In the more northern parts of Russia and Sweden, particularly in Westbothnia, it becomes white in winter; even in this state it is easily distinguishable from the Ermine, being a great deal smaller; the body and head not exceeding feven inches long, and the tail two inches and a half. It is very deftructive to chickens, birds, and young rabbits; eats fish, flesh, mice and rats, eggs, and mushrooms, but no other vegetable; it is very greedy, killing and carrying off great quantities of fmall animals at a time, above eighty field mice having been found in one Weafel's hole; it is very fetid, dirty in its habits, and drinks much; preys mostly by night, and is a great enemy to the tribe of mice, entering their burrows, and eating their whole bodies, only leaving their teeth undevoured: It is killed by cats with great difficulty; is very watchful, looking round with great caution, when running about; is faid to be feized with epileptic fits, or convultions, when much terrified; when tamed is very playful and cunning: In fpring the female brings forth fix, eight, or more young ones at a birth. The whole upper parts of the head and body are of a pale tawny, or reddish brown, colour; the under parts are entirely white, with a brown fpot, on each fide, beneath the corners of the mouth; and the ears are fmall and rounded: It is a very active animal, which in confinement is in perpetual agitation, always endeavouring to conceal itself; its motions confift mostly of unequal and precipitant leaps; it runs up the fides of walls, or up trees, with great facility, making at first a sudden bound several seet high, and feizes its prey in the fame manner; it destroys pigeons, sparrows, serpents, water-rats, moles, field-mice, quails, partridges, and every other finall animal it is able to mafter; is very fetid when irxitated or frightened, and feems not incommoded even by the most intolerable fmells, as there are inftances of the female making her neft and littering her young in exceffively putrid carcaffes. It may

FERÆ.

be tamed, and even trained to follow a person any where, by gentle treatment combined with proper chastisement.

362

19. Yellow Weafel .- Mustela melina.

The back and belly are of a pale cinereous yellow; the face, crown, legs, and tail, black.

White-cheeked Weefel. Penn. hift. of quad. n. 206.

The native country of this animal is unknown; it having been described by Mr Pennant from a living specimen in possession of an animal-merchant in the year 1774.—It is eighteen inches long from nose to rump; the tail is of the same length, and covered with long hair; the head is flat, with rounded ears, broad blunt nose, dusky coloured eyes, white cheeks and chin, and a rich yellow coloured throat.

363

20. Chilese Weasel.—13. Mustela Quiqui. 17.

The body is of a dark brown colour; having a wedge shaped muzzle.

Quiqui. Molina, hift. nat. Chil. lib. iv. 258.

Inhabits Chili.—Lives in burrows under ground; is of a ferocious disposition, and preys on murine animals.

Besides these species, Dr Gmelin mentions two, that he is uncertain how to arrange, as their characters are not sufficiently marked by the authors who treat of them: 1st, The Javan Weasel, or Mustela Javanica, of Seba, i. 77. t. 48. f. 4.; and, 2d, The Sardinian Weasel, or Boccamele of the Sardinians, Cetti, hist. nat. Sardin. i. t. 5. having the tail tipt with black, and a lengthened body; it follows mankind, lives on sless and vegetables, is fond of honey, and frequents the vineyards.

XVIII. B E A R.—17. U R S U S. 16.

Has fix cutting teeth in each jaw, which are hollowed on the infide; of these in the lower jaw, the two outermost on each side are longer than the rest, and are lobbed: Each jaw has one tusk on each side, with very small secondary teeth at their posterior bases, placed more inwards than the principles: In the upper jaw are sive, and in the lower jaw six grinders on each side, which are placed near the tusks. The tongue is smooth: The eyes are provided with a membrana nictitans: The snout is lengthened *.

The

^{*} Penis scatens offe curvato.

The animals of this genus have five toes on each foot, which are all contiguous to each other; the fole of the foot is long, and extends to the heel, giving a very firm tread; they are all capable of climbing; and some use their fore feet in the manner of hands.

1. Common Bear .- 1. Ursus Arctos. 1.

Of a blackish brown colour, with a very short tail. Erxleb. mam. 156.

Urfus niger, or Black Bear, with the tail of the fame colour. Briff. quad. 184. Gefn. quad. 14. Aldrov. dig. 117. Jonft. quad. 123. t. 55. Raj. quad. 171. Klein, quad. 82.—Black Bear. Penn. hift. of quad. n. 174.—Bear. Sm. Buff. v. 1. pl. c.—Baer. Ridinger, wilde thiere. t. 32.

Of this animal the following varieties are mentioned.

364 a. Black Bear.—U. Arctos niger.

Of a small size, and entirely black. Schreber, iii. 502. t. cxl. Arct. zool. n. 19.

365 \(\beta\). Brown Bear.—U. Arctos fuscus.

Of a brown or rufty colour. Schreber, iii. 502. t. cxxxix. Brown Bear of the Alps. Sm. Buff. v. 2. Arct. 2001. n. 20.

366 y. Grey Bear.—U. Arctos griseus.

Of a black colour, interspersed with white hairs. Arct. zool. n. 20. &

367 S. Variegated Bear .- U. Arctos variegatus.

The body is variegated with different colours.

368 e. White Bear.—U. Arctos albus.

The body is of a white colour.

White Land-Bear. Sm. Buff. v. 1. pl. ci. Arct. zool. n. 20. y.

Inhabits the north of Europe and Asia, and in Arabia, the Alps, Japan, and Ceylon. The Grey and Variegated varieties are found in Iceland; the Black and Brown kinds inhabit the marshy woods in the north of Europe and Asia; and the Brown Bear is likewise found in the Alps, the Pyrences, Caucassus, the Carpathian mountains, in Poland, Greece, Palestine, Egypt, Barbary, Ceylon, India, Japan, China, and Persia.—The Black Bear lives entirely on roots, berries, and other vegetable substances; besides these, the Brown devours various kinds of infects, especially ants and bees, with their combs, and feeds on the dead carcasses of sheep, goats, cattle, deer, and horses, which they even attack and destroy. In general they blow up the carcasses of such animals as they kill, and hide the remainder of what they cannot devour in the marshes; they commonly wash their food; and, when confined

FERÆ.

confined to their dens, during the winter, they fuck their paws. The Brown Bear procreates about the end of June, and the Black about the end of October, and both kinds, going about a hundred and twelve days, bring forth one or more at a birth. In the colder regions the Bears hybernate, or pass the winter in a state of torpidity, retiring into dens in the clefts of rocks, or in the hollows of old trees, where they remain wrapt up in warm foft beds of mofs, ufually from the middle of November to the breaking up of the winter frost, and abstain from food during all that period: They go into their winter retreats extremely fat, but, as they eat nothing during that feafon, they are excessively lean in fpring, and are commonly forced to come out by extreme hunger. They generally walk about with great gravity and composure, except when attacked or irritated; on which occasion they become very active, and, rifing upright on their hind legs, strike with both fore feet; they feldom attack mankind, except when irritated, and on these occasions the female obliges her young ones to climb up trees, if at hand, before the ventures to fight; they always defcend trees with their hinder parts foremost, of which they are very careful. Bears are not infested with sleas; and it is said that they are frightened by mufic: They ftand upright, naturally, on their hind legs, and fwim with great facility; in confequence of the membrana nictitans, their aspect is cruel, furly, and unpleasant: The thumb, or inner toe, on each foot is fmaller than the reft; the female has four dugs; the skull is lefs than that of the Lion, though the brain is larger; their tendons are in great request among the Laplanders for making thread; their flesh is reckoned delicious food, especially when fat; their gall is exceflively bitter, and is efteemed a valuable medicine in epileptic cases; and their grease or fat is much valued as a cofmetic, especially for causing the hair to grow.

2. Polar Bear .- 2. Ursus maritimus. 5.

Of a white colour, with a very fhort tail; and having a longish neck and head. Erxleb. mam. 160. Schreber, iii. 513. t. cxli.

Urfus marinus, or Sea Bear. Pallas, It. iii. 691. and Spic. zool. xiv. 1.--24. t. 1.—Urfus albus, or White Bear, having the tail of the fame colour. Briff. quad. 188.—Urfus maritimus albus, Urfus major arcticus, Larger Arctic Bear, or White Sea Bear. Martin, Spit. 73. t. O. f. C.—Urfus albus, or White Bear. Jonft. quad. 126. Muf. Worm. 319. Klein, quad. 82. Sm. Buff. viii. 216. pl. cclxxxix.—Polar Bear. Penn. hift. of quad. n. 175. pl. xxxiii. fig. 1. Arct. zool. n. 18.—Weiffe Baer. Ridinger, Baeren. t. 3. Ed. Col. Muf. Weir's Muf.

Inhabits within the Arctic circle, being found chiefly in Greenland, Spitzbergen, about Hudfon's Bay, Nova Zembla, and from the river Ob, in Siberia, to the Jenifei and Lena.—Polar Bears are found in great abundance on the ice-iflands of these northern seas, preying on sishes, seals, and cetaceous animals; they seldom penetrate into the inhabited countries farther south, yet are sometimes found in Newfoundland, Iceland, and the more interior parts of northern Russia and Siberia, into which they penetrate either from extreme necessity, or from having lost their way during sogs, and on these occasions they are sometimes necessitated to feed on vegetables. The semale goes six or seven months with young, and usually brings forth two cubs in the month of March. In manners and appearance this species resembles the former; which has, however, a larger head and a thicker muzzle. The skin of some individuals of this species is thirteen feet long; the head and neck are long, with short round ears, and the nose is tipt with black; the feet and legs are of vast size; the teeth are very large; the sur is long, soft, shaggy, and generally of a yellowish white colour: This species seems extended.

A z

371

372

tremely fond of human flesh, is very bold and fearless, attacking bands of armed men, and boarding ships; and even diggs up human carcasses. It has sometimes terrible combats with the Morse or Walrus, which is its greatest enemy. It is very impatient of heat, and when brought into the more temperate regions, must be frequently refreshed by means of cold water thrown over the body. The slesh is very white, and is reckoned to resemble mutton.

3. American Bear .- 3. Ursus americanus. 6.

Of a black colour, the throat and cheeks being of a rusty brown colour. Pallas, Spicel. zool. xiv. 6. n. 26. Penn. hift. of quad. n. 174. 8.

Inhabits the whole of America, except Chili and Patagonia, and is found in Kamtschatka.—This species rejects animal food, though pressed by hunger, confining itself entirely to vegetables, and is remarkably greedy of Maize and Potatoes; Dr Gmelin says that it feeds on sish. The head is more lengthened than in the European Bear, the ears are longer, the hair is more smooth and glossy, blacker and softer; the whole body is much smaller; the nose is longer and more pointed, and of a yellowish or rusty brown colour. It is very cowardly, and never attacks mankind unless when provoked, or in defence of its young; it sometimes bites the natives of Kamtschatka, when asleep, but never devours them.

4. Sand Bear.—Ursus tetradactylus.

Has only four toes on each foot. Bewick, Gen hift. of quad. ed. 1791, p. 257. and fig.

This animal is rather lefs than the Common Badger: It is almost destitute of hair, extremely fenfible of cold, burrows in the ground, and is of a yellowish white colour: The eyes are small; the legs are short; the feet are armed with sharp white claws; and the tail is considerably longer in proportion than in the three former species, which have only a stump in place of a tail. The place of this animal is uncertain: It is engraven by the ingenious Mr Bewick of Newcastle, on wood, from a drawing of a specimen in the Tower of London.

5. Common Badger. - 4. Ursus Meles. 2.

Has a short tail of the same colour with the body, which is dark ash coloured on the upper parts, and black below; the sace is whitish, with a pyramidal longitudinal black band including the ears and eyes. Faun. Suec. 20. Schreber, iii. 516. t. cxlii.

Meles, or Badger, having very long claws on the fore paws. Syst. nat. ed. vi. 6.—Meles, or Badger, covered with a mixed black and dirty whitish fur, having the head marked with alternate white and black stripes. Brist. quad. 183.—Meles, Taxus, Tassus, Berellus, Jazwiec, Borsuk. Rzaczinski, Polon. 233.—Grey Coati, Short-tailed Coati, Taxus, Meles, Tax. Klein, quad. 73.—Badger, Blaireau, or Taisson. Sm. Buff. iv. 226. pl. lxvii.—Common Badger. Penn. hist. of quad. n. 179. Brit. zool. i. 64. D°. illust. tab. lii. Weir's Mus.—Tachs. Ridinger, jagd. thier. t. 17. Its Anatomy. E. N. C. d. 2. a. 5. obs. 32. and d. 3. a. 3. obs. 163.

The two following varieties are mentioned by authors.

Bear.

FERÆ.

373

B. White Badger. - U. Meles alba.

Of a white colour on the upper parts, and yellowish white below. Briff, quad. 185.

374

y. Spotted Badger, -U. Meles maculata.

Of a white colour, marked with reddiff yellow and dusky spots. Ridinger, allerl. thier. t. 24.

Inhabits Europe and the north of Afia, as far as the northern provinces of Perfia and China, and in Japan.—The White Badger is faid by M. Briffon to have been brought from New York; it has very finall eyes, and very fhort legs, and is only one foot nine inches long, with a tail of nine inches: This variety, or species, is by Mr Bewick supposed to be the same animal with the Sand Bear, already -defcribed. The fpotted variety is very rare, nor is it mentioned from what country it was brought. The Badger lives in woody places, in the clefts of rocks, or among frones, and in burrows or holes, of its own digging, but from which he is often driven by the Fox, which is not fo well adapted for burrowing in the earth. It is very cleanly, and always allots a particular place for its excrement: The male and female live together in pairs, propagate in November, or the beginning of December, and, after nine weeks, the female brings forth from three to five young ones at a birth: It lives on infects, eggs, roots, fruits, the leaves of Secale, Lathyrus, and other vegetables, and on rabbits; keeps in its hole all day, and only goes abroad during night: It is very indolent, and fleeps much, yet grows prodigiously fat. During the severe weather of winter, it remains in a torpid state in its hole, sleeping on a commodious bed made of dried grafs. The Badger is furnished with a transverse orifice, about an inch deep, between the tail and anus, which discharges a fetid white matter, which the animal is fond of fucking; the fore-teeth are fix in each jaw, equal, fimple, and parallel to each other; the eyes are provided with a white membrana nicitians, capable of covering the whole ball; the female has fix teats, two on the breaft, and four on the belly; the feet are short, and are furnished with five claws, those on the fore feet being very long and straight; The Common Badger is about two feet and a half in length, and the tail fix inches; it is of a very clumfy make, weighing from fifteen to thirtyfour pounds; it runs very flowly, defends itself against dogs with great vigour, biting very severely, and being very tenacious of life. It may be tamed, if caught young; and the flesh, when well fed, makes excellent hams and bacon.

375

6. American Badger .- 5. Ursus labradorius. 7.

The tail is covered with long dirty yellow hairs, tipped with white, having the end dusky; the throat, breast, and belly, are white; the fore feet have only four toes. Schreber, iii. 520. t. cxlii. B.

American Badger. Penn. hift. of quad. n. 179. 3. Arct. 2001. n. 23.—Carkajou. Sm. Euff. vii. 285. pl. 2. ccxl.

Inhabits Labradore, and the country about Hudson's Bay, in North America.—This animal, which has a very frong refemblance to the Common or European Badger, is fomewhat fmaller, and the hair is longer, more foft, and filky; the ears are fhort, and of a white colour edged with black; the head is white, with a black line on each fide running from the fore-head, close to the inner corner of

A a 2

the eye, down to the nofe; the hair on the back is four or five inches long, bright brown for the under half, then bright yellow, above that black, and white at the tips; the legs are fhort, and of a dark brown colour, having five claws behind and only four before, which are confiderably longer and larger; but the want of the fifth claw on the fore feet, being described from a dried specimen, may have been owing to accident. It is uncertain whether this animal possesses the orifice under the tail. In each jaw there are fix fore-teeth, one tusk on each side of each jaw, and four grinders on each side in both; in all thirty-two.

376

7. Indian Badger .- Ursus indicus.

Has a black face; the crown of the head and upper parts of the body are white, and the lower parts black. Penn. hift. of quad. n. 180.

Inhabits India.—This fpecies is described, by Mr Pennant, from a specimen in the collection of Mr John Hunter, Surgeon General to the Army. It is playful, lively, and good natured; seeds on slesh; sleeps rolled up; and climbs with great readiness: The head is small, with a pointed nose, and a prominent oval rim instead of ears; the nose and face, to a little beyond the eyes, are black; the crown of the head, upper part of the neck, back, and upper part of the tail, are white, inclining togrey; the legs, thighs, breast, belly, sides, and under part of the tail, are black; it has five toes on each foot, the inner one smaller than the rest, all armed with very long straight claws; the hair is short and smooth; the head and body are about two feet long; the tail four inches. It resuses any commerce with the Common Badger. No notice is taken of the orifice near the tail.

377

8. Racoon.—6 Ursus Lotor. 3.

The tail is furrounded with different coloured rings; and a black band crosses the face, including both eyes. Schreber, iii. 521. t. exliii.

Ursus cauda elongata, or Long-tailed Bear. Act. Stock. 1747, t. 9. f. 1. Houttuyn, nat. ii. 237; t. 15. f. 1. Briff. quad. 189.—Mapach. Fernand. anim. ii. 1. Nieremb. hift. nat. 175. Jonst. quad. t. 74.—Coati. Raj. quad. 179. Catefb. Carol. 121. Sloan, Jamaic. ii. 329. Worm. Mus. 319. Major, Mosh. 30.—Racoon. Kalm, It. ii. 228. 327. and iii. 24. Lawson, Carol. 121. Penn. hift. of quad. n. 178. Arct. 2001. n. 22. Sm. Bust. v. 46. pl. ciii.—Wilde ziberthartige Kaze. Muller. del. nat. ii. 99. t. K. I. f. 2.

Inhabits America, especially the northern division, and the West India islands.—The Racoon lives in holes of trees, bringing forth two or three young ones in the month of May: It eats eggs, poultry, and shell-fish; washes its food in water, and uses the fore paws to carry it to the mouth; it has very delicate sensations of simell and touch; and a most tenacious memory, especially of injuries; it sleeps commonly from midnight till mid-day; and is faid to have an aversion at hogs bristles; it climbs with great facility. The body is cloathed with hair of a grey, or ash colour, at the roots, white in the middle, and tipt with black, which gives the fur the appearance of being shaded with dusky transverse waved rings; the head is of a dusky colour, with a sharp black pointed nose, a black band across the face surrounding both eyes, and crossed with a dusky line from the nose to the fore-head; the tail is very bushy, and is surrounded with black rings*; is easily tamed, active, good natured,

^{*} Penis offe incurvato scatet.

natured, and fportive, but unlucky and inquifitive like a Monkey; fits up to eat on the hind feet, which are very long, ufing the heel to reft on; uses the fore paws like hands, with which it opens oysters, and is sometimes caught between the shells, and held till the tide flows and drowns it; is very fond of sweet things, and even of strong liquors, with which it sometimes gets very drunk.

378

B. White Racoon .- U. Lotor melinus.

Of a cream colour or yellowish white. Penn. hist. of quad. p. 265. Lever. Mus.

The place and history of this animal is unknown. It is barely mentioned by Mr Pennant, as refembling the Common Racoon in every thing but colour.

3.79

9. Wolverene. - 7. Ursus luscus. 4.

Has a long tail; the head, back, and belly, are of a reddiff brown; the face black; and the fides of a yellowish brown colour.

Urfus caftaneus, or Chefnut Bear, the tail being of a uniform colour with the body; the fnout and legs black. Briff. quad. 188. — Quickhatch, Carcajou, or Wolverene. Catefby, Carol. app. xxx. Dobbs, Hudfon's Bay, 40. Ellis, Hudfon's Bay, 42. Edw. av. ii. 103. t. 103. Penn. hift. of quad. n. 176. pl. xxxiii. f. 2. Arct. zool. n. 21.

Inhabits the country about Hudson's Bay, and in Canada.—Resembles the Wolf in fize, and the Glutton in the figure of its head; the hair is long and harsh; the tail is of a chesnut colour, somewhat darker at the extremity; it has only four toes before and five on the hind feet; the muzzle, to half way between the eyes and ears, is black, and conically pointed; the ears are flort, rounded; almost hid in the hair, and edged with white; the fur on the head, back, and belly, are reddish, with black tips, fo as to appear almost black; the fides are yellowish brown, and a band of this colour croffes the back near the tail; there are some whitish spots on the throat and breast; the legs are very ftrong, thick, fhort, and black, having five toes on each foot, not deeply divided, armed with ftrong fharp claws, which are white at the ends; the foles of the feet are thickly covered with hair, and reach as far as the heel, on which the animal refts in walking; the back is highly arched; the tail is covered with long coarse hairs, near fix inches in length, of the same colour with those on the body; the length of the head and body is two feet four inches; and of the ftump of the tail feven inches, but the hair reaches fix inches farther. The colour of this animal varies according to the feafon of the year; it is exceedingly voracious, and being flow of foot, has to take its prey by furprife; it watches for Beavers, which it takes as they come from their houses, and sometimes forces its way into their habitations; it is very fierce, and is even a terror to Wolves and Bears; it burrows under ground; is very fetid; fometimes lurks on trees, and drops down on deer passing below, fastening on them till they are quite exhaufted ...

380

10. Glutton. - 8. Ursus Gulo. 8.

The body and tail are of a glossy black, or dark brown colour, with a tawny line all down the middle of the back. Schreber, iii. 525. t. exliv.

38 I

Mustela ruso-susca, or Reddish-brown Weasel, with a black list along the middle of the back. Syst. Nat. ed. xii. 67. Faun. Suec. 14. Houtt. nat. ii. 189. t. 14. f. 4. Gunner, act. Nidros. iii. 123. t. 3. f. 5.—Gulo. Georgi, it. 160. Pallas, Spicil. zool. xiv. 25. t. 2. Gesn. quad. 554. Aldrov. dig. 178. Jonst. quad. 131. t. 57. Scheffer, Lap. 339. Rzacynsk. Pol. 218. Klein, quad. 83. t. 5. Zimmermann, Spec. zool. geogr. 309.—Vielsrass, Rossomaka, Jars, Jærven, Fieldsross. Genberg, act. Stockh. 1773. 222. t. 7. 8. Bell's trav. i. 235. Pontopid. Norw. ii. 22.—Glutton. Penn. hist. of quad. n. 177. Sm. Buss. vii. 274. pl. ccxl.—The Anatomy. Barthol. Cent. 4. obs. 30.

Inhabits America, Afia, and Europe, in the more northern parts; is rarely found in Poland and Courland; and very rarely in Germany.—Dwells chiefly in the mountains, and in large forests; procreates in January, and brings forth one, two, or three young ones in the month of May; the female retiring for this purpose into the closest recesses of the woods: It is a cunning and voracious animal, and climbs with great facility; feeds on hares, murine quadrupeds, rein-deer, birds, dead carcaffes of all kinds; even on fish, cheefe, and almost every kind of eatable; it never attacks mankind, unlefs forced in its own defence; it defends itself against dogs by its intolcrable fetor, which however becomes less unsupportable after death. When young it may be tamed; and the fur is reckoned valuable. It is larger than the Badger, and thinner in the body; which is fometimes three feet eight inches in length from the nofe to the rump, and nineteen inches high; the tail is fix inches long; the legs are very thick, short, strong, and hairy, having five toes on each foot, some authors say only four; the tail is shorter than the hind legs, and very hairy; the female has fix teats; there are fix foreteeth in each jaw, the middle four in the upper jaw being equal in fize, and as if lobed on both fides; the outer one on each fide is longer, and stronger than the rest, its fore fide rises into a conical point, while the back half of the tooth is lobed; the lower fore-teeth are blunted, as if cut through the middle, two alternately are placed within the general line, those in the middle are rather smaller, and the outer ones are larger and thicker than the reft; the tufks are thick, conical, very ftrong, and fomewhat blunt, those of the upper jaw being larger than those below, standing at a distance from the foreteeth, and are furrowed on the outer furface; the lower tusks are placed near the fore-teeth and grinders; there are five grinders on each fide above, and fix below, all knobbed, the first and last being very finall: The head is round, with a thick blunt nofe, and fhort rounded ears, a little pointed at the tips; the back is firaight, and has a tawny lift along the middle of its whole length; the tail is short and very full of hair; the whole body is of a fine gloffy black, watered or damasked like filk, fometimes varying to brown.

β. White Glutton -U. Gulo albus.

Of a white colour, fometimes tinged with yellow. Penn. hist. of quad. p. 293.

This variety is fometimes found in Kamtschatka, where the skins are very highly esteemed.

XIX. OPOSSUM.—18. DIDELPHIS. 17.

The fore-teeth are very small and rounded; of these there are ten in the upper jaw, with two intermediate ones longer than

382.

383

than the rest; in the lower jaw are eight, with two intermediate broader than the rest, and very short: The tusks are long; the grinders knobbed: The tongue is furnished with a fringe of pointed papillae. In most species the semale has a pouch or false belly, within which the teats are placed. In general, the tail is long, slender, and naked.

This genus is chiefly confined to America, at least most of the known species, till lately, were of that country; none have hitherto been discovered in Europe, or Asia, except one species; and lately some species have been found in the vast island of New Holland. They mostly dwell in burrows, or holes, in woody places, of their own digging, and frequent trees, which they climb with great facility, often by the help of their tails, which, in many species, are prehensile; their gait is generally rather slow; they feed on birds, particularly poultry, infects, worms, and vegetables; for the most part, their feet are completely divided into five toes, several of them having a distinct thumb, on the fore paws, at some distance from the other toes: The male penis is mostly very much concealed, and has a divided glans; in many species the semales are provided with a kind of purse, or salse belly; in some there are two, or even three, distinct cavities, which can be shut or opened at pleasure, being provided with two bones for that purpose, and in this the teats are situated, and the young ones are kept there after birth as in a nest, hanging perpetually to the nipples, till they grow large enough to run about; even the males of these species are said to be furnished with this singular provision.

1. Amboina Opossium .- 1. Didelphis marsupialis. 1.

Has eight teats within the pouch. Schreber, iii. 536. t. exlv.

Amboina Philander, of a blackish red brown colour on the back, the belly of a pale yellowish ash colour, and having a dusky brown spot over each eye. Brist. quad. 201.—Philander orientalis maximus, or Largest Oriental Philander. Seba, Mus. i. 64. t. 39. Klein, quad. 59.—Greater Molucca Opossum. Penn. hist. of quad. n. 182. «...

Inhabits Amboina, according to Pennant, or Surinam, according to Gmelin.—This fpecies is about the fize of a large Cat or Martin: The noftrils are half-moon fhaped, and perpendicular; the muzzle is furnished with five rows of whiskers; at each angle of the mouth are eight long briftles, and five under the throat; the ears are oval, loose, of a black colour, and tipt with white; the back grinders are knobbed, and the fore ones fingle pointed, the foremost being very small; the lower parts of the legs are black and very smooth; the tail is as long as the body.

2. Brasilian Opossum.—2. Didelphis Philander. 2.

Has four teats; the tail is hairy at the base, and the ears are pendulous. Schreber, iii. 541.t. cxlvii.

Brasilian Philander, having the fur of a whitish colour at the roots and blackish at the tips. Briss. quad. 210.—Tlaquazin, or Tai-ibi of the Brasilians. Seba, Mus. i. 57. t. 36. f. 4.—Faras, or Ravale. Gumilla, Orenoqu. iii. 238.

Inhabits

Inhabits South America.—The body and head are about nine inches in length, and the tail four-teen; the muzzle has fix rows of whifkers; the orbits are furrounded with a brownish circle; the legs are whitish; and the naked part of the tail is whitish, with brown spots.

384

3. Sarigue.-3. Didelphis Opossum. 3.

The tail is hairy near the base; over each eye is an oblong white spot. Schreber, iii. 537. t. cxlvi. A. B.

Philander spadiceus, of a dark chesnut colour on the back, the belly yellow, and having a yellowish spot over each eye. Briss. quad. 207. Seba, Mus. i. 56. 57. t. 36. f. 1. 2. 3.—Vulpes major putoria, Larger stinking Fox, or Acuary, having a round naked tail. Barrere, Fr. equin. 166.—Semivulpa. Gesn. quad. 870. Aldrov. dig. 223.—Tlaquatzin. Hernand. Mex. 330.—Tai-ibi, of the Brassilians. Marcgr. Brass. 223.—Carigueia. Marcgr. Brass. 222. Pis. Brass. 323. Tyson, Phil. Transs. n. 239. p. 105. Cowper, Phil. Transs. n. 290. p. 1565.—Opossum. Catesby, Carol. 120.—Sarigue, or Virginian Opossum. Sm. Buss. v. 404. pl. clviii. clix.—Mollucca Opossum. Penn. hist. of quad. n. 182.

Inhabits the warm and temperate parts of America.—Has long, oval, naked ears; a wide mouth; an oblong white fpot over each eye; the lower fide of the upper jaw, the throat, and belly, are of a whitish ash colour; the hair on the rest of the body is of a whitish ash colour, tipt with tawny, and darkest on the back; the tail is as long as the body, and naked, except near the base, where it is covered with hair; the claws are hooked; there are ten fore-teeth in the upper, and eight in the lower jaw: The head and body are about ten inches long.

385

4. Molucca Opossum.—3. s. Didelphis molucca. 3. s.

The back is of a dark brown colour, the belly yellowish, and there is a yellow spot over each eye. Briff quad. 209.

Inhabits Ceylon, the Philippine and Molucca islands.—In Dr Gmelin's edition of the Systema Naturae, this is made a variety of the preceding species; but the remarkable difference of country forbids that idea: There is a considerable confusion among naturalists, respecting the various species of this genus, to remedy which every exertion has been made, but not with entire success; the following descriptive account from the Systema Naturae is there meant as referring to both this and the preceding article.

By means of the tail, which is prehenfile, these animals climb trees, and spring from tree to tree with great facility; but, in other respects, they are very slow of soot; they may be tamed; the semale brings four or sive young ones at a birth, which she keeps with great care in her pouch, or false belly; the voice resembles the grunting of a hog; the length of the head and body is about a soot; the head is longer and sharper than in the Brasilian Opossum, but shorter than that of the Amboina species; the ears are short and rounded; the semale has sive or seven teats; the tail is shorter than the body, and is hairy at the base, the naked part being whitish.

rent

386

5. Virginian Opossum. - Didelphis virginiana.

The tail is shorter than the body, and hairy at the base, the rest is naked and prehensile; the face is white, with a dusky space round the eyes; the body is thick, clumsy, and blackish on the back; the sides dusky; the belly dirty white; the legs and thighs Penn. hift. of quad. n. 181. pl. xxxvi. Arct. zool n. 24.

Inhabits Virginia, Louifiana, Mexico, Brafil, and Peru.—Mr Pennant deferibes and figures this animal from a specimen in the Leverian Museum: He supposes it to be the same with the Didelphis marfupialis of Linnaeus, but, at the fame time, expresses his doubt of the identity by a mark of interrogation: Dr Gmelin, on the contrary, quotes this species from Mr Pennant as synonimous with the Didelphis Opossum, or Sarigue of Buston and of this edition; there is not, however, any resemblance in the three descriptions, and I have therefore ventured to disjoin them .- T.

From the tip of the nose to the tail this animal is twenty inches long, and the tail twelve; the nose is long, and fharp pointed, having long friff hairs on each fide; the cars are large, rounded, naked, very thin, of a black colour, and edged with white; the eyes are fmall, black, lively, and furrounded with a dusky space; the face is covered with foft, short, white hair; the neck is very short, thick, and of a dirty yellow colour at the fides; the hind part of the neck, and the back, are covered with long, foft, uneven hairs, which are yellowish white at the bottom, black in the middle, and whitish at the ends; the hair on the fides is of the fame length, mixed dirty white and dufky colours; the belly is covered with foft, woolly, dirty white hair; the feet are dufky, with white claws, having five toes on each; the great toes on the hind feet are distinct, and like a thumb; the base of the tail is hairy; the reft is prehenfile, and covered with fmall fcales, like a fnake, the first half being black, and the rest white; the body is round, very thick and clumfy, with short black legs; the semale has a pouch or false belly in which the teats are placed, and in which the young take shelter immediately after birth, fastening so closely to the teats that they can hardly be separated; they are then very fmall, naked, blind, and resemble foetuses; when older, they acquire hair, get their sight, and venture out of the pouch, but return on the leaft alarm. This animal is very fetid, yet the slesh, even of the old ones, is very good, and eats like that of a fucking pig.

387

6. Cayopollin .- 4. Didelphis Cayopollin. 6.

The tail is longer than the body; the belly has no pouch; the eyes are furrounded with a flight black ring. Schreber, iii. 544. t. exlviii.

African Philander, of a dark chefinit colour on the back, the belly of a yellowish dirty white, and the tail marked with dark chefnut spots. Brist quad. 212.—Cayopollin, with a prehensile tail. Fernand. nov. hisp. 10 .- Male African Mouse, named Kayopolin. Seba, Mus. i. 49. t. 31. f. 3.—Cayopollin, or Mexican Opossum. Sm. Buff. v. 438. pl. cxlii. Penn. hift. of quad. n. 186.— Cayopollin, f. Animal caudimanum. Nieremb. hift. nat. 158.

Inhabits the mountains of New Spain.-The muzzle is thicker, and the cars shorter and narrower, than those of the Didelphis Oposlum, or Sarigue, already described, or of the Didelphis murina, which follows; the body is from fix to nine inches long; the tail is longer, being hairy at its origin, and the rest naked, but marked with dark chesnut coloured spots on a whitish ground. Mr Pennant describes this species from a specimen in the Leverian Museum, having large, angular, and transpa-Vol. I. Bb

389

390

rent ears; very large whitkers; the face of a dirty white, with a dark line down the middle; the hair on the head, and upper part of the body, afh coloured at the roots, and deep tawny at the tips; the regs and feet dufky, with white claws; the belly of a dull cinereous colour; the tail long and this righ, varied with brown and yellow, hairy for the first inch, and the rest naked. It lives in trees, in which it brings forth its young; these cling closely to the parent when frightened. Neither Mr Pennant nor the Count de Buffon say whether this species has or wants the purse on the belly.

7. Murine Opossum. - 5. Didelphis murina. 4.

Instead of a false belly, the female has a fold on each side, including the teats. Penn. hist. of quad. n. 185.

Mouse-like Opossum, or Didelphis murina, having six teats, and the tail hairy at the base. Syst. nat. ed. Gmelin, i. 107. n. 4. Amoen. ac. i. 279. Mus. ad. Fr. ii. 8. Schreber, iii. 545. t. cxlix.—American Philander, having the back of a dark chesnut colour, and the belly of a pale yellow. Briss. quad. 211.—Philander, having the teats on the abdomen not included in a purse; with a very long, round, naked tail, and a long shaped body. Gronov. 200ph. i. 9. n. 33.—Scalopes. Seb. Mus. i. 48. t. 31. f. 1. 2.—Marmose, or Murine Opossum. Sm. Buss. v. 435. pl. cxl. cxli. Penn. hist. of quad. n. 185.

Inhabits the hotter parts of America.—The length of the head and body is fix inches and a half, and the tail is about the fame; the muzzle has fix rows of rufty brown whifkers, except the lowest row which is white, all shorter than the head; the back is arched, and it and the top of the head are of a tawny colour; the belly is yellowish white; the ears are long, broad, naked, thin, and rounded at the ends; the feet have each five toes, with distinct thumbs, all furnished with very sharp claws: The female has fourteen teats, according to the Count de Buffon from inspection, to which the young, sometimes ten at a birth, attach themselves immediately when brought forth; these are at first not bigger than small beans, and never quit their hold till they have acquired considerable size and strength. This species burrows in the ground, climbs trees, sixes itself to the branches by the affistance of its prehensile tail, and darts on birds and small animals; it likewise eats fruits, grain, and roots, but prefers fish and crabs. It is very slow, and stupid in all its actions.

8. Guiana Opossum. - Didelphis guianensis.

Of a brown colour on the upper parts, and white beneath. Penn. hist. of quad. p. 308.

Inhabits Guiana.—This animal is barely mentioned by Mr Pennant as a variety of the preceding; with which, therefore, we must prefume that it agrees in appearance.

9. Surinam Opossum .- 6. Didelphis dorsigera. 5.

Has short blunt nails on all the thumbs, and on the fingers of the fore paws; those on the hind toes are small and sharp pointed.

Didelphis dorsigera, having the tail hairy at its base, and longer than the body; the singers of the fore paws being unarmed. Syst. nat. ed. Gmel. p. 107. n. 5. Schreber, iii. 546. t. cl.—Glis sylvestris.

tris. Merian, infect. furin. 66. t. 66.—Glis fylvestris, Mus fylvestris, f. Sorex fylvestris, from America. Seba, Mus. i. 49. t. 31. f. 4. 5. ii. 90. t. 84. f. 4.—Surinam Philander, of a tawny red on the back, and whitish yellow on the belly. Briss. quad. 212.—Surinam Opossum, or Merian Opossum. Sm. Buss. viii. 267. Penn. hist. of quad. n. 191.

Inhabits Surinam.—This fpecies is about ten inches long, from the nose to the rump, the tail being rather longer; it burrows in the ground; the female brings five or fix young at a birth, which adhere to their parent when threatened with any danger, by twifting their prehenfile tails round hers, and riding on her back: The ears are long, sharp pointed, and naked; the head and upper parts of the body are of a yellowish brown, or reddish yellow colour, which becomes bright red on the back; the front, muzzle, belly, and feet, are whitish yellow; the orbits are surrounded with a dusky ring; the tail is naked and of a pale red, that of the male having dusky red spots; the feet resemble those of the Ape, having four singers and a thumb on all the four paws: The young ones grunt like pigs,

10. Cayenne Opossum. - 7. Didelphis cancrivora. 7.

The upper jaw, on each fide, is armed with a crooked canine tooth which reaches beyond the under jaw.

Didelphis cancrivora, or Crab-eater Opossum, having a scaly and almost naked tail, nearly as long as the body; and a distinct thumb, or great toe, on the hind foot armed with a flat nail. Syst. nat. ed. Gmel. p. 108. n. 7.— Crab-eater, Crab-dog, or Crabier. Sm. Buff. viii. 279. pl. ccxciii.— Koupara, Canis sylvestris major, or Larger wild Dog, commonly called Cancross, or Crabier. Barrere, Fr. equin. 149.—Cayenne Opossum. Penn. hist. of quad. n. 187.

Inhabits Cayenne.—This animal is about eighteen inches long from nofe to rump, and fix and a half inches high; the tail is prehenfile, greyish, fcaly, naked, tapering, and about fixteen inches in length; the head is long, with a pointed muzzle, and fhort, erect, fomewhat pointed ears; the fur is woolly, of a yellowish white on the fides and belly, deeper yellow on the shoulders, thighs, neck, breast, and head, and mixed with brown in some places; this woolly fur is mixed with long stiff hairs, near three inches in length, which are of a dirty white colour at the roots, and dark brown, almost black, at their extremities; these increase in number on the thighs, and on the ridge of the back, which is totally covered with them, fo as to form a kind of mane from the middle of the back to the origin of the tail; the legs and feet are of a blackish brown colour, having four crooked toes and a straight thumb on each foot, the great toes or thumbs being thick, broad, and distant; the nails of the thumbs and great toes are flat, but the other toes are armed with short crooked claws. This species is very common in Cayenne, frequenting the Savannahs and other marshy places, and climbs trees with great dexterity: It lives chiefly on crabs, and is always fat: When it cannot reach the crabs in their holes with its paws, it introduces the prehenfile tail to hook them out, and in this attempt it often gets pinched, on which occasion it emits a cry, somewhat like that of mankind, which is heard at a great diftance; but its ordinary voice is a kind of grunt: The female brings four or five young ones at a litter, and, having no pouch, deposits them in the hollows of old trees. It may be tamed with great ease, and fed, like Dogs and Cats, with all kinds of victuals: Its flesh resembles that of a Hare, and is eaten by the natives of South America.

B b 2

393

394

11. New-Holland Opossum. - Didelphis caudivolvula.

The tail is taper, hairy and prehenfile at the end. Penn. hist. of quad. n. 188. Cook's voy. iii. 586.

Inhabits New-Holland, near Endeavour river.—The head and body are about thirteen inches long, being covered on the upper part and the fides with long, foft, gloffy hairs, of a dark cinereous colour at the roots, and rufty brown at the ends; the tale is taper, and of the fame length with the head and body; two-thirds of its length is covered with fhort brown hair, the extremity being white, and naked underneath; the paws are furnished with thumbs having flat nails, and the toes have fhort claws: This species lodges among the long grafs, but is little known.

In Governor Phillips voyage to New-South-Wales, p. 148, is a description of this animal, or one very nearly allied to it, in the possession of Mr John Hunter of London, sent from New-South-Wales: The countenance resembles that of a Fox, but the manners approach to those of the Squirrel; when disposed to sleep it coils in a round form, but when eating, or on the watch, it sits erect, using its fore feet to feed with, or to hold any thing; when irritated it utters a loud harsh noise; and only feeds on vegetables: The fur is long, close, thick, and of a mixed brown and greyish on the back; the belly and neck are yellowish white; the head and body measure eighteen inches, and the tail twelve; The muzzle is pointed and garnished with long whiskers; the fore paws have five toes armed with claws; the hind paws three toes with claws, and a distinct thumb or great toe; in each jaw there are two fore-teeth; the testicles are large and pendulous: The female has a pouch on the belly.

12. Short-tailed Opossum. - 8. Didelphis brachyura. 8.

Of a red colour, with a short hairy tail, naked ears, and no pouch. Schreber, iii. 548. t. cli. Pallas, act. Petrop. 1780, ii. 235. t. v.

Philander obscure-rusus, of a dark red colour on the back, and tawny on the belly, with a short thick tail. Briss. quad. 213.—Philander, without any pouch over the teats, and having a short, thick, hairy tail. Gronov. zooph. i. 9. n. 35.—Mus sylvestris femina, from America. Seba, Mus. i. 50. t. 31. f. 6.—Short-tailed Opossum. Penn. hist. of quad. n. 189.

Inhabits South America.—This animal is from three to five and a half inches long; the tail is hardly half that length, and is covered with hair, thick at the base, and gradually lessens to the extremity. The fur is exceedingly soft and glossy, of a dull red colour on the upper parts, and paler red or tawny on the belly, with a beautiful red streak along the sides of the head and body. This species lives in the woods; the semale, which has no false belly, brings from nine to twelve young at a birth, which adhere to the teats as soon as born. The head resembles that of the Didelphis Cayopollin; the snout is thorter than that of the Didelphis Opossum, and thicker than that of the Didelphis murina, with which species it agrees in the general form of the body, in the want of the pouch, and in the male penis being placed backwards below the scrotum.

13. Oriental Opossum.—9. Didelphis orientalis. 9.

The tail is longer than the body, hairy from its base to the middle, the rest naked and prehensile; the two middle toes of the hind feet are united. Pallas, miscel. 2001. 59-Erxleb. man. 79. Schreber, iii. 550. t. clii.

Phalanger.

Phalanger. Sm. Buff. vii. 174. pl. cexvii. eexviii. Penn. hift. of quad. n. 190.—Coefeoes. Valent. Ind. iii. 272.

Inhabits the East Indian islands, and perhaps likewise in New Holland.—This animal resembles the Squirrel in its voice and mode of feeding, and is extremely timid: The female has two or four teats, and brings as many young at a birth, having no pouch: The head is very thick, with a blunt nose, and short, hairy ears; the legs are very short, and the toes have long, crooked, strong claws; the two first toes of the hind feet are attached together, and the hind paws have distinct thumbs with slat nails; in the male the upper parts of the body are of a reddish brown, mixed with ash colour, with a black line down the hind part of the head and middle of the back; all the hinder parts of the body being very dark coloured; in the female, the fur is much marked with white; in both, the belly, throat, legs, and part of the tail, are of a dirty yellowish white: In the upper jaw there are eight cutting teeth, and only two in the lower.

395

14. Javan Opossum.—10. Didelphis Brunii. 10.

The hind legs are much longer than the fore, and have only three toes on each; the tail is short and naked. Schreber, iii. 551. t. cliii. Pallas, act. Petrop. ii. 229. t. ix.

Javan Opossum. Penn. hist. of quad. n. 183.—Filander. Le Brun, voy. to E. Ind. Eng. edit. ii. 101. t. ccxiii.

Inhabits the island of Java.—This animal is about the fize of a Hare, with a narrow Fox-like head, having upright pointed ears, and a brown stripe passing through the orbits across the face; the upper jaw has six fore-teeth, and the lower only two, and there are no tusks in either jaw; the fore legs are very short, with five toes on each; the hind legs are very long, having two very large, strong toes, and one very small one on the outside, which is found to consist of two sets of bones, and to have two closely united slender claws; the belly is furnished with a complete pouch for the reception of the young. From the structure of the legs, this animal leaps, instead of walking, in the manner of the Jerboas: They are kept, in Java, along with rabbits, in inclosures, and burrow in the ground.

396

15. Kanguru. - 11. Didelphis gigantea. 10.

The tail is long, thick, tapering, and hairy; the hind legs are very long, and furnished with three toes; the ears are erect, and the body is very large. Schreber, iii. 552. t. cliv.

Kanguroo, or Kanguruh. Cook's voy. iii. 577. t. xx. Hawkefworth, voy. iii. 174. t. 51. Penn. hift. of quad. n. 184.—Gigantic Jerboa. Zimmerman, 526.—Macropus giganteus, or Great Kanguroo. Nat. mifc. pl. 33.

Inhabits the western side of New Holland.—The head, neck, and shoulders of this animal are small, but the hinder part of the body is large and thick; the head and body are above three feet long, when full grown, the tail two feet nine inches; it sometimes weighs above eighty pounds: The head is long and tapering, the upper lip divided, and the end of the nose black; the ears are thin, oval, erect, and covered with short hair; there are no tusks in either jaw; in the upper jaw are four broad fore-teeth, standing perpendicular to the jaw; the lower jaw is shorter than the upper, and has only two

393

long fharp fore-teeth, standing directly forwards; each jaw has four grinders on each side, which are placed far back in the mouth; the belly is large and prominent, but has no pouch; the fore legs are very short and useless for walking, having five toes armed with long, strong, conical claws; the hind legs are almost as long as the body, with thick thighs, having only three toes on each foot; the middle one is very long and thick, with a strong large claw; the other two, one on each side, are small and distant from the middle one, have short thick claws, and the outer toe has two small close set claws, seemingly only one without a narrow inspection: The scrotum of the male is large and pendulous; the whole fur is ash coloured, smooth, and short; the breast and belly being considerably paler. This animal lives among the long grass, feeding on vegetables, is very timid, and moves by surprising leaps, with the hind legs, over bushes seven or eight feet high; and uses the fore paws only for digging and carrying its food to the mouth. It is very good eating.

The Kanguru, and the next species, though placed in this genus, on the authority of Dr Gmelin, ought certainly to have been arranged in the order of Glires, from their having no tuiks.—T.

16. Phillips Opossum.—Didelphis tradactyla.

The tail is long, tapering, and hairy; the hind legs are very long, and are furnished with three toes; the ears are rounded, and the body is very small.

Kanguroo Rat. Gov. Phillips voy. to Botany Bay, 1789, p. 277. and plate. -

Inhabits New South Wales.—The conftruction of the whole body and of the legs, both before and behind, is exactly fimilar to that of the Kanguru; from which it chiefly differs in fize, being about as big as a fmall Rat, while the former animal is as large as a Sheep. In the upper jaw there are two fharp pointed cutting teeth in front, and three broad ones on each fide; in the lower jaw two long pointed fore-teeth, extending directly forwards; on each fide of each jaw, at a diffance from the fore-teeth, are three grinders, the foremost of which are sharp edged, and have the sides channeled or sluted. The fur is smooth, and of a uniform dark brown colour; the breast and belly being paler than the rest.

17. Vulpine Opostum.—Didelphis vulpecula.

The tail is long, thick, and hairy; for three quarters of its length it is black, and the origin is of a grifly colour, like the body.

Vulpine Opossum. Gov. Phillips voy. to Botany Bay, 150. and plate.

Inhabits New South Wales.—The head and body measure twenty-fix inches, and the tail fifteen; the legs are short, and of an equal length; the foot is long, and rests in walking as far as the heel; each foot has five toes, all armed with sharp crooked claws, except the thumb, or great toe, on each hind foot, which is placed high up on the foot, and has no claws; the head is long, with a pointed muzzle, which is garnished with ten or twelve very long black whiskers, which stand backwards, and are longer than the head; the ears are long, erect, and pointed; the upper jaw has four fore-teeth, and the lower two, which point forwards, both being like those of the Kanguru; on each side, in the upper jaw, are two small tusks, but none below; there are four grinders on each side in both jaws. The whole upper parts of the body, and first quarter of the tail, are of a grisly colour, proceeding from a mixture of dusky and white hairs; with a reddish-yellow tinge, chiefly on the head and shoul-

ders; the rest of the tail is black; all the under parts of the body are of a tawny bust, which is deepest on the throat, where the bottom of the hairs is rusty brown.

399

400

18. Spotted Opossum. - Didelphis maculata.

The body is black and spotted with white; the tail is very bushy; and the female is furnished with a pouch.

Spotted Opossum. Gov. Phillips voy. p. 147. and plate.

Inhabits New South Wales.—This animal measures fifteen inches, from the muzzle to the rump, and the tail about nine: The general colour of the animal is black, inclining to brown on the under parts, the neck and body being spotted with irregular roundish white patches; the ears are large, erect, open, and pointed; the muzzle is long, pointed, and garnished with very long whiskers at the nose; the fore and hind legs, from the wrist and heels, are ash coloured, and almost naked, having five toes on each, armed with long, sharp, black claws, except the thumb, or great toe, of the hind soot, which is higher up the foot than the rest, and has no claw; the first inch and half of the tail is covered with short hair, with one or two small white or grey spots; the rest, to the end, is very bushy, with long coarse hairs, disposed somewhat like that of a Squirrel. The semale has six teats placed circularly, within a pouch, or false belly.

19. Flying Opossum. - Didelphis volans.

Has a broad hairy membrane, which extends from the middle of the fore legs to the ankle joint of the hind legs, and does not include the tail.

Black flying Opoffum. Gov. Phillips voy. p. 297. and plate. n. 55.

Inhabits New South Wales.—This animal measures twenty inches, from the nose to the rump, and the tail twenty-two: It is of a glossy black colour, slightly mixed with grey hairs, with a tawny spot on each hip; the under parts are white; along the middle of the back is a kind of mane, consisting of coarser and longer hairs; the tail is thick at the base, where it is of a light colour, and grows gradually smaller and blacker to the end; in the upper jaw are sour small fore-teeth, and on each side two tusks, and five grinders; in the lower jaw, two fore-teeth, no tusks, and five grinders on each side, placed very sar back; the fore paws have each five toes, armed with claws; the hind seet have four toes armed with claws, and a distant unarmed thumb; the two first toes, next the thumb, on the hind seet, are closely attached together, the next is not quite so much, and the last is quite free.

The Lemur volans, or Flying Maucauco, feems nearly allied to this species; from which it differs, however, in having the tail involved in the membrane.—T.

XX. MOLE,-19. TALPA. 18.

Has fix unequal fore-teeth in the upper, and eight in the lower jaw; one tusk on each side in each jaw; seven grinders on each side above, and six below. The Moles live entirely below ground, in cylindrical canals of their own digging, by which they go from place to place in quest of worms, which are their principal food; they likewise form circular nests near the surface of the ground, under flattish conical mounds or hills, in which they bring forth and rear their young. The body is thick, with a thick head and lengthened snout, the upper jaw being much longer than the lower; they have very short legs, the fore ones being hardly perceptible, but are surnished with very broad palmated paws, and the hind seet are small. They have no external ears, and the eyes are so very small, and so completely hid in the fur, as to make it vulgarly believed that they have none.

1. European Mole. - 1. Talpa europaea. 1.

Has a short tail, and five toes on each foot.

Talpa caudata, or Tailed Mole, having five toes on each foot. Syft. nat. ed. xii. p. 73. Faun. Suec. 23. It. Scan. 332.—Talpa. Gefn. quad. 931. Aldrov. dig. 45. Raj. quad. 236.—Taupe, or Mole. Sm. Buff. iv. 309.—European Mole. Penn. hift. of quad. n. 349. Brit. 2001. i. 108. Arct. 2001. i. 142. A.

Of this species there are several varieties, but the first, or Black Mole, is the most common.

a. Black Mole.—Talpa europ. nigra.

The fur is uniformly black.

401

402

403

404

Erxleb. mam. 114. Schreber, iii. 558. t. clvi. Sm. Buff. iv. 309. pl. lxxxvii. Penn. hift. of quad. n. 349.

β. Variegated Mole.—Talpa europ. variegata.

The fur is variegated with white spots. Briss. quad. 205.

Talpa maculata, or Spotted Mole, from East-Friesland. Seba, Mus. i. 68. t. 41. f. 4.—Spotted Mole. Edw. glean. ii. 122. t. 268. Weir's Mus.

y. White Mole.—Talpa europ. alba.

The fur is uniformly white. Briff. quad. 205. Seba, Mus. i. 51. t. 32. f. 1. Weir's Mus.

s. Grey Mole.—Talpa europ. cinerea.

The fur is of a cinereous colour. Hubsch, Naturs. iii. 98.

Talpa cinerea, or Cinereous Mole, with narrow fore paws. Richter, Abhandl. uber die phys. Befchaff. von Boehmen. Prag. & Drefd. 1786. iv. 82.

The anatomy of the Mole is described, E. N. C. d. 1. a. 2. obs. 51. and d. 2. a. i. obs. 130.—Its method of digging, Gleditsh, oper. miscel. iii. n. 5. C. F. Paulin. de Talpa. Francos. 1689. De la Faille, Naturg. des Maulwurfs. Francos. 1778.

Inhabits

Inhabits the whole of Europe, and the more northerly parts of Afia and Africa.—The Mole chiefly frequents moift fields that are exposed to the fun, meadows, and gardens; through these it confiructs subterraneous roads, or galleries, in every direction, in search of worms, on which, and the larvae of infects, it feeds, and not at all on vegetables, though it does great damage by loosening the roots of plants: It is most active in its operations before rain, because then the worms are in motion. The penis of the male is exceedingly long in proportion; they seem to pair, and propagate in spring, the female bringing four or sive young at a birth, which are placed in nests made of moss, leaves, and dried grass, under the largest hillocks of the field; these are constructed with wonderful ingenuity, consisting of an interior hillock, surrounded with a ditch, which communicates with several galleries, on purpose to carry off the moisture, and the nest is covered over with a dome of earth, like the flat arch of an oven. Moles are destroyed by means of a paste, composed of palma-christi and white helelebore, or by flooding the fields which they insert; though, in the latter case, they sometimes escape by ascending trees.

The Mole is five inches and three quarters long, and the tail one inch; it has a large head, with no external ears, and very minute eyes, which are hid in the fur, but are fusceptible of being extruded a little way; the fnout is long, the upper jaw being much longer than the lower; the fore part of the body is thick and muscular, with very short fore legs, placed much sidewise; the fore feet are very broad, flat, and oblique, having large palms, with five short toes armed with strong claws; the hinder parts are taper, with small feet, having likewise five toes; the skin is exceedingly tough, and is covered with short, close-set, velvet-like fur, usually of a fine black, sometimes spotted with white, altogether white, or grey. There are none in Ireland; and those of Siberia are larger than the common kind.

2. American Mole.—Talpa flava.

Has five toes on each foot; a short tail; and is of a yellowish brown colour.

405

406

Talpa europaea flava, or Yellow European Mole. Syft. nat. ed. Gmel. i. p. 110. n. 1. . Yellow Mole. Penn. hift. of quad. n. 349. \$.

Inhabits North America.—This species, or perhaps rather variety, resembles the European, but is larger, being fix inches and a quarter in length, and the tail one: The hair is soft, filky, and glossy, of a yellowish brown colour at the tips, and dark grey at the roots; it is brightest in colour about the head, and darkest about the rump; the belly is deep cinereous brown; the feet and tail are white-

3. Crested Mole.—Talpa cristata.

Has five toes on each foot; a short tail; and the nose is surrounded with short radiated tendrils. Penn. hist. of quad. n. 351. pl. xlviii. sig. 15

Sorex criftatus, or Crefted Shrew, having a fhort tail, and the nofe furrounded with radiated tendrils. Syft. nat. ed. Gmel. p. 112. n. 1.—Radiated Mole. Arct. zool. n. 69.

Inhabits North America.—Is about three inches and three quarters in length, the tail ar inch and three tenths: The nofe is long, and furrounded, at the point, with from ten to fifteen fhort, small, pointed, and naked tendrils, or caruncles, forming a start; the body is thick and round, like that of the Common Mole, and is covered with a fine, short, compact, and dusky coloured fur, rather longer Vol. I.

on the fnout; the fore feet are white and fmall, but broad, with five toes; the hind legs fcaly; the tail is flender, round, and taper; it has only four fore-teeth in the lower jaw, and four tufks in each This animal forms fubterraneous passages in various directions, through uncultivated fields, raifing ridges over them, about two inches high, and four in breadth; it feeds on roots, and has great strength in its legs. This species is placed in the Mole genus on the authority of Mr Pennant, and from its having the manners of that tribe, though, in the Systema Naturae, it is ranked with the Shrew, on account of the number of its teeth.

FERÆ.

4. Long-tailed Mole.—2. Talpa longicaudata. 3.

Has five toes on each foot; the tail is about half the length of the body; and the nose is furrounded with radiated tendrils. Erxleb. mam. 118.

Long-tailed Mole Penn. hift. of quad. n. 352. pl. xlviii. fig. 2. Arct. zool. n. 68.

Inhabits North America.—This species is from four to fix inches long, and the tail two, sometimes three: The fur on the head and body is long, foft, and of a rufty brown colour, but short on the tail; the fore feet are broad, naked, and palmated with strong short claws; the hind feet are scaly, with a few fhort hairs, and have long flender claws.

5. Brown Mole.—Talpa fusca. 408

Has five toes on each foot; the tail fhort; with two fore-teeth in the upper, and four in the lower jaw. Penn. hift. of quad. n. 355. Lev. Mus. Arct. zool. n. 70.

Sorex aquaticus, or Aquatic Shrew, with palmated feet, the feet and tail being fhort and white. Syft. nat. ed. Gmel. i. p. 112. n. 3. Schreber, iii. 566. t. clviii.—Talpa virginiana nigra, or Black Virginian Mole. Scha, Muf. i. 51. t. 32. f. 3. Kalm, It.

Inhabits North America.—The head and body are about five and a half inches long, and the tail is rather less than an inch: The nose is slender, the upper jaw being much longer than the lower; of the four lower fore-teeth the two in the middle are very finall; it has no tusks; the fore feet are very broad, and the hind feet finall; the fur is very foft and gloffy, of a brown colour at the ends, and deep grey at the roots; the feet and tail are white.

This and the Crefted species, though placed in the Systema Naturae among the Shrews, have the manners and figure of the Mole, and are therefore reftored to this genus on the authority of Mr Pennant.—T.

6. Red Mole. - 3. Talpa rubra. 4. 409

Has three toes on the fore feet, and four behind; with a short tail. Erxleb. mam. 119.

Talpa americana rufa, or Red American Mole, of a pale cinereous red colour, having three toes. before, and four behind; and provided with a tail. Briff, quad. 206. Seba, Muf. i. 51. t. 32. f. 2. Penn. hift. of quad. n. 354.

Inhabits America.—In the form of its body this animal refembles the common species, but is somewhat larger, and the root of the tail is thicker.

411

7. Gilded Mole. - 4. Talpa aurea. 2.

Has three toes on the fore feet and five behind; without any tail.

Talpa asiatica, or Asiatic Mole, having no tail, with three toes on the fore feet. Syst. nat. ed. Gmel. i. p. 111. n. 2.—Talpa aurea, or Golden Mole. Schreber, iii. 562. t. clvii.—Talpa aurea sibirica, or Siberian Golden Mole, of a greenish golden colour, with a tail, having three toes before and four behind. Briss. quad. 206.—Talpa versicolor, or Changeable Mole, from Siberia, called Aspalax. Seba, Mus. i. 51. t. 32. f. 4. 5.—Siberian Mole. Penn. hist. of quad. n. 350.—Gilded Mole. Sm. Buff. viii. 238.

Inhabits the Cape of Good Hope, according to Pallas.—The fnout is shorter than that of the European species, and the nose is naked; the body and head are about four inches long; the fur on the upper parts of the body is varied with glossy green and copper colour, having a fine splendid appearance, as if tissued with green, golden, and reddish; the lower parts are of a cincreous brown; the space between the tip of the nose and corner of the mouth is covered with pale brown hair, and a broad whitish bar points upwards along the sides of the head: In each jaw there are two sharp cutting teeth, with a sharp tusk, contiguous to the fore-teeth on each side of the lower jaw; on the fore feet are three toes, with very large claws, that on the outer toe being exceedingly large; on each hind foot five small toes, with small weak claws; the rump is round.

Very much analogous to this genus, is the division of Murine quadrupeds, named Subterraneous, (****) or Mole-rats, which are ranged under a different order, on account of their having no tusks.

XXI. SHREW.-20. SOREX. 19.

Has two long fore-teeth in the upper jaw, which are divided into two points; in the lower jaw are two or four fore-teeth, the two middle ones, in the latter case, being shorter than the others: On each side in both jaws are two or more tusks: The grinders are knobbed.

The animals of this genus have in general thick clumfy bodies, and five toes on all their feet; the head refembles that of the Mole, being thick at the fore-head, much elongated, and ending in a conical fnout, and having very finall eyes; in other circumftances of general figure they refemble the Murine tribe of quadrupeds. They burrow in the ground, some species living mostly about the sides of waters; and most of them feed on worms and infects.

1. Minute Shrew .- 2. Sorex minutus. 2.

Has a very long fnout and no tail. Schreber, iii. 578. t. clxi. B.

Pigmy Shrew, S. pygmaeus, having a very long fnout, five toes on all the feet, and no tail. Laxamann, Sibir. Brief. 72.—Minute Shrew. Penn. hift. of quad. n. 343.

C c 2 Inhabits

413

Inhabits Siberia about the rivers Oby and Kama. — Dwells in moift or watery places under the roots of trees, forming a neft of lichens, and collecting a magazine of feeds; runs fwiftly, and burrows with great readiness; bites fiercely, and has a voice similar to that of the Common Bat. The head is almost as large as the whole body, and has a very long slender nose, which is surrowed underneath, and garnished with whiskers reaching as far as the eyes; the ears are short, broad, and naked; the eyes very small, and retractile: The fur is sine, glossy, and of a grey colour in the upper parts of the body, the lower parts whitish. The whole body does not weigh above one dram, or the eighth part of an ounce.

2. Musky Shrew.—4. Sorex moschatus. 6.

The feet are webbed; the tail is flattened edgewise, broadest in the middle, and ends in a point. Pallas, It. i. 156, Lepechin, It. 1. 178. t. 13. Erxleben, mam. 127. Schreber, iii. 567. t. clix.

Caftor moschiterus, or Musky Beaver. Syst. nat. ed. xii. i. 79. Faun. Suec. p. 11. n. 28.—Mus. s. Castor moschiferus, Musk Rat, or Beaver, having the tail flattened vertically, and all the toes connected by membranes. Briss. quad. 92.—Mus aquaticus, s. aquatilis, or Water Rat. Clus. exot. 375. Jonst. quad. 169. t. 73. Aldrov. dig. 447. f. p. 448. J. G. Gmel. nov. com. Petrop. iv. 383. t. xiii. f. 5.—Long-nosed Beaver. Penn. Syn. of quad. n. 192.—Muscovy, or Musk Rat. Raj. quad. 217. Sm. Buss. v. 260. pl. cxxxi.—Musky Shrew. Penn. hist. of quad. 336.—Bisamraze. S. G. Gmel. It. i. 28. t. 3. 4.—Desiman. Guldenstedt, Naturs. besch. iii. 107. t. 2.

Inhabits the countries between the Volga and Tanais, from the fiftieth to the fifty-seventh degree of northern latitude.—This animal measures feven inches in length, from nofe to rump, and the tail is eight inches long; the head refembles that of a Mole, and has a long flender nose, which is cartilaginous, and very moveable, being garnished with twelve rows of white whiskers; it has no external ears, and very finall eyes; the body is rather flat-shaped, and, besides the skin, is provided with a panniculus carnofus, or thin muscle peculiar to the skin, by which the animal is enabled to shake it violently; the head and body are of a dufky colour, the belly is a whitifh ash colour; the feet are naked, fealy on their upper parts, and of a blackish colour; the tail is of a blackish or dusky colour; near the root of the tail are feven or eight finall glandular orifices, of a yellow colour, from which may be expressed about twenty grains of a yellowish thick fluid, which has a very penetrating odour of musk or civet; in the upper jaw there are four fore-teeth; fix tufks in each jaw; four grinders on each fide in the upper, and three on each fide of the lower jaw. This quadruped keeps conftantly on the borders of lakes or rivers, in the banks of which it digs holes, fimilar to those of the Otter, the entrance being below the lowest fall of the water, and the apartment above its highest rife; it is very slow of foot; feeds on water flaggs and fifh, and is greedily devoured by Pikes and other ravenous fifh, by which these sometimes acquire so strong a flavour of musk as to render them uneatable.

3. Water Shrew .- 5. Sorex fodiens. 7.

The tail is of a middle length; the body is blackish on the upper parts, and light assistance coloured beneath; the toes are fringed at the edges. Erxleb. mam. 124. Schreber, iii. 571. t. clxi.

fummer.

Musaraneus, having the upper parts of the body black, and the belly white. Merret, pin. 167.—
Musaraigne d'eau, Water Shrew, or Blind Mouse. Sm. Buff. iv. 308. pl. lxxxvi. fig. 2.—Graeber, or the Digger. Pallas.—Water Shrew. Penn. hist. of quad. n. 342. Brit. 2001. illustr. tab. cii.—Sorex bicolor. Nat. misc. pl. 55.

Inhabits Britain, Burgundy, Germany, Pruflia, and Siberia.—Burrows in the banks of rivers and ditches in fenny countries, fwims with great facility, and often under water; it measures not quite four inches from nose to rump, the tail being two; the nose is long and slender, broader at the extremity than that of the Fetid Shrew, and is furnished with long ash coloured whiskers; the cars are very small, and are garnished within with a tust of white hair; the eyes are very small and hid in the fur; the legs are longish, and white, with white feet; there are two fore-teeth in the lower jaw; three tusks on each side above, and two below; four grinders on each side above, and three below: The voice of this animal resembles the chirp of a Grasshopper. The female has ten teats, and brings forth nine young ones in the spring.

4. Javan Shrew.—6. Sorex murinus. 4.

The tail is of a middle length; the body is dufky; the legs, feet, and tail, are ash coloured.

Murine Shrcw. Penn. hift. of quad. n. 340.

Inhabits the island of Java.—Is about the fize of a common Mouse; has a long slender nose, channelled underneath, and garnished with long ash coloured whiskers; the ears are rounded, and almost naked; each jaw has two sharp, parallel forc-teeth; all the feet have five toes, armed with claws; the tail is rather shorter than the body, and less hairy.

5. Fetid Shrew .- 7. Sorex araneus. 5.

The tail is of a middle length; the upper parts of the body are brownish red, and the under parts dirty white. Schreber, iii. 573. t. cxl.

Mus araneus, Musaraneus, Shrcw-mouse, Shrew, or Hardy Shrew. Raj. quad. 239. Gesn. quad. 747. Aldrov. dig. 441. fig. p. 442. Jonst. quad. 168. t. 66. Agric. An. Subt. 485. Klein. quad. 57. Kramer, Aust. 317. Briss. quad. 126.—Nabbmus. Faun. Suec. 24.—Musaraigne, or Shrew-mouse. Sm. Buff. iv. 303. pl. lxxxvi. fig. 1. Brit. 2001. i. 112.—Foetid Shrew. Penn. hist. of quad. n. 341.

Inhabits the whole of Europe, and the northern parts of Afia, to Kamtschatka, and as far fouth as the Caspian.—Lives in old walls, heaps of stones, and holes in the earth near villages, in dunghills, hay-ricks, stables, barns, necessary-houses, and other out-houses, especially frequenting damp places, and pools of water; feeds on corn, infects, and almost any filthy thing, being often observed rooting in ordure with its nose, like a Hog; it has a very disagreeable odour, of a musky kind, so that, though cats destroy great numbers of them, they never eat their bodies. This animal is about two and a half inches, never exceeding three, in length, the tail one and a half, and the whole body scarcely exceeds three drams in weight; it runs more flowly than the common Mouse; the teeth refemble those of the Water Shrew, already described; the voice is a shrill whistling: In spring and

fummer, the female produces five or fix young at a birth. Great numbers of this species are found dead in the paths every August, without any evident cause. The ears are short, and rounded; the eyes small, and almost hid in the fur; the nose long and stender, the upper jaw being much longer than the under.

416

6. Labradore Shrew. - Sorex arcticus.

The head and upper parts of the body are dusky, and the sides of a brownish rust colour.

Penn. Arct. zool. n. 67.

Inhabits Hudson's Bay and Labradore.—The nose is very long and slender; the upper jaw extending far beyond the lower; the eyes are very sinall, and almost hid in the fur; the ears are short. Mr Pennant supposes that this species, or variety of the Fetid Shrew, is likewise found in Carolina, as Mr Lawson, in his history of that country, p. 125. mentions a Mouse found there which poisons cats.

417

β. Grey Labradore Shrew .- Sorex arcticus cinereus.

Of a dusky grey colour on the upper, and yellowish white on the under parts of the body. Penn. Arct. zool. i. p. 139.

Two specimens of this variety were sent by Mr Graham from Hudson's Bay at the same time with the other variety; these Grey Shrews were both smaller than the Fetid Shrew of Britain, one being only two inches, and the other two and a quarter, in length. Mr Pennant thinks that both of these, and the dusky species, are only varieties of the Fetid Shrew.

418

7. Surinam Shrew .- 8. Sorex surinamensis. 8.

The tail is scarce half the length of the body; the body is chesnut coloured on the upper, and below of a pale yellowish ash colour.

Inhabits Surinam.—In fize, shape of the head and fnout, teeth, eyes, and feet, this species refembles the Water Shrew; but the ears are like those of the Fetid Shrew: The tail is covered with very short, simooth, close set hair, cinereous on the upper, and whitish on the under side; the muzzle, round the mouth, is white.

419

8. Timid Shrew .- 9. Sorex pufillus. 9.

The tail is short, and has the hair partly shed towards the sides; the ears are rounded. Erxleb. mam. 122. S. G. Gmelin, It. iii. 499. t. 75. f. 1.

Inhabits the deferts of Perfia.—This animal lives in holes, which it burrows in the ground: The body is about three inches and a half in length, of a dark grey on the upper, and afh coloured on the lower parts; the teeth are like those of the Fetid Shrew, but in other respects it resembles the Surinam species, though considerably larger.

420

9. Brasilian Shrew .- 10. Sorex brasiliensis. 10.

Of a dark colour, with three broad stripes of black along the back. Erxleb. mam. 127.

422

423

Musaraneus murinus, or Mouse-like Shrew. Marcgr. Bras. 229.—Brasilian Shrew. Sm. Buff. viii. 273. Penn. hist. of quad. n. 339.

Inhabits Brasil.—Is about five inches long, and the tail not quite two inches; the scrotum is pendulous; the muzzle is pointed, and the teeth very sharp. This animal is by no means afraid of cats; with which it will even play.

10. Pigmy Shrew .- 11. Sorex exilis. 11.

The tail is very slender near the root, then suddenly grows remarkably thick and round, and again tapers to the end. Penn. hist. of quad. n. 344.

Sorcx exilis, of an exceedingly fmall fize, and having a very thick round tail. Syft. nat. ed. Gmel. i. p. 115. n. 11.

Inhabits Siberia about and between the rivers Oby and Jenisei.—This is the smallest quadruped hitherto known, scarcely exceeding half a dram, or the sixteenth part of an ounce, in weight: The nose is very long and slender; the general shape and colour resemble the Fetid species, but of a paler brown red. An account of this animal was communicated by Dr Pallas to Mr Pennant; it is noticed by Dr Gmelin, but without quoting any authority.

11. Blue Shrew. - Sorex caerulaeus.

The tail is of a middle length; the upper parts of the body are of a pale blue colour, and the belly lighter, with white legs and feet.

Mus pilorides? Pallas, nov. sp. fasc. i. 91.—Mus albus zeylonicus, or White Rat from Ceylon? Briss, quad. 122.—Perfuming Shrew. Penn. hist. of quad. n. 337. Lev. Mus.

Inhabits Java, and the other islands of the East Indies.—This animal feeds on rice; it is near eight inches long, and the tail three and a half; the nose is long and slender, the upper jaw being greatly longer than the lower; the upper fore-teeth are short, the under ones long, slender, and crooked inwards; the muzzle is garnished with long white whiskers; the eyes are small; the ears are broad, round, naked, and transparent; the fur is short, and close set; the whole body has so strong an odour of musk as to persume every thing it runs over; and is even faid to infect the wine in a well corked bottle; cats will not attack it.

12. Mexican Shrew.—Sorex mexicanus.

The tail is short; the fore feet have only three toes, and the hind feet four.

Mexican Shrew. Penn. hift. of quad. n. 338.—Tucan. Fernand. Nov. Hifp. cap. 24. p. 9.—Tucan or Mexican Shrew. Sm. Buff. viii. 271.

Inhabits Mexico and New Spain.—Is about nine inches long from the tip of the nose to the origin of the tail; the nose is sharp; the ears are small and rounded; the eyes are very small, and hid in the fur; it has two long fore-teeth in each jaw; the body is thick, fat, sleshy, and of a reddish yellow colour; the legs are very short, so that the belly trails on the ground; the toes are all armed

427

with long crooked claws: This animal burrows in the ground, and makes such numbers of holes that travellers can scarce tread with safety; it feeds on roots and feeds; and the flesh is reckoned very good to eat.—The Count de Buffon, on the authority of Fernandez, says, that it is so stupid as not to recognise its hole after having quitted it, and on this account it is obliged continually to dig new holes; but this is impossible, as the semale would never be able to discover the retreat of her young ones.—T.

424 13. White-footed Shrew.—Sorex albipes.

The tail is slender and hairy; the head and upper parts of the body are of a dusky ash colour; the feet, belly, and teeth white. Penn. hist. of quad. n. 345.

14. Square-tailed Shrew .- Sorex quadricaudatus.

The tail inclines to a square form; the head and upper parts of the body are of a dusky ash colour; the belly-paler; and the fore-teeth brown. Penn. hist. of quad. n. 346.

426 15. Carinated Shrew.—Sorex liricaudatus.

The tail is taper, slender, and ridged underneath; the head and upper parts of the body are of a dusky ash colour, having a white spot behind each eye; the belly is whitish; and the fore-teeth are brown. Penn. hist. of quad. n. 347.

16. Uniform Shrew.—Sorex unicolor.

The tail is narrowed or compressed at the base; the whole body is of an uniform dusky ash colour. Penn. hist. of quad. n. 348.

These last four animals are ranked, by Mr Pennant, as distinct species of this genus, though I am apt to suspect that they are only varieties of the Common Fetid Shrew, or Sorex Araneus. They were all discovered, by Professor Herman, in the neighbourhood of Strasburg; but, as Mr Pennant does not quote the book, it is impossible to ascertain their proper place in system without farther information.—T.

XXII. URCHIN.-21. ERINACEUS. 20.

Has two fore-teeth in each jaw; those of the upper jaw being distant from each other, while the lower stand close together: On each side there are sive tusks in the upper jaw, and three on each side in the lower: On each side of both jaws are sour grinders. The back and sides are covered with strong sharp pointed spines. All the seet have sive toes.

429

3-

1. Common Urchin.—1. Erinaceus europaeus. 1.

Has short, broad, rounded ears; the nostrils are bordered on each side with a loose stap. Faun. Suec. 8. n. 22. Schreber, iii. 580. t. clxii.

Erinaceus auriculis erectis, or Urchin, with erected ears. Briff. quad. 128.—Erinaceus parvus nostras, or Small domestic Urchin. Seba, Mus. i. 78. t. 49. f. 1. 2.—Echinus terrestris, or Land Urchin. Gesn. quad. 368. Aldrov. dig. 459. Jonst. quad. 171. t. 68.—Echinus terrestris, Erinaceus terrestris, Urchin, or Hedge-hog. Raj. quad. 231.—Igel. Knorr, del. ii. t. H. f. 3.—Heriston, or Hedge-hog. Sm. Bust. iv. 300. pl. lxxxv.—Sora. Flacourt, voy. Madagas. 152.—Common Hedge-hog. Penn. hist. of quad. n. 355. t. xlviii. sig. 3. Brit. 2001. i. 106. Arct. 2001. i. 142. B.

Inhabits the whole of Europe, except the cold regions of the north; the fouthern parts of Siberia, as far as the Kirgifian deferts and the Jaic, and in Madagafcar.—Refides in thickets, hedges, and at the bottom of dry ditches which are covered with bushes, where it builds a nest of moss, grafs, or leaves; it hybernates under hedges or thick bushes, rolled up in a globular form; goes abroad only in the night, and lives on frogs, toads, worms, beetles, may-bugs, grafshoppers, crabs, finals, fruits, roots, finall birds, and carrion; digs holes in mosfy places; swims very readily; when terrified or irritated, it rolls itself into a round form, presenting the points of its spines on every side as a desence, and ejecting its urine, which has a difgusting smell; by these means it is invulnerable to dogs, polecats, martins, ferrets, or birds of prey; it fcreams when the feet are pinched, and has a musky odour. By the Calmucks, this animal is domesticated, and kept in their huts instead of cats. The sless is not eatable. The Hedge-hog lives in pairs which propagate in fpring, face to face, on account of the prickles; and the female, which has three teats on the breast and two on the belly, brings forth from three to five young ones about the beginning of fummer; thefe are at first entirely white, and the buds of the fpines just appear through the skin. This species is about ten inches long; the muzzle is long and fharp, having the upper lip divided, and the noftrils bordered on each fide with a loofe flap of skin; the ears are broad, short, and hairy; the eyes are small, and of a black colour; the prepuce of the male is long and pendulous; the upper parts of the face, the fides, neck, and rump, are covered with yellowish ash coloured hair, mixed with white; the spines are of a whitish colour at both ends, with a black bar in the middle, and are interspersed with tawny hairs; the tail is about an inch long, and is covered with dark hair; the legs are fhort, naked, and dufky, having five toes on each foot, the inner toe being smaller and farther back than the rest, and all are armed with weak claws.

2. Guiana Urchin .- 2. Erinaceus inauris. 2.

Has no external ears. Briss. quad. 184.

Erinaceus americanus albus, or White American Urchin. Seba, Muf. i. 78: t. 49. f. B.—American Hedge-hog. Bancroft, Guian. 144.—Guiana Hedge-hog. Penn. hift. of quad. n. 358.

Inhabits Guiana, and probably in other parts of South America.—Inftead of external ears, this animal has only orifices to the auditory carrals; the head is thick and fhort; the back and fides are covered with fhort ash coloured spines, tinged with yellow; the belly, legs, tail, and face, are covered with foft whitish hair, which becomes chesnut coloured over the eyes; the hinder part and sides of the head are deeper chesnut; the tail is short; the claws are long and crooked; and the whole length of the animal, from the point of the nose to the origin of the tail, is about eight inches.

V.o., I, D d

432

3. Malacca Urchin. - 3. Erinaceus malaccensis. 3.

Has pendulous ears. Briff. quad. 183.

Hystrix brachiura, or Short-tailed Porcupine. Syst. nat. ed. x. i. p. 57.-Porcus aculeatus, s. Hystrix malaccensis, Malacca Hedge-hog, or Pocupine. Seba, Mus. i. 8t. t. 51. f. 1.

Inhabits Afia.—From this species is procured the stone, called *Piedra-del porco*, formerly held in high eftimation *. Dr Gmelin feems uncertain whether this animal should be considered as a species of this or of the Porcupine genus; but is disposed, on the authority of Brisson, to rank it in this place.

4. Siberian Urchin. -- 4. Erinaceus auritus. 4. 431

Has long oval ears, and the nostrils are crested at the edges.

Erinaceus auritus, or Long-eared Urchin. Pallas, nov. com. Petrop. xiv. 573. t. 21. f. 4. S. G. Gmélin, Do. xiv. 519. t. 16. Schreber, iii. 582. t. clxiii.—Siberian Hedge-hog. Penn. hift. of quad. n. 356.

Inhabits Eastern Asiatic Russia, at the lower parts of the Volga and Ural rivers, and beyond lake Baikal.—In the former of these districts this species is considerably smaller than the European Urchin; but those beyond lake Baikal are often much larger: The upper jaw is long and slender, having four rows of whitkers on the nofe; the ears are very large, open, and naked, having foft whitifh hair on the infide, and being edged with brown; the tail is shorter than in the European species, is of a taper form, thick at the origin, annulated, almost naked, and having only a few very foft hairs; the upper part of the body is covered with flender brown fpines, having a white ring on each near the bafe, and another near the point; the limbs are long and flender, and thefe and the belly are covered with a very fine, foft, white fur. The female has fometimes two litters in the year, and brings forth as far as feven at a birth. This species hybernates, during winter, in holes only a few inches below the furface of the ground; it feeds on infects, even eating cantharides with impunity; it grows very fat, rolls itself up when frightened, and has all the manners of the European species.

5. Tendrac .- 5. Erinaceus setosus. 5.

Has spines only on the head, neck, tail, and withers. Sm. Buff. vii. 86. pl. ccix.

Erinaceus, having shortish ears; the hind part of the head tolerably covered; the tail very fhort and covered with spines. Syst. nat. ed. Gmel. i. 117. n. 5. Schreber, iii. 583. t. clxiv.— Afiatic Hedge-hog. Penn. hift. of quad. n. 357.—Small Madagascar Tendrac. Sonneret, It. ii. 146. t. 93.

Inhabits India and Madagafear.—This fpecies is confiderably finaller than the European Urchin, being fearcely fix inches long: The muzzle is very long, and is garnished with long whiskers; it has no fpines but on the head, neck, and withers, the reft of the body being covered with coarfe hair, like hogs briftles, of a whitish colour; the tail is very short, and is covered with spines; the spines are white, with a ruft coloured ring in the middle; the legs are very fhort, and all the feet have five toes.

This

^{*} Probably a kind of Bezoar.-T.

This species is about the fize of a Common Mole; it wallows in the mire, and grunts like a Hog; frequents fresh and falt water, burrows in the ground, and lies torpid, during six months, in its hole; in which time the hair falls off, and is renewed when the animal goes about again. It is generally very fat, and, though the flesh is reedy and insipid, it is eaten by the natives.

6. Tanrec .- 6. Erinaceus ecandatus. 6.

Has no tail; the muzzle is very long and slender; the back and sides are covered with spines. Schreber, iii. 584. t. clxv. clxv *.

Tanrec. Sm. Buff. vii. 86. pl. ccx.—Afiatic Hedge-hog. Penn. hift. of quad. n. 357.

Inhabits India and Madagascar.—This species is considerably larger than the former, or Tendrac, being nearly as large as a Rabbit, when full grown. It differs likewise from the former, in having the top of the head, the neck, back, rump, and sides entirely covered with short spines, of a yellowish colour, with a black bar in the middle; the belly is covered with yellowish hair; the legs and feet are tawny, having sive toes on each foot; on the muzzle, and behind the ears, are several very long black whiskers; the ears are rounded, and somewhat longer than those of the Tendrac.—In voice, manners, and mode of life, this species agrees with the preceding; and both are considered by Mr Pennant as being only varieties of the same species, notwithstanding the very remarkable difference in their size and description. It is necessary to remark, that the engraver of Busson's plates, in the Edinburgh edition, has reversed the names.—T.

D d 2

211

LIR IV.

GLIRES.

Have no tulks in either jaw; in both jaws there are two fore-teeth standing close together, but at a great distance from the grinders.

XXIII. PORCUPINE.—22. HYSTRIX. 21.

The fore-teeth feem obliquely cut off at the ends: The two jaws have eight grinders. The fore paws have each four, and the hind feet five, toes. The body is covered with long spines, intermixed with hair.

1. Crested Porcupine.—1. Hystrix cristata. 1.

The top of the head is furnished with a long reclined crest of stiff bristles. Brist quad-125.

Hystrix cristata, having four toes on each fore foot, and five on the hind feet, with a crest on the head, and a short tail. S. G. Gmel. It. iii. 107. t. 21. Schreber, iv. 599. t. lxvii. Syst. nat. ed. Gmel. i. p. 118. n. 1. - Hyftrix criftata orientalis, or Crefted oriental Porcupine. Seba, Muf. i. 79. t. 50. f. 1. Gefn. quad. 563. Aldrov. dig. 471. fig. p. 474. Jonft. quad. 163. t. 68. Raj. quad. 206.—Acanthion criftatus. Klein, quad. 66.—Stachelschwein. Ridinger, kl. thiere. t. 90. Knorr, delic. ii. t. K. ii. f. 2.-Porcupine. Sm. Buff. vii. 69. pl. ccv. ccvi.-Crested Porcupine. Penn. hift. of quad. n. 253.

Inhabits the fouthern parts of Asia, in Africa, Spain, and Italy; is found in the Sand hills to the fouth-west of the Caspian, in Southern Tartary, Persia, and Palestine.—The Forcupine dwells in large burrows, or holes, of its own digging, which have a fingle entrance, and are divided into many apartments; it goes about during night, in fearch of fruits, roots, and herbs, and is particularly fond of the box-wood fhrub; when threatened by an enemy, it rolls itfelf into a round form, prefenting its quills, or fpines, on every fide as a defence: The female brings from two to four young ones at a birth in fpring; and thefe are very eafily tamed. This is a harmless animal, except to gardens, where it makes great devastation on pot-herbs; in a domestic state, when angry, it runs its head into a corner, erects its fpines against any affailant, and makes a grunting or fnorting noife.

Ther, are force divertities between the Porcupines of Italy and those of Asia and Africa; the quills of the former are confiderably shorter, and the creft much smaller: These differences are particularly

435

436

437

noticed in the plates of Buffon's natural hiftory, though not in the text, fo that they may fairly be taken as varieties.

a. Italian Porcupine.—H. cristata europaea.

Has shorter spines, and a smaller crest. Sm. Bust. vii. pl. ccv.

β. Indian Porcupine.—H. cristata indica.

Has long spines, and an ample crest. Sm. Buff. vii. pl. ccvi.

The Porcupine is fometimes above two feet long; and the tail, which is of a conical form, and covered with quills, is four inches in length; the head is long and compressed laterally, having a short, blunt, nose; the upper lip is deeply divided as far as the nostrils; the eyes are small and black; the ears short, broad, oval, and somewhat like those of mankind; the legs are short and thick; the body is covered with long and strong spines of quills, which are very smooth, sharp pointed, and variegated with black and white rings; these, and the long bristles on the back of the head, the animal is able to erect and recline at pleasure, by means of a paniculus carnosus, or subcutaneous muscular expansion; between the spines are a few cinereous or ash coloured hairs; and the head, belly, and legs, are covered with strong bristles of a dusky colour, intermixed with soft hairs. The gall bladder of this animal frequently contains a species of bezoar, formerly much valued. The sless of the Porcupine is fold in the markets of Italy, and is tolerably good.

2. Brasilian Porcupine. - 2. Hystrix prehensilis. 2.

The tail is long, naked underneath at the end, and prehenfile; the hind feet have only four toes; it has no hair among the spines. Schreber, iv. 603. t. claviii.

Hyftrix americanus, or American Porcupine, named Cuandu, by the Brafilians, and Ourico cachieno, by the Portuguese. Marcgr. Bras. 233. Jonst. quad. 60. Raj. quad. 208.—Brafilian Porcupine. Penn. hift. of quad. n. 255. pl. xli. fig. 1.

Of this species two varieties are mentioned in authors.

a. Larger Brasilian Porcupine. - Hystrix preh. major.

Having a longer tail, and shorter spines. Darrere Fr. equin. 153.

Larger Cuandui Pifo, Ind. 324. f. p. 325.—Larger American Porcupine. Briff. quad. 131.

B. Smaller Brafi'ian Porcupine. - Hyftrix preb. minor.

Of a smaller fize, and having a white head. Barrere, Fr. equin. 153.

Cuandu. Pifo, Ind. 99.—American Porcupine, having a long flender tail, the under half of which, at the extremity, is defititute of fpines. Br.A. quad. 129.

Inhabits

Inhabits Mexico and Brafil.—The nose is short and blunt, having long white whiskers, and a bed of small spines on the upper lip under the nose. The top and sides of the head, back, and sides, the base of the tail, and outsides of the legs and thighs are covered with very sharp spines, of a white co-cour, barred with black at the ends; these are near three inches long at the hinder part of the back and base of the tail; they adhere closely to the skin, which has no hair intermixed; as they approach the belly, they become shorter and weaker, and on the breast and belly are converted into dark brown bristles: The seet are of an ash colour, having each sour long toes, armed with strong black claws, and the hind seet have each a large protuberance instead of a thumb, or inner, fifth toe; the tail is eighteen inches long, slender, and taper; the last ten inches is almost naked, having only a few hairs, and is prehensile; the body and head of the larger variety, from which the description here given was taken by Mr Pennant, is about the same length with the tail; the smaller variety is less known; all that is said of it being that it is smaller, and has a white head.

Buffon confounds these two varieties with the following species, but mentions, that in Guiana there are two species, probably the two varieties just described, one of which weighs from twelve to sisteen French pounds, and the smaller only about fix: They are eaten by the Negroes, who prefer their sless to that of the Paca, or Spotted Cavy; they climb trees slowly, and affist themselves with their tails, living on fruits and small birds; bite sometimes, but not dangerously; sleep during the day; make a noise with their nostrils as if out of breath, and grunt like a Sow; roll themselves up into a ball when frightened; and may be tamed.

3. Mexican Porcupine. - Hyftrix mexicana.

The tail is long, and prehensile at the end; the hind feet have only four toes; the spines are intermixed, and almost hid, with downy hair, and very long bristles. Penn. hist. of quad. n. 256. Syst. nat. ed. Gmel. i. 119. n. 2. 7.

Hoitztlacuatzin, Ttlacuatzin fpinofus, Spinous Opoffum, Hyftrix novae hifpaniae, or Porcupine of New-Spain. Hernand. mex. 322. Nieremb. hift. nat. 154.—Porcupine, with a fhort thick tail, and covered with fpines which just appear through the fur. Briff. quad. 127.—Coendou. Sm. Buff. vii. 76. pl. ccvii.

Inhabits the mountains of Mexico.—This animal is confounded by the Count de Buffon with the two varieties of the former species, which, it would appear, he had never seen; it is likewise by Dr Gmelin made a third variety of the former, and, by mistake, this from Buffon is quoted as the same with the Lesser Brasilian Porcupine; but, with great propriety, Mr Pennant, who had seen a specimen of the greater variety of the former species, has separated this, which, on his authority, is placed here as a distinct species. The Mexican Porcupine is of a dusky colour, and the whole body is covered with downy hair and very long bristles; the spines are varied with white and yellow bars, are three inches long, very slender, and scarcely apparent, except on the lower part of the tail, which is thicker and shorter than that of the former species, and from the middle to the extremity is free from spines. The head and body are about eighteen inches long, and the tail nine; but the specimen from which Buffon describes was mutilated. This species lives on fruits during summer, and is easily tamed.

440

44 I

4. Canadian Porcupine.—3. Hystrix dorsata. 3.

The tail is of a middle length, and not prehenfile; the hind feet have five toes; the whole body is covered with long foft fur, intermixed with spines on the upper part of the head, body, and tail. Penn. hist. of quad. n. 257. Arct. 200l. n. 42.

Hystrix dorsata, having four toes on the fore and five on the hind feet, with spines only on the back. Syst. nat. ed. Gmel. i. 119. n. 3. Schreber, iv. 605. t. clxix.—Hystrix hudsonius, or Hudson's Bay Porcupine, having the spines hid under the hair, with a short thick tail. Briss. quad. 128.—Hairy American Porcupine. Catesby, Carol. app. 30.—Cavia hudson's, or Hudson's Bay Cavy. Klein, quad. 51.—Porcupine from Hudson's Bay. Edw. av. i. 52. t. 52. Ellis, voy. 42. Clark, voy. i. 177. 191.—Urson, or Canada Porcupine. Sm. Bust. vii. 83. pl. ccviii.

β. White Canadian Porcupine. - H. dorfata alba.

Of a uniform white colour. Penn. hist. of quad. n. 257. Lev. Mus.

Inhabits North America, as far north as the country about Hudson's Bay, and Newfoundland.— Digs holes under the roots of trees, and even ascends them, living on their fruits and bark, especially on the juniper shrub; it laps water like a Dog, and in winter eats snow as drink: The whole body, head, legs, and upper part of the tail, are covered with fur of a dark rusty brown colour, consisting of one series of long soft hairs, and a lower soft coat of down, like the Beaver, interspersed with some long, stiff, straggling hairs, tipt with dirty white; intermixed with this, and entirely hid in it, are numbers of strong sharp quills, or spines, on the upper part of the head, back, and tail, near three inches long on the back, shorter towards the head and sides; these are so slightly attached to the skin, that, by stroaking the animal, they come out sticking to the hands. This animal is nearly as big as a Hare; the tail is about six inches long, and white underneath; the ears are short, and hid in the fur.

5. Long-tailed Porcupine.—4. Hyfirix macroura. 4.

Has five toes on all the feet, and a very long tail with jointed spines. Schreber, iv. 607.
t. clxx.

Hystrix orientalis, or Oriental Porcupine, having a very long tail, tusted at the end, and universally covered with spines. Briss. quad. 131.—Porcus aculeatus silvestris, Hystrix orientalis singularis, Wild Hedge-hog, or Singular Oriental Porcupine. Seba, Mus. i. 84. t. 52. f. 1. Bont. Jav. 54.—Long-tailed Porcupine. Penn. hist. of quad. n. 254.

Inhabits the islands of the Indian Ocean.—The body is short and strongly made, and is covered with long stiff hairs, as sharp as needles, which reslect various colours; the tail, which is as long as the body, and tapers to a very slender point, is tusted at the extremity with a bundle of long bristles, of a transparent silvery colour, composed of joints rising one above the other like grains of rice. The seet are all divided into five toes, one of which, serving as a thumb, turns backwards to assist in climbing trees. The ears are short and naked; the eyes are large and bright.

β. Brawny Porcupine. - Hyftrix torofa.

Dr Gmelin fupposes the animal described, under this name by Merrem, in Leske's Magaz. zur Naturk. und Oekonomie, 1786, P. ii. 197. 198. may belong to the Long-tailed species, as a variety; but, though he quotes that author, he does not give any description of the animal.

XXIV. C A V Y .- 23. C A V I A.

Has two wedge-like cutting teeth in each jaw; eight grinders The fore feet have four or five toes; the in both jaws. hind feet three, four, or five, each. The tail is either very fhort, or entirely wanting. The collar bones, or clavicles, are wanting.

The animals of this genus feem to hold a middle place between the Murine quadrupeds and the Rabbit genus; they have a flow, and mostly a kind of leaping, pace; they never climb trees; they live on vegetable food; and dwell in hollow trees, or in burrows which they dig in the earth.

443

r. Paca. - I. Cavia Paca. I.

Has hardly any tail; all the feet have five toes; the fides are marked with rows of grey or pale yellow spots. Erxleb. mam. 356. Schreber, iv. 609. t. clxxi.

Mus Paca, or Paca, with a very fhort tail. Syft. nat. ed. xii. i. 81. n. 6.—Cuniculus Paca, or Paca, having external ears and a fhort tail, covered with coarse dark brown hair, and marked on the fides with rows of yellowish white spots. Briff. quad. 144. n. 4. Gronov. zooph. i. 4. n. 15.-Pak, Cuniculus minor paluftris, or Leffer Marsh Rabbit, marked with white streaks. Barrere, Fr. equin. 152.—Mus brafilienfis major, or Larger Brafilian Moufe, having the voice and hair like a pig, called Paca by the natives. Raj. quad. 226.—Paca. Marcgr. Braf. 224. Pifo, Ind. 201. Jonft. quad. t. 63. Sm. Buff. v. 392. pl. clvii.—Laubba. Bancr. Guian. 76.—Spotted Cavy. Penn. hift. of quad. n. 235.-Hog-rabbit. Wafer's voy. in Dampier. iii. 401.

Inhabits Brafil, Guiana, and probably in all the warmer parts of America. Lives in fenny places near rivers, burrowing in the ground, and keeping its hole exceedingly clean, to which it has always three diffinct outlets: It grows very fat, and is efteemed a great delicacy. The body and head meafure about two feet in length; the tail is like a finall button, and fo extremely short, as to be hardly apparent, measuring only two or three twelfth parts of an inch; the head is large and thick, with a lengthened thick nofe, which is black at the tip; the upper jaw is confiderably longer than the lower; the mouth is very finall, and the upper lip is divided; the noftrils are very large, and the muzzlè is garnished with long whiskers; the upper jaw has at each side a fold of the skin resembling a mouth; the ears are fhort, broad, roundish, and covered with a fine and almost imperceptible down; the eyes are large, prominent, and brownish; the eye-brows, temples, and throat, are garnished with hairy waxts; the two cutting teeth in each jaw are very long, of great firength, and of a faffron yellow colour; the tongue is narrow, thick, and fomewhat rough; the hind legs are longer than the fore, and rest on the sole of the foot as far as the heel; all the feet have five toes armed with claws, the inner claw being very short. The semale has two teats situated between the hind thighs; and has only a single young one at each litter. The whole upper parts of the body are covered with short, coarse, thinly scattered hairs, of a dusky, or dark brown, colour, which is deeper on the back; the sides are marked with five rows of white, grey, or yellowish spots, almost running into each other; the belly, breast, throat, and insides of the legs are of a dirty white.

217

B. White Paca. - C. Paca alba.

Entirely of a White colour. De Laet. 484. Penn. hist. of quad. p. 364.

444

445

This variety inhabits the environs of the river St Francis in South America; and, except in colour, refembles in every thing the animal described above.

2. Akouchy.—2. Cavia Acuschy. 2.

Has a short tail; the upper parts of the body are of an olive colour, the under parts whitish. Erxleb. mam. 354. Schreber, iv. 612. t. clxxi. B.

Akouchy, Cuniculus olivaceus minor, or Leffer Rabbit, of an olive colour. Barrere, Fr. equin. 153. Des Marchais, iii. 303. Sm. Buff. v. 61. and viii. 269. pl. ccxcii.—Olive Cavy. Penn. hift. of quad. n. 237.

Inhabits Guiana, Cayenne, and Brasil.—Is about the fize of a half grown Rabbit, is easily tamed, and is reckoned very delicate food. The female brings one, sometimes two, at a litter. This species resembles the following, or Agouti, but is uniformly smaller, has a tail of some length, and is of a different colour. It inhabits the woods, living on fruits; abhors water, and sometimes, though rareally, makes a cry like that of the Restless Cavy.

3. Agouti. - 3. Cavia Aguti. 3.

Has a very short tail; the upper parts of the body are of a brown colour, mixed with red and black, the rump of a bright orange, and the belly yellowish. Erxleb. mam-353. Schreber, iv. 613. t. clxxii.

Of this species there are three varieties mentioned in authors, viz.

446 a. Lesser Agouti.—C. Aguti cunicularis.

Has a very short tail, four toes before, three behind, and a yellowish belly. Syst. nat. ed. xii. i. 80. n. 2.

Cuniculus Agouti, having external ears and a tail, and covered with coarse fur of a mixed reddish and dark brown colour. Briss. quad. 143. Gronoph. 200ph. i. 4. n. 14.—Small Indian Coney, or Larger Mouse, of a brown ash colour, with a very short tail. Brown, Jamaic. 484.—Mus sylvesttris americanus, or American wild Mouse, as large as a rabbit, and having the hair and voice of Vol. I.

448

a pig. Raj. quad. 226.—Cuniculus vulgatissimus, or Commonest Rabbit, called Aguti. Barrere, Fr. equin. 153.—Aguti, Acuti, or Agoutis. Marcgr. Bras. 224. Piso, Bras. 102. Jonst. quad. t. 63. De Laet, 484. Rochefort, Antill. i. 287.—Long-nosed Rabbit. Waser, in Dampier's voy. iii. 401.—Long-nosed Cavy. Penn. hist. of quad. n. 236.—Agouti. Sm. Buff. v. 58. pl. cvi.

Inhabits Brafil, Guiana, Cayenne, and other parts of South America, and in the West Indian islands.—This animal is about the fize of a Rabbit.

β. Larger Agouti.—3. β. C. Aguti leporina.

Has a very fhort tail; the upper parts of the body are reddish, and the under parts white. Erxleb. mam. 355.

Mus leporinus, or Hare-like Mouse, with a short tail; having four toes on the fore, and three on the hind, legs; the belly white. Syst. nat. ed. xii. i. 80. n. 3.—Cuniculus javensis, or Javan Coney, having external ears, and a short tail; of a reddish colour mixed with dark brown. Briss.—Javan Cavy. Penn. hist. of quad. n. 238.

Inhabits Surinam and the hotter parts of South America.—This variety is as large as a Hare.

y. American Agouti.—3. y. C. Aguti americana.

Has a very short tail, and is clothed with coarse reddish fur.

Cuniculus americanus, or American Coney, having external ears and a fhort tail, covered with coarfe reddish hair. Briff. quad. 144. Seba, Muf. i. 67. t. 41. f. 2.

These three varieties inhabit South America and the West India islands.—They dwell in hollow trees, or burrow in the ground; they search for their food, which is entirely vegetable, during the day, and carry it home with them to their dwellings; when feeding they sit up on their hind legs, and carry their food with the fore paws to the mouth; their pace consists of leaps; they grow very fat, and are very good eating, their sless being white and savoury like that of a Rabbit; they breed frequently in the same year, the semale bringing three, sour, or sive young ones at a birth. The toes are connected at the root by a short membrane, being what is called Sub-palmated; the tail is very short, almost naked, and of a conical form.

The first variety, of which the distinguishing description is given in the character of the species, is about the fize of a Rabbit; the nose is long, with a divided upper lip; short, broad, rounded, ears; and black eyes; the legs are slender, almost naked, and of a black colour. The second variety has a small slender head, with prominent, naked, ears, which are rounded at the extremity. In the first, the belly is of a yellow colour, and, in the second, it is white; in both, the hinder parts are larger than the fore, and the legs are long. The third variety, which is here admitted on the authority of Gmelin, and the authors he has quoted, is either very little known, or is the same with the first variety. They all grunt like pigs, are very voracious, and, when fat, their slesh is white, like that of a Rabbit, but dry. What food they cannot immediately consume they hoard in their retreats, and eat at their leisure. Their pace is hopping, like that of a Hare or Rabbit; they beat the ground, like them, with their feet, when angry; and take shelter, when pursued, in their holes, or in hollow trees.

450

45 I

4. Aperea. -4. Cavia Aperea. 4.

Has no tail; the upper parts of the body are of a reddish ash colour, and the under parts white. Erxleb. mam. 348.

Cuniculus brafilienfis, or Brafilian Coney, having external ears and no tail, of a reddish ash colour. Briss. quad. 149. n. 8.—Aperea, of the Brasilians, called Veld Ratte, d'Ratte, or Bosch Ratte, by the Dutch. Marcgr. Brass. 223. Piso, Brass. 103. Raj. quad. 206. Jonst. quad. t. 63.—Aperea. Sm. Buff. viii. 274.—Cuniculus indicus femina, or Female Indian Coney. Aldrov. dig. 393.

Inhabits Brafil. - Lives in holes of the rocks, from which it is driven out, and taken, by means of little dogs: The ears are fhort; the fore paws have four, and the hind feet only three, toes; the colour of the back refembles that of our common Hares, and the animal runs in the fame manner; the upper lip is divided: The flesh is very good eating, and resembles that of the Rabbit, but is superior in flavour. The head and body are about a foot long; the fore feet are black, and naked, and the toes have short simall claws; of the three toes on the hind feet, the middle one is longer than the rest.

Black Aperea. - Cav. Aperea nigra.

Of a black colour mottled with tawny.

Rock Cavy. Penn. hift. of quad. n. 233.

. This animal, as described by Mr Pennant, is exactly similar, in every respect, except in colour, to the former; being black, mottled with tawny, on the back; the belly and throat white.

The Count de Buffon quotes Oviedo, Charlevoix, and Perrier de Montfrazier, for an animal, which he thinks is the fame with the Aperea, called *Cori* by these writers: It resembles the Rabbit and the Mole, has small ears, carried in a flatly reclined position, and no tail. Of this animal there are many varieties, with respect to colour: Some are entirely white; others entirely black; some totally red; some spotted with black and white; and others spotted with red and white. They eat herbage, and their flesh resembles that of our best Rabbits in taste and slavour; they are easily tamed, and never defile their place of abode. These animals, whether mere varieties of the species in question, or distinct species of the Cavy genus, are found in various parts of the West Indian islands, and on the continent of America. Hist de St Domingue, par le P. Charlev. i. 35. Hist des voy. par Duperrier de Montfraizier, 343. Garcilasso, Hist des Incas. ii. 252.

5. Cobaya. - 5. Cavia Cobaya. 5.

Has no tail; the whole body is white, usually variegated with irregular orange and black blotches. Schreber, iv. 617. t. claxiii.

Mus Porcellus, Pig-like Mouse, or Guinea Pig, having four toes on the fore and three on the hind feet; with no tail. Syst. nat. ed. xii. 79. n. 1. Mus. ad. Fr. 9. Amoen. acad. iv. 190. t. 2. It. Westgoth. 224.—Cuniculus indicus ecaudatus, or Tailless Indian Coney, having external ears, of a white or red colour, or variegated with both. Briss. quad. 147. n. 7. Gronov. zooph. i. 4. n. 16. Nieremb. hist. nat. 160. Aldrov. dig. 390. f. p. 391. Jonst. quad. 162. t. 63. 65.—Cuniculus indicus, s. C. guineensis, American, or Guinea Coney, having the hair and voice of a pig, E e 2

45.3

called Cavia Cobaya by the Brafilians. Marcgr. Braf. 224. Pifo, Braf. 102. Pallas, fpicil. zool. ii. 17. Raj. quad. 223.—Mus major, or Larger Moufe, having no tail, and variegated with tawny and white. Brown, Jam. 484.—Guinea-pig. Edw. av. t. 294. f. 2. Sm. Buff. iv. 296. pl. lxxxiv.—Reftlefs Cavy. Penn. hift. of quad. n. 232.

Inhabits Brafil.—The manners of this animal, in a wild state, are not mentioned by authors; in a domestic state in Europe, they are very restless, grunting continually, and running about in their apartment; they feed on bread, grain, fruits, and vegetables of all kinds, preferring parsley; eat frequently, and little at a time, in a hasty manner; Busson says they never drink, but Gmelin that they drink water; their voice is commonly a kind of grunt, like a young pig; when engaged in their amours, it resembles the chirp of a bird, and when hurt, they emit a sharp cry; they are extremely delicate, and impatient of cold or moisture; of tame and gentle, but stupid, dispositions; the semale breeds at two months old, bringing from sour or sive to ten or twelve young ones at a birth, though she has only two teats, and breeds very often during the year, as she goes but three weeks with young, and takes the male twelve or sisteen days after littering. This species seldom exceeds seven inches in length; it is variable in colour, as are almost all domesticated animals; the hair is harsh, and is somewhat longer on the neck than on the rest of the body; the body is thick and short, with a very short neck, short, broad, naked ears, and large, prominent, brownish eyes.

6. Patagonian Cavy. - Cavia magellanica.

Has hardly any tail; the fides of the nose are garnished with tusts of curly hair and long numerous whiskers. Penn. hist. of quad. n. 234. pl. xxxix.

Hare of Patagonia. Narborough, voy. 33. Byron, voy. 18.

Inhabits the country about Port Defire in Patagonia.—This species is of considerable size, sometimes weighing twenty-fix pounds: The ears are long and much dilated at the bottom; the upper lip is divided; each side of the nose is garnished with a curly tust of hair, and with numerous long whiskers; the tip of the nose is black; the face, back, and fore parts of the legs, are of an ash colour, mixed with rusty brown; the breast and sides are tawny, the rump is black; the belly is of a dirty white, and there is a white patch on the outside of each thigh; the legs are very long, having four toes before and three behind, armed with long, straight, black claws; the tail is only a short naked stump. This animal has the same manners with the rest of the genus; it sits on its hind legs, burrows in the ground, and seeds on vegetables. The sless wery white, and has an excellent slavour.

7. Capibara. - 6. Cavia Capybara. 6.

Has no tail; the hind feet have each three toes, which are connected by a web... Schreber, iv. 620. t. claxiv...

Sus hydrochaeris, having three toes on the hind feet, and no tail. Syft. nat. ed. xii. 103.—Sus maximus palustris, or Largest marsh Hog, called Cabiai, or Cabionara, by the natives. Barrere, Frequin. 160.—Hydrochoerus. Briss. quad. 117.—Cavia Capybara. Pallas, spic. 2001. ii. 18.—Capybara, of the Brasslians. Marcgr. Brass. 230. Piso, Brass. 99. Jonst. quad. t. 60. Raj. quad. 126.—Capivard. Froger, voy. 123.—River-hog. Waser, in Dampier's voy. iii. 400.—Cabiai. Sm. Buss.

vii. 64. pl. cciv.—Thick-nofed Tapir. Penn. Syn. 83. n. 61.—Cavy Capibara. Penn. hift. of quad. n. 231.

Inhabits the eaftern fide of South America, from the Isthmus of Darien to Brasil and Paraguay.-Lives in fenny woods near the large rivers, fuch as the Amazons, Oronoque, and Plata; fwims and dives remarkably well, and keeps for a long time under water; catches fish at night with great dexterity, and brings them on shore to eat them, which it does sitting on its hind legs, and holding its food in the fore paws like an ape; it likewife feeds on fruits and vegetables, especially the sugar cane, feeding only in the night, and does vast mischief in gardens: The Capibara keeps together in large herds, making a great noise, like the braying of affes; grows very fat, and the flesh is eaten, being tender, but has an oily and fifhy flavour: It is monogamous, that is, in breeding feafon, one male and one female live together, and the female only produces a fingle young one at a birth: It is eafily rendered tame, and becomes very familiar. This animal is rather more than two feet and a half long when full grown; the head and nofe are very large and thick, having finall, erect, rounded, naked ears, and large black eyes; the upper jaw is much longer than the under, with black, roundiffenostrils, a divided upper lip, and the nose is garnished with numerous black whiskers; in each jaw are two large ftrong fore-teeth, and eight grinders, which have the appearance of three finall flat pointed teeth on the furface of each; the legs are fhort, having the toes connected by a webb, and their extremities are guarded with a kind of hoofs instead of claws; the neck is short and thick; the hair is fhort, rough, and harsh, like bristles, being longest on the back, and most of them: are yellowish in the middle and black at both ends.

XXV. BEAVER.—24. CASTOR. 23.

Has two very strong cutting teeth in each jaw; and four grinders on each side in both jaws. The tail is long, flattened, and scaly. The skeleton has perfect clavicles, or collar bones. All the feet have sive toes.

1. Common Beaver .-- 1. Castor Fiber. 1.

The tail is broad, flat, almost oval, has no hair, and is covered with scales. Mus. ad. Fr. i. 9. Schreber, iv. 623. t. clxxv.

Caftor caftaneus, or Chefnut Beaver, with a flattened tail. Briff. quad. 133. Gefn. quad. 309. Do. aquat. 185. Rondel. aquat. 236. Aldrov. dig. 276. Jonft. quad. 147. t. 68. Raj. quad. 209.— Kattus. Arift. hift. an. viii. c. 5. Oppian, i. 398.—Fiber. Plin. viii. c. 30. Agric. an. fubt. 482. Belon. aquat. 25.—Bobr. Rzacziniki, Polon. 215.—Biber. Klein, quad. 91. Kramer, auftr. 325.—Bafwer, Biur. Faun. Suec. n. 27.—Caftor, Biévre, or Beaver. Sm. Buff. v. 21. pl. cii.—Caftor Beaver. Penn. hift. of quad. n. 251. Arct. 2001. n. 40.

Of a white colour, with a flat broad tail. Briff. quad. 135.

Inhabits the northern parts of Europe, Afia, and America.—The Beavers in general prefer the banks of rivers and lakes in woody countries; they feed mostly on the bark and boughs of trees, which they lay up in store, as winter provision, and, in summer, on leaves and fruits, sometimes on crabs and craw-sish, but they are not fond of sish: The trees which they chiefly prefer are Sassafras, Ash, Sweet-gum, Service, Willow, Poplar, and Magnolia, and the roots of Flag, and other aquatic plants. They walk slowly, but swim with great dexterity, and remain in their habitations during the day, sleep with great soundness, and are remarkably cleanly; their dispositions are exceedingly mild and gentle, and, when caught young, are very easily tamed: They pair, or form into monogamous societies of one male and one semale, in the winter season; the commerce of the sexes being in an erect posture: The semale has four teats, goes four months with young, and brings two, seldom three, and very rarely four, at a litter.

The head and body measure two and a half or three feet long; the tail is about half that length, and three inches broad; it is quite flat and thin horizontally; about the quarter of its length nearest the body is covered with hair, the rest is entirely naked of hair, and is covered with scales: All the feet have five toes; the fore soot is small, and its toes are divided, but the hind soot is large, and all its toes are connected by a web, or membrane; the head is thick and pyramidal, ending in a blunt nose; the ears are short and hid in the fur; the neck thick and short; the body is strongly made, and highly arched in the back; the body is covered with a double coat of fur, one of which is very soft, downy, and of an ash colour; the other is longer, straight, coarser, and of a chesnut colour, which is the general colour of the animal; in different parts of the world, however, this colour varies; being darker, in general, in proportion as we go farther north, even sometimes entirely black; sometimes of an uniform white colour, sometimes white spotted with ash colour, or white interspersed with reddish hairs; very rarely yellowish.

The falivary glands of this quadruped are very large, and, befides these, it is provided with other glands at the right side of the upper orifice of the stomach, which secrete a large quantity of sluid into the stomach through eighteen distinct excretory orifices. Near the anus and external parts, are placed two large glands, having a kind of cellular follicles, or spongy excretories, which pour out a sebaceous matter of a peculiar heavy odour: This is the medicinal substance named Castor, of which each individual, both male and semale, usually contains about two ounces: That produced by the Beavers of Russia is in much higher esteem than the American, and sells for a much greater price. For the anatomy of this animal, may be consulted, Wepfer, Eph. Nat. Cur. d. 1. a. 2. obs. 251. Sarrasin, act. Paris. 1704. p. 48. Act. Petrop. ii. 415.

So far Dr Gmelin; the fingular ingenuity of this quadruped will excuse a farther digression than could possibly be allowed, in general, in a work of this nature, but the subject is extremely curious, and, were it not well vouched, might pass for fable. As the peculiar manners of the Beaver require extensive forests and sequestered waters, they are only found in large numbers in the thinly peopled wastes of North America, and in the north-eastern extremity of Asiatic Russia, especially about the Konda, and other rivers which slow into the Oby. They there associate together for carrying on their wonderful operations, in which they surpass very far the instinct and ingenuity of all other quadrupeds. They begin to assemble, in June or July, from all quarters of the country, till they form a troop of two or three hundred individuals, near the banks of some river or brook: If the water they have chosen

chosen be broad, and never rises above its ordinary level, as in lakes, they make no dam or bank; but, as rivers and brooks are subject to rife and fall, they build a bank to form a pond, or piece of water, which shall always remain at the same height: This embankment traverses the river, from side to fide, like a fluice, and is often from eighty to a hundred feet long, by ten or twelve thick at the base. They generally choose a shallow part of the river for this purpose, or a brook running through a narrow flat vale; if they find a large tree on the bank, which can be made to fall in a proper direction, they begin by cutting it down to form the principal part of their work; and, though often thicker than the body of a man, they gnaw it through with their teeth in a very fhort time, and always contrive to make it fall exactly in the direction best sitted for their purpose; they next cut the branches from the trunk to make it lie level, and, while this is carrying on by one part of the community, others are employed in cutting down fmaller trees of various fizes, from that of a man's leg to the thickness of the thigh; these they dress and cut into proper lengths for stakes, then drag them to the edge of the river, and afterwards float them to the place where the work is carrying on. Some are employed to place feveral rows of these stakes upright in the line of the embankment, as piles to support the weight, while others, diving to the bottom of the water, scrape holes to receive their lower ends: These piles are interwoven with the fmaller branches to add to the general strength. This wooden frame is then filled up with earth, which they carry in their mouths, and with their fore feet, to the spot, where it is beat up into mortar with their feet and tails, and then rammed into all the intervals of the piles, which, towards the lower part of the river, are fixed in a perpendicular fituation, while those above, which have to support the immediate weight of the water, are fixed in an oblique direction with their upper extremities pointing downwards. Thus, by a patient continuance of their united and aftonishing labours, they complete their folid embankment, which is ten or twelve feet thick at the base, and gradually flopes to the top, where it is reduced to two or three feet. At the top of the bank they leave two or three floping shallow gaps, to allow the surface water to escape; and they contract or enlarge these according to the quantity of water in the river.

Having completed the embankment, their next operation is to conftruct cabins or houses, which they perform with the same wonderful ingenuity by which their dam was accomplished: These are built on piles, near the margin of their artificial pond, having two doors or openings, one for going to the land, and the other for getting into the water: The houses are either round or oval, being constructed, like the dam, of piles wattled with branches, and filled up with stones and prepared earth; the walls, which are two feet thick, rise perpendicular for several feet, and are then regularly arched, like the top of an oven. Sometimes the houses consist only of one storey, sometimes of three or four; and they are of various sizes, holding from two, to eighteen, twenty, and even thirty individuals; and each village, or community, contains from ten or twelve, to twenty, or even twenty-five, cabins: Each cabin has, in its neighbourhood, a magazine of bark and boughs of trees, for winter provision, kept constantly under water. The insides of their houses are neatly plastered with mortar, spread and beaten firmly with their tails, and each individual forms its bed of moss, or of the tender twigs of box or fir.

The females bring forth about the end of winter, and continue in the cabins, to nurse and protect their young, for some weeks, and then go abroad into the woods: The males leave the cabins as soon as spring commences, and, during summer, they only make occasional visits to their winter residence. Should no accident happen to their embankment, or houses, they continue dispersed through the whole summer, and assemble again in autumn, to repair any inconsiderable breaches, and to lay in their winter stores. If their dam or cabins have been destroyed, they collect their whole force early,

and fet about the necessary repairs, or new buildings, with the same union, and appearance of intellect, as at their first construction.

.456

y. Terrier Beaver .- Castor Fiber solitarius.

Besides these associated Beavers, there are others which, even in the same climates, live solitary in holes like Badgers; these are called Terriers, or Terrier Beavers, from their digging in the ground; they are easily distinguished from the rest by the dirtiness and ragged appearance of their coat, which is torn by rubbing on the earth of their holes. The Solitary Beavers are such as have either been deprived of a sufficient number of companions to carry on the labours of an establishment, by the destruction of their village; or they live in countries where mankind so much abound as to prevent the possibility of their finding sufficient quiet for carrying on their operations; some authors say, that part of them have been banished from among the affociated Beavers, on account of crimes or indolence. At any rate, it is certain, that the affociated Beavers are only found amid vast forests, while the folitary Beavers, besides being found in the same countries, are widely spread over many places where, at least in modern days, no affociations take place. The solitary Beaver was well known to the ancients, in the neighbourhood of the Black Sea, and was called Canis ponticus, but they had no knowledge of their affociations, and wonderful labours.

Beavers are found all over North America, Ruffia, and Siberia; they are very rare in Poland, Germany, France, Italy, Greece, and Egypt; there are none now in Britain, but fome Beavers heads have lately been dug out of peat-bogs in the north of Scotland. The fkins of this animal form a prodigious article of commerce, for the fake of the fine downy fur, of which the finest hats are made, and some other articles of manufacture. Above fifty-four thousand of them have been fold by the Hudfon's Bay Company at one fale, besides those that are imported from other parts of North America. Those of a black colour are preferred, and such as are taken during winter, especially if they have been worn for some time by the Indians, by which the long hairs fall off, leaving the fine downy fur perfectly free, and better sitted for every purpose of manufacture.

457

2. Chilese Beaver.—2. Castor buidobrius. 2.

The tail is compressed sidewise, broader in the middle, pointed, and hairy; the fore feet have the toes skirted with membrane, and the hind feet are webbed. Molina, hist. nat. Chil. 253.

Inhabits Chili.—Frequents the deepest parts of the lakes and rivers; is a sierce animal, which lives on fish and crabs, and is capable of staying a long while under water; it has no castor glands, neither does it imitate the wonderful architecture of the Common Beaver. The body of this species, from the tip of the nose to the rump, is about three feet long; the head is of a squared sigure, with a blunt snout, small eyes, and short rounded ears; the fur is composed of two orders of hairs, like that of the Beaver, the undermost, or down, being much siner than that of the Rabbit, and is held in great estimation by the surriers; the upper parts of the body are ash coloured, and the lower parts whitish: The semale brings two or three young ones each litter.—Perhaps this animal belongs rather to the tribe of Otters; but we must wait for farther information before it can be described with sufficient accuracy to afcertain its place in system.—T.

459

XXVI. MURINE QUADRUPEDS .- 25. MUS. 24.

The upper fore-teeth are wedge-shaped: In general there are three, seldom two, grinders on each side of each jaw. Is provided with complete clavicles, or collar bones.

The animals of this genus are in general very fwift, and climb trees or walls with great readinefs; and some of them swim very well. They mostly dwell in holes, some of them digging burrows in the ground, while others satisfy themselves with the shelter of chinks in rocks or walls, or understones, or any concealment that occurs by chance. They generally keep in their retreats all day, and go out during the night in quest of food, which is chiefly vegetables of different kinds; and, when feeding, they sit up, and carry their food to the mouth in their fore paws. The semales have mostly eight teats, and breed several times in the year, having numerous litters each time. The ears are mostly short and rounded; and, in general, the fore paws have four toes, with a warty substance, or callosity, in place of the thumb or sisth toe. Several of the species emigrateat particular seasons of the year.

The word Monfe, in the English language, being exclusively appropriated to some of the species of this genus, and Rat, which is employed by Mr Pennant as the generic term, being in the same predicament, it was judged better to use a compound term for the genus, than rigidly to adhere to the Latin term of Linnaeus. In imitation of the method adopted by Dr Gmelin and Mr Pennant, the genus is divided into several sections, to which, besides a kind of subgeneric character, collective names have been affigned, which, it is hoped, will be found very convenient for distinguishing the species of this very numerous genus.—T.

* BEAVER-RATS.-MYOCASTORES.

The tails of this division are flattened laterally at the ends.

1. Webbed Beaver-Rat.—1. M. Myocastor Corpus. 1.

The tail is thick, hairy, of a moderate length, and somewhat flattened; the hind seet are webbed. Molina, hist. nat. Chil. 255.

Inhabits Chili.—Frequents the water, and has a ftrong refemblance, both in colour and shape, to the Otter; but, in the number and arrangement of its teeth, it resembles the Murine animals, having only two grinders on each side of the fore-teeth in each jaw. All the feet have sive toes. The semale brings sive or six young ones at each litter.

2. Mufquash.—2. M. Myocastor zibethicus. 2.

The tail is long, flattened, and sharp pointed; the feet are not webbed. Schreber, iv. 638. t. clxxvi.

Cafter Cafter

Caftor zibethicus, or Civet Beaver. Syft. nat. ed. xii. i. 79.—Mus moschiferus canadensis, Canadian Musk Rat, or Musk Beaver, having the tail flattened sidewise, and all the toes separate. Briss. quad. 136.—Ondatra, or Canadian Musk Rat. Sm. Bust. v. 260. pl. cxxx.—Rat musqué. Sarrasin, act. Paris. 1725, p. 323. t. 11. f. 1. 2.—Charlev. nouv. Fr. v. 157. Lescarbot, nouv. Fr. 350.—Desmans Rotter. Kalm. It. iii. 19.—Musk Beaver. Penn. hist. of quad. n. 252. Arct. 2001. n. 41.—Musquash. Josselyn, voy. to New Engl. 86.—Mussascus. Smith, Virginia. 27.—Musk Rat. Lawson, Carolina. 120. Lever. Mus.

Inhabits North America.—This animal dwells near the fides of ftagnant waters, where it builds finall round huts, of herbs and reeds cemented together with clay, and covered with a dome or arched roof, having feveral pipes or galleries passing out at the lower part, through which it can go in quest of food. So far its manners resemble those of the Beavers; but its labours are greatly less. ingenious, and it does not lay up stores of provisions for winter. It feeds chiefly on herbs and fruits in fummer, and in winter mostly on roots, especially those of the Acorus and Nymphaea, or Sweetscented flag and Water lilly; and it sometimes feeds on shell-fish, especially concs, conchae. The males and females live together in pairs all fummer, and breed three or four times during that feafon; the female, which has fix teats on her belly, brings from three to fix young ones at a litter. It fwims and dives with great facility, but, when on the land, the gait is very unsteady. The nose is thick and blunt, having large eyes, and fhort ears almost hid in the fur; the toes of the hind feet, instead of webs, are fringed on each fide with strong white hairs, which are closely set; the tail is compressed fidewise, very thin at the edges, and is covered with small scales intermixed with a few scattered hairs; the body is about a foot in length, and weighs three pounds; the tail is nine inches long; the fur is very foft, of a dark reddish brown colour on the head and upper parts of the body, and afh colour, tinged with red, on the belly and breaft; near the anus are fome febaceous glands, which fecrete an oily fluid finelling ftrongly of musk, especially in summer. In the general form of the body and flat fealy tail this animal refembles the Beaver, with which its manners and economy have likewife a very firiking coincidence; in fize, however, and length of tail, it comes nearer to the Brown Rat; but in its general appearance, and in the short hairy ears, it resembles the Water Rata

** RATS AND MICE.—MURES.

Having round tails.

These Dr Gmelin separates into two divisions, distinguished from each other by the circumstance of their tails being naked or hairy. The former he names Myosuri, and the latter Cunicularii.

† Having naked round tails. - Myofuri.

1. Piloris.—3. Mus Pilorides. 3.

Has a cylindrical tail which is blunt at the end, and covered with scales.

Of this there are two varieties mentioned in authors.

461

462

463

GLIRES.

a. White Piloris.—M. Pilorides albidus.

The body is of an uniform whitish colour. Pallas, glir. 91. n. 38.

Mus albus zeylonicus, or White Ceylon Moufe, with a very long tail. Briff. quad. ed. Bat. 122. n. 8.

β. Black Piloris .- M. Pilorides fulvus.

The upper parts of the body are black or tawny; the under parts white. Penn. hift. of quad. n. 240.

Caftor, or Beaver, having a finall round tail. Brown's Jamaica, 484.—Piloris, or Rat musqué. Rochefort, Antil. 140. Du Tertre, hist. gen. des Antilles, ii. 302. Sm. Buff. v. 261.—Musk Cavy. Penn. synops. of quad. n. 183.

The former variety of this fpecies inhabits Ceylon, and the latter the West India islands.—They both burrow in the ground, sometimes insest houses like the Rat, and have a strong slavour of musk. They are nearly of the same size with a Rabbit, and the tail is about sour inches long; the fore feet have sour toes, with an excrescence in place of the inner toe, or thumb, and the hind feet have sive toes; the ears are large and naked.

2. Caraco.—4. Mus Caraco. 4.

The tail is long, fealy, and somewhat blunt; the body of a brown-grey colour; and the hind feet very slightly webbed. Pallas, glir. 91. n. 39. Nov. sp. fasc. i. 335. t. xxiii. Schreber, iv. 643. t. clxxvii.

Mus caraco. Penn. hist. of quad. n. 299. B.

Inhabits the eaftern parts of Siberia, and probably Chinese Tartary and the northern provinces of China.—Burrows, like the Rabbit, near the banks of rivers, swims remarkably well, and even insests houses. The body and head are six inches in length, and the tail rather more than four inches and a half: The whole body weighs six or seven ounces: The head is long and narrow, having the eyes placed very near the ears; the fore sect have sour toes, and an excrescence in place of a thumb, and the hind seet have each sive toes, which are connected at their roots by a small fold of the skin; the colour of the upper parts of the body is deep brown mixed with ash colour, the belly a whitish ash colour, and the legs dirty white.

3. American Rat.—Mus americanus.

The tail is long, naked, and scaly; the head is long-shaped, with a narrow pointed nose, the upper jaw being much longer than the lower; the ears are large and naked. Penn. hist. of quad. n. 299. Arct. zool. n. 58. Lever. Mus.

Inhabits north America.—This animal is larger than the Black, and finaller than the Brown Rat; it is of a deep brown colour, inclining to ash colour on the belly, and the fur is coarse and harsh. It is probably this species which is said, Kalm's trav. ii. 48. to live among the stones and clests of rocks,

in the Blue mountains of Virginia, at a distance from the peopled part of the country, which comes out only at night, and makes a terrible noise.

46.4 4. Brown Rat.—5. Mus decumanus. 6.

Has a long, naked, scaly tail; the upper parts of the body are of a light brown, mixed with tawny and ash colour, the lower parts dirty white. Pallas, glir. 91. n. 40. Schreber, iv. 645. t. clxxviii.

Mus norwegicus, or Norwegian Rat, with a long tail, and of a reddish colour, having four toes on the fore feet, with a small claw in place of the fifth, or thumb. Erxleb. mam. 381. n. 1.—Mus silvestris, or Wild Rat, with a very long tail, of a dilute reddish brown colour, the belly whitish. Briff. quad. 170. n. 3.—Mus aquaticus. Gesn. aquat. 732.—Surmulot, or Brown Rat. Sm. Buff. iv. 336. pl. xcvi. Penn. hist. of quad. n. 298. Arct. zool. n. 57.—Norway Rat. Brit. zool. i. n. 26.—Bandicote. Purchas, ii. 1170.

Inhabits India and Persia, and has only been known in Europe in the present century.—Dwells in burrows which it digs in the banks of rivers, and frequents towns, aqueducts, drains, necessaries, stables, barns, gardens, fields, and houses; it swims and dives with great dexterity; feeds on vegetables, grain, fruits, and even destroys poultry; is hunted greedily by Cats, Dogs, and Ferrets. This animal lays up stores of acorns, beach-mast, and other provisions, in its holes, in which the males remain during winter, except in fine weather, without hybernating, but the semales and their young live mostly in barns and out-houses in that season: It often emigrates from one place to another in great companies. The semale produces three times in the year, having twelve or sisteen, even eighteen or nineteen, at a litter. The body, of a full grown individual, is near nine inches long; the tail, which consists of two hundred rings, is seven and a half inches in length; and the whole body usually weighs from eight ounces to a pound; the feet are naked, and of a dirty slesh colour; the toes are very distinct; the whiskers are longer than the head; and the eyes are large, black, and prominent. This species is probably the Mus caspicus of Ælian, which he says was nearly as large as the Ichneumon, and made periodical visits in vast multitudes to the countries which border on the Caspian, swimming boldly over the rivers, holding by each others tails. Ælian. hist. cap. xvii.

5. Black Rat. - 6. Mus Rattus. 12.

Has a very long fealy tail; the upper parts of the body are deep black grey, and the under parts ash coloured. Pallas, glir. 93. n. 41. Schreber, iv. 647. t. clxxix.

Mus Rattus, or Common Rat, with a long and almost naked tail; having four toes, and a small claw in place of the fifth, on each fore foot, and five on the hind feet. Syst. nat. ed. xii. 83. Faun. Suec. ii. 12. n. 33. Mull. prodr. 5. n. 31. Briss. quad. 168. n. 1. Gronov. zooph. 4. n. 18.— Mus domesticus major, or Larger domestic Mouse, usually named Rat. Gesn. quad. 731. Raj. quad. 217.—Rattus. Aldrov. dig. 415.—Glis. Jonst. quad. t. 60.—Sorex. Husnagel, archetyp. 3. t. iii.—Rat. Sm. Buff. iv. 275. pl. lxxi. f. 1.—Black Rat. Penn. hist. of quad. n. 297. Arct. zool. n. 56.—Common Rat. Brit. zool. i. n. 27.

Inhabits India, Persia, and Europe, except its most northern parts; from hence it has been carried to Africa and America, and is frequent in Otaheite, though less common in the other islands of the fouthern

fouthern ocean.—Of late years this species has greatly diminished in Europe, and is even in many places extirpated, in consequence of the introduction of the Brown species, which destroys the Black Rats. The Black Rat is a cautious and sierce animal, which eats very voraciously of almost every thing that comes in its way, and drinks little; it is a great pest in houses, as it attacks every kind of provision, and gnaws the furniture: It even preys on its own species: It is preyed on, in its turn, by owls, weasels, and cats, though many of these last will not venture to attack them. The semale has ten teats, breeds several times every year, and brings sive or six young ones at a birth. The head and body measure about seven inches long, and the tail, which is very small, and has two hundred and sifty distinct rings, is about an inch longer than the body; the whole body weighs near six ounces; the fur is of a deep iron grey colour, almost black; the belly ash coloured; the feet and legs are dusky, and almost naked; sometimes the upper parts of the body are dusky or ash coloured; rarely spotted with white, or altogether white, with red eyes.

466

β. Small Rat. - Mus Rattus minor.

In the neighbourhood of the lower parts of the river Volga there is a small variety of this species, found in the deserts, which does not weigh above fix or seven drams. Pallas, nov. sp. Fasc. i. 93.

467

6. Common Mouse.—7. Mus Musculus. 13.

The tail is very long, scaly, and almost naked; the fore feet have each four, and the hind feet five toes; the fifth, or thumb, having no claw. Faun. Suec. 34.

Mouse, with a very long scaly tail; the upper parts of the body being tawny, and the lower parts whitish or ash coloured. Pallas, glir. 95. n. 43. Schreber, iv. 654. t. clxxxi. Faun. Suec. i. 11. n. 31. Mus. ad. Fr. i. 9. Briss. quad. 169. n. 2. Gronov. zooph. i. 4. n. 19. Brown, Jamaic. 484.—Mus domesticus minor, or Lesser domestic Mouse. Aldrov. dig. 417. Raj. quad. 219. Sloan, Jamaic. ii. 330. Jonst. quad. 165. t. 66. Hufnagel, archetyp. i. t. 3. 10. p. 2. t. 8. p. 4. t. 2.—Souris, or Mouse. Sm. Bust. iv. 282. pl. lxxxi. f. 2.—Common Mouse. Penn. hist. of quad. n. 301. Brit. zool. i. n. 30. Arct. zool. n. 60.

Inhabits all parts of the world.—This little animal is hardly three inches and a half long; it lives almost entirely in houses, and follows mankind for the sake of their provisions; it feeds on almost every thing, such as grain, bread, cheese, butter, oil, and every kind of food used by mankind, and drinks little; it is of mild and gentle manners, exceedingly timid, and very quick in all its motions; is exceedingly prolific, breeds frequently, and produces five or six at each litter; is preyed on by cats, rats, weasels, owls, and hedge-hogs; may be destroyed likewise by means of Elder and Black Hellebore.

468

8. Several varieties of Mice, as to colour, are found; some being altogether black, some yellowish, some spotted with white, some of a white colour with ash coloured spots, and the most beautiful of all, and the least common, are entirely white, with red eyes; but, as these agree in every other circumstance, it is unnecessary to describe them more at large.

470

471

7. Field Mouse.—8. Mus sylvaticus. 17.

GLIRES.

Has a long fealy tail; the upper parts of the body are of a yellowish brown colour, the breast yellow, and the belly white. Pallas, glir. 94. n. 4. Schreber, iv. 651. t. elxxx.

Mouse, with the tail of a middle length, having four toes on each foot before, and five behind : the body of a yellowish brown colour, with a few dusky hairs, and the belly whitish. Syst. nat. ed. xii. i. 84. Faun. Suec. ii. 12. n. 36.—Mouse, with a long tail, the upper parts of the body being of a yellowish brown colour, and the under parts whitish ash coloured. Briff. quad. 174. n. o.-Mus campestris major, or Larger field Mouse, having a very long tail, of a dusky colour, and reddish on the sides. Briss. quad. 171. n. 4.—Mus agrestis minor, or Lesser field Mouse. Gesn. quad. 733.-Mus domesticus medius, or Middle domestic Mouse. Raj. quad. 218.-Mulot, or Long-tailed field Mouse. Sm. Buff. iv. 285. pl. lxxxii. f. 1.—Field Mouse. Penn. hift. of quad. n. 302.—Long-tailed field Moufe. BRIT. 2001. i. n. 28. Arct. 2001. n. 61.

Inhabits Europe.—Is found in woods, fields, gardens, and shrubberies; and, during winter, comes into barns, ftables, and out-houses: It feeds on grain of all kinds, nuts, acorns, beech mast, and other feeds, of which it makes great magazines in its holes under ground; likewife on other fpecies of this genus, fmall birds, and even on its own species. Hogs are often led by the smell to their hoards, and do great mischief in the fields by digging them up. It is preyed on by hawks, foxes, poleeats, and martins. This species is rather larger than the Common Mouse, being near four and a half inches long; and the tail, which is blackish above, white underneath, and slightly covered with hair, is of the fame length with the body; the feet and legs are of a pure white colour. The female makes a neft for her young, either in a tuft of grafs, or immediately below the furface of the ground, and produces from feven to ten young ones at a birth.

B. White Field Mouse.—Mus sylvaticus albus.

Is entirely white, with red eyes.

This variety is but rarely met with,

8. Harvest Mouse. - Mus messorius.

Has a long scaly tail; the upper parts of the body are of a full rusty brown colour, the belly is white, and a straight line along the sides divides the two colours. Penn. hift. of quad. n. 303.

Less Long-tailed field Mouse. Penn. Brit. 2001. ii. app. 498. Syst. nat. ed. Gmel. i. 129. n. 17. β.—Harvest Rat. Penn. syn. of quad. n. 231.

Inhabits Hampshire. This species, or perhaps rather variety of the former, is less than the preceding, being only two inches and a half long from the nofe to the rump, and the tail, which is fomewhat hairy, is two inches in length: It weighs only about a quarter of an ounce. It never enters houses, but is very numerous in the fields during harvest, and is often earried in great numbers among the sheaves into the barn-yard. The female makes a round nest of blades of eorn, for her young, between

473

474

between the straws of standing corn, and brings about eight at a birth. It burrows very deep in the ground, forms a warm bed of dried grafs, and takes shelter in its hole during winter.

9. Rustic Mouse. - 9. Mus agrarius. 7.

The tail is long and fealy; the body is of a yellowish colour, with a dusky or black line along the back. Pallas, It. i. 454. Do. Glir. 95. n. 44. and p. 341. t. 24. A. Schreber, iv. 658. t. clxxxii.

Mus rubeus, or Reddish Mouse. Schwenkfeldt, An. Siles. 114. S. G. Gmel. It. i. 151. t. 29. f. 2.

Inhabits Ruffia, from the Tanais to the Jenifei; in Silefia, and rarely in Germany. - This species is inigratory, and wanders about often in vaft multitudes, doing prodigious harm to the corn: It is about three inches long, and fcarcely weighs half an ounce; the tail is only about half the length of the body and head; the belly and legs are white; the head is oblong, with a sharp nose, and small ears lined with fur; the hind legs have each a dufky circle just above the foot. It burrows in the ground, forming a long gallery just below the furface, and a little elevated, leading to a larger chamber, in which confiderable quantities of grain and feeds are frored up for winter provision.

B. American Rustic Mouse.—Mus agrarius americanus.

Has a broad stripe along the middle of the back of a mixed dusky and ferruginous colour; the cheeks, space beneath the ears, and sides, are orange coloured; and all the under parts of the body, the legs and feet, are pure white. Penn. hift. of quad. n. 302. B.

Inhabits New-York.—The cars are large, open, and naked; the whifkers very long, fome of the hairs being white and others black; the hinder legs are fomewhat longer than the fore; the tail is dufky above, and whitish beneath.

10. Minute Mouse.—10. Mus minutus. 8.

The tail is long and fealy; the upper parts of the body are of a deep tawny or ferruginous colour, and the under parts whitish. Pallas, It. i. 454. n. 4. Do. Glir. 96. n. 45. and p. 345. t. 24. β. Schreber, iv. 660. t. clxxxiii.

Inhabits Russia. Is about half the fize of the Common Mouse, the tail being scarcely two inches long; the female is finaller than the male, and lefs elegant in her colours; the nofe is fomewhat sharp; the face is dusky, with some whiteness at the corners of the mouth; the ears are small, and almost hid in the fur; the feet are grey. This species is found in the corn fields and in barns, and is plentiful in birch woods; it feems to wander about, without any fixed places for its neft; and much greater numbers of males are found than of females.

478

475 β. Yellow Minute Mouse.—Mus minutus flavus.

Is elegantly yellowish coloured on the upper parts, and pure white on the under parts, of the body. Syst. nat. ed. Gmel. i. p. 130.

Inhabits Siberia. - This variety is exceedingly beautiful.

476 II. Shrew-like Mouse.—II. Mus foricinus. 10.

The tail is of a middle length and somewhat hairy; the snout is lengthened; the ears are rounded and hairy; the upper parts of the body are of a yellowish grey colour, and the lower parts whitish. Schreber, iv. 661. t. clxxxiii. B.

Inhabits the neighbourhod of Strafburgh in Germany.—This species was discovered by Professor Herman: It is scarcely two inches and a half long; the snout has seven rows of whiskers; the fore feet have four toes each, and a tubercle in place of a thumb, the hind feet five toes, all armed with very small claws; the tail is all over of a mixed yellowish and ash colour, being rather more hairy on its under surface.

12. Wandering Mouse.—12. Mus vagus. 14.

The tail is very long and almost naked; the colour of the upper parts of the body is a pale ash, waved with black, and having a black line along the middle of the back; the ears are large, oval, naked, and plaited. Pallas, glir. 90. n. 36. and p. 327. t. 22. f. 2. Schreber, iv. 663. t. clxxxiv. f. 2.

Mus fubtilis, or Cunning Mouse. Pallas, It. ii. 705. n. 11. a.—Wandering Mouse. Penn. hist. of quad. n. 308.

Inhabits the deferts of Tartary, and in Siberia, as high as the Ural, Irtish, Oby, and Jenisei.—Is frequent in the birch woods, and lives in fiffures of rocks, under stones, and in hollows of trees; feeding chiefly on feeds, and likewise on small animals of the same genus. It wanders about in great flocks, migrating from one place to another in the night; hybernates during winter, and is of a very chilly nature, so as even to become torpid and fall asleep, in a round form, in the cold nights of the month of June. It is between two and three inches long, the tail being almost three, and weighs two drams; the legs are very slender, and the feet whitish, having four toes, and a conical excressence, before, and five behind, all armed with long claws; the tail is longer than the body, very slender, prehensile at the end, of an ash colour above and whitish below; the head is oblong, with a blunt nose reddish at the tip, having yellow fore-teeth, and only two grinders on each side in the upper jaw. The female has eight teats.

13. Beech Mouse.—13. Mus betulinus. 15.

Has a very long and almost naked tail; the upper parts of the body are tawny, with a black line along the back, the under parts whitish, or pale ash colour; the ears bristly at the ends. Pallas, Glir. 90. n. 35. and p. 332. t. 22. f. 1. Schreber, iv. 664. t. clxxxiv. f. 1.

480

481

Mus fubtilis, or Cunning Moufe. Pallas, It. ii. 705. n. 11. 8.—Beech Moufe. Penn. hift. of quad. n. 309.

Inhabits the birch woods in the defert plains of Ischim and Baraba, and between the Oby and Jenisei,—Lives solitarily, frequenting the hollows of decayed trees; runs up trees readily, and sastens on their branches with its tail, and by means of its slender singers, or toes, it can sasten even to a very sincoth surface. This species has considerable resemblance to the Wandering Mouse, but is somewhat smaller; the nose is sharp, with a red tip; the ears are small, oval, plaited, brown, and bristly at the ends; the limbs are very slender, with long, and very separable toes; the tail is slender, and much longer than the body, being brown above and whitish underneath. The Beech Mouse is very delicate, and soon grows torpid in cold weather; its voice is very weak.

14. Dwarf Mouse.—14. Mus pumilio. 18.

The tail is of a middle length, and almost naked; the general colour is a brownish ash, with the fore-head and nape of the neck black; and having four black lines along the back, meeting at the tail. Sparrman, act. Stockholm, 1784, 239. t. vi.

Dwarf Moufe. Sparrman, voy. to Cape of Good Hope, Eng. ed. 1785, app. to vol. ii. 347. t. vii.

Inhabits the forests of Sitsicamma near Slangen river, two hundred hours journey east from the Cape of Good Hope.—This species is scarcely two inches long, the tail is about two-thirds of the length of the body, and the whole animal, even when steeped many months in spirits, hardly weighs four scruples. The body is somewhat flattened; the regions of the eyes, the ears, and the nose, are of a paler colour than the rest of the body; all the seet have sive toes, the thumb or inner toe of the fore seet being very small, but distinctly surnished with a claw; the legs and seet are strongly made; the tail is almost naked, and of a pale ash colour.

15. Striped Mouse. - 15. Mus striatus. 19.

The tail is long, and almost naked; the body is elegantly marked with twelve rows of small white spots. Pallas, Glir. 90. n. 37.

Mouse, with a long and almost naked tail; having four toes before and five behind; the body marked with rows of spots. Syst. nat. ed. xii. i. 84. Mus. ad. Fr. i. 10.—Mus orientalis, or Oriental Mouse, with a long tail, of a reddish colour, and marked on the back with rows of pearl coloured spots. Briss. quad. 175. n. 10. Seba, Mus. ii. 22. t. 21. f. 2—Oriental Mouse. Penn. hist. of quad. n. 304. Pallas, Glir. n. 97. Nat. misc. pl. 73.

Inhabits India.—This species is about half the size of the Common Mouse, and the tail is of the same length with the body; the upper parts of the body are of a brownish grey colour, the lower parts whitish; the ears are short, round, and naked.

β. Cheroso. - Mus moschatus.

In the fame country, and in Guinea, is another very small species of Mouse, not sufficiently described, which smalls of musk. It is called by the Portuguese, who say its bite is venomous, *Cheroso*. Penn. hist. of quad. p. 446. Boullaye la Gouz. 256. Barbot, Guinea. 214.

Vol. I. G g

482 16. Barbary Mouse.—16. Mus barbarus. 20.

The tail is of a middle length; the body is brown, with ten whitish stripes; has three-toes before and five behind. Syst. nat. ed. xii. T. i. P. 2. add.

Barbary Mouse. Penn. hist. of quad. n. 305.

Inhabits Barbary.—This species is smaller than the Common Mouse; the under parts of the body are whitish; the tail is naked, annulated, and as long as the body; on the fore paws are the rudiments of a thumb or inner toe.—Dr Gmelin suspects that this animal should be referred to the Cavy genus.

483 17. Mexican Mouse.—Mus mexicanus.

Has a large reddish spot on each side of the belly. Penn. hist. of quad. n. 306.

Mus mexicanus maculatus, or Spotted Mexican Moufe. Seba, Muf. i. 74. t. xlv. f. 5.

Inhabits Mexico.—Is of a whitish colour, mixed with red, and having a large reddish spot on each side of the belly; the head is whitish.

†† With round hairy tails.—Cunicularii.

18. Virginian Mouse.—Mus virginianus.

The tail is universally hairy, very thick at the base, decreases gradually, and becomes very long and slender. Penn hist of quad n. 307. Arct. 2001. n. 624.

Mus fylvestris americanus albus, or White American Field Mouse. Seba, Mus. i. 76. t. xlvii. f. 4.

Inhabits Virginia.—The nose is pointed and black; the ears pointed; the limbs very slender; the colour is univerfally white; the tail tapers gradually from the rump, so as hardly to be distinguished from that at its origin.

485 19. Rock Mouse.—17. Mus saxatilis. 21.

The tail is hairy, and of a middle length; the ears are longer than the fur; the fore paws have three toes and the rudiments of a fourth. Pallas, Clir. 80. n. 19. and p. 255... t. 23. B. Schreber, iv. 667. t. clxxxv.

Rock Mouse. Penn. hist. of quad. n. 312.

Inhabits the eaftern parts of Siberia, beyond lake Baikal, and in the deferts of Mongul Tartary.—Burrows in the fiffures of rocks, forming a winding oblique paffage, which afterwards branches out into feveral others pointing downwards, and ending in a chamber, in which is a bed, or neft, made of foft herbs. This fpecies is about four inches long, and weighs nearly nine drams; the tail is an inch and a half in length, of a brown colour above, and white beneath; the head is oblong, with a longifh nofe, and oval, downy ears, brown at the edges; the limbs are ftrong; and the tail is thinly covered with hair; the upper parts of the body are of a brown colour, flightly mixed with yellowifh, or grey;

the fides are rather inclined to the latter colour; the belly is of a light ash or whitish; the feet and legs are blackish; the snout is dusky, and surrounded with a stender white ring. This species feeds chiefly on the seeds of the Astragalus.

486

20. Blue Moufe.—18. Mus cyanus. 22.

The tail is of a middle length and somewhat hairy; the upper parts of the body are of a blue colour, and the under parts whitish. Molina, hist. nat. Chil. 266.

Inhabits Chili in South America.—In fize and general appearance this species resembles the Field Mouse, except in colour; the cars are rounded; and the animal is extremely timid: It forms large burrows, which are divided into several chambers, and into which it collects great stores of bulbous roots; for these the natives search with great care.

487

21. Water Rat.—19. Mus amphibius. 11.

The tail is of a middle length; the ears scarcely appear above the fur; the feet have three toes on each, and the rudiments of a fourth. Pallas, Glir. 80. n. 20. Schreber, iv. 668. t. clxxxvi.

Mouse, or Rat, with a long hairy tail, having the hind feet webbed *. Syst. nat. ed. xii. 82. Faun. Suec. ii. 12. n. 32.—Mouse, having the tail of a middle length; the fur is blackish; the fore feet are each provided with four toes, and a little claw in place of the fifth. Erxleb. mam. 386. n. 3.—Mus aquaticus, or Water Rat, with a long tail; the upper parts of the body being covered with black hair, mixed yellowish, and the under parts ash coloured. Briss. quad. 175. n. 11.—Mus aquaticus major, Rattus aquaticus, Larger Water Mouse, or Water Rat. Raj. quad. 217.—Mus agrestis major, or Larger Field Mouse. Gesn. quad. 733. Raj. quad. 219.—Water Rat. Sm. Buff. iv. 290. pl. lxxxii. f. 2. Penn. hist. of quad. n. 300. Arct. 2001. n. 59.

488

β. Meadow Water Rat.—19. β. Mus amphibius terrestris.

Has a somewhat hairy tail of a middle length; having three toes, and the rudiments of a sourth on the fore seet, and sive behind; the ears being shorter than the sur †. Syst. nat. ed. xii. 82. n. 10. Faun. Suec. ii. 11. n. 31.

Mus agreftis brachyurus, or Short-tailed Field Moufe, having a large head. Raj. quad. 218.

489

y. Marsh Water Rat.—19. y. Mus amphibius paludosus.

Of a black colour, with a hairy tail of a middle length; having three toes, and the rudiments of a fourth, on each fore foot, and five behind; the ears are shorter than the fur. Mant. pl. 2. 522.

G g 2

وع

* This last circumstance is a mistake copied by the great Linnaeus after Willoughby and Ray.

† Mr Pennant refers this variety to the Mus arvalis, or Meadow Mouse, to be afterwards described, but it is retained here on the authority of Dr Gmelin.—T.

236

A. Black Water Rat .- 19. S. Mus amphibius niger.

Of a uniform black colour.

491

e. Spotted Water Rat.—19. e. Mus amphibius maculatus.

Has a large white spot on the back, and a white line on the breast.

Inhabits the whole of Europe, the northern parts of Afia as far as the icy fea, and North America.— The feveral varieties of this species dwell chiefly near waters, forming burrows in their steep banks, about ponds and wet ditches; likewife in marfhy places, meadows, and gardens; they feed on roots; herbs, and shrubs, and on frogs, craw-fish, insects, small fish, and the fry of larger ones. The flesh of these animals is reckoned very delicate by some of the more savage inhabitants of the Russian empire, and is eaten by the French, along with that of the Otter, during Lent. The female is finaller than the male, and has a greater yellowness of colour; she has eight teats, four of which are placed on the breaft, and four on the belly. They procreate about the end of winter, at which time they fmell strongly of musk, and produce as far as eight young ones in the month of April. The nose is thick and blunt, with short ears, which are hid in the fur, small eyes, and yellow teeth; Mr Pennant fays, that all the feet, both before and behind, have five toes, the inner toe of the fore feet being very fmall; the fur is black, mixed with fome ferruginous hairs; the tail is covered with short black hair, and is whitish at the tip; the body and head are both thick, short, and compact, and measure seven. inches long; the tail is from three to five inches in length; the ears are of an oval shape, and bristly at the edges; the whole animal, according to Mr Pennant, weighs nine ounces, though, according to Dr Gmelin, it only weighs from two to three. This species is very fierce, and bites bitterly; it swims: and dives with great facility, and lives much in the water,

492

22. Garlic Mouse. - 20. Mus alliarius. 23.

The tail is short; the ears are rather large, and somewhat hairy; the body is assistant loured on its upper parts, and whitish underneath. Pallas, Glir. 80. n. 18. and 252. t. xiv. f., C. Schreber, iv. 671. t. clxxxvii.

Garlic Moufe. Penn. hift. of quad. n. 315.

Inhabits Siberia, about the rivers Jenifei, Kan, Lena, and Angara.—Feeds on the roots of garlic, of which it lays up large stores in subterraneous burrows. The ears are large, open, and naked; the tail is hairy, being of a white colour, marked on its upper part with a dusky line; the back is ash coloured, mixed with longer hairs tipped with dusky grey; the sides are pale ash coloured, and the belly, breast, and feet are white; the fore feet have each four toes; the body and head measure a little more than four inches; the tail scarce an inch and a half: This species resembles the Meadow Mouse, so be afterwards described; but, in the form of the head, the whiskers, and the ears, it comes nearer to the Common Mouse, though greatly larger.

493

23. Red Mouse -21. Mus rutilus. 24.

Has a short tail; the ears are longer than the fur, which is tawny red on the back, light

496

light grey and yellow on the sides, and whitish on the belly. Pallas, Glir. 79. n. 17. and p. 246. t. xiv. B. Schreber, iv. 672. t. clxxxviii.

Red Mouse. Penn. hist. of quad. n. 314. Arct. zool. i. 136. B.

Inhabits Siberia, from the Oby as far as Kamtschatka, and within the Arctic circle.—The head and body measure scarce four inches, and the tail a little more than one; the face and nose are very bristly; the tail is hairy, yellowish on its upper part, with a dusky line along its whole length, and white below; the ears are large, open, and naked, being tipt with a rusty coloured down: This species has considerable affinity to the Meadow Mouse, but the legs and feet are more hairy, and white; it lives in holes and hollows of trees; feeding on grain, and sometimes on animals of the same genus, likewite eats almost of every thing which comes in its way, and is fond of sless; it comes often into, houses and barns; is very lively, and runs about, even on the snow, the whole winter.

B. Leffer Red Mouse.—Mus rutilus minor.

A fmaller variety of this species has been found about Casan, and in the botanical garden at Goet-tingen in Germany.

495 24. Gregarious Mouse.—22. Mus gregalis. 25.

Has a short tail; the ears are longer than the fur; the fore feet have each three toes and the rudiments of a fourth; the fur is dark ash coloured on the upper parts, and whitish below. Pallas, Glir. 79. n. 16. and 238. Schreber, iv. 674. t. clxxxix.

Gregarious Mouse. Penn. hist. of quad. n. 323.

Inhabits the eastern parts of Siberia.—Dwells in arid places, forming burrows, with numerous openings, directly under the fod; these lead to chambers, in which it lays up large stores of roots, especially those of the Lilium pomponii and garlic: This species is less than the next, or Economic Mouse, and longer than the Social; the semale being near five inches long, and the male about an inch shorter; the nose is blunt, with a small mouth, and naked ears which appear above the sur; the hair on the upper parts of the body is black at the roots and tips, and ferruginous in the middle; the throat, belly, legs, and feet, are whitish; the tail is covered with thin white hairs, being tipt with black and ash colour: It eats sitting up.

25. Economic Mouse.—23. Mus oeconomus. 26.

The tail is short; the ears are naked and hid in the fur; the colour is tawny; and the fore feet have each three toes with the rudiments of a fourth. Pallas, Glir. 79. n. 15. and p. 225. t. xiv. A. and It. iii. 692. n. 4. Schreber, iv. 675. t. cxc.

Œconomic Mouse. Penn. hist. of quad. n. 313. Arct. 200l. i. 134. A. Georgi, It. 161.—Tegoulichitck. Descr. of Kamtschat. Eng. ed. 104.

Inhabits Siberia, from the river Irtish eastwards, in Kamtschatka, and under the Arctic circle.— The eyes are small; the ears naked, and almost hid in the fur; the teeth are very tawny; the colour-

of the fur is black and yellow intimately mixed, the back dufky, and the throat, breaft, and belly hoary; the under parts of the whole fur are dark brown; the ends of the feet are dufky; the head and body measure four inches and a quarter; the tail rather more than an inch; the general form refembles that of the Meadow Mouse, but the body is rather longer, and the belly larger. This fpecies dwell mostly in damp soils, forming burrows, with many chambers and numerous entrances, immediately under the turf. In these it lays up magazines of various vegetable food, chiefly bulbous roots; and lays them out in funny days to dry, and never touches them but in winter, living all fummer on berries and other vegetables. The Kamtfchatkans hold these animals in great regard, and never deftroy their hoards; they take away only part, and leave fome Caviare, or fome other fubstance to support them in its stead. This species sometimes emigrates in vast multitudes, keeping a ftraight course even over rivers, and is much infested on their march by birds, fish, wild hogs, foxes, and other wild beafts. They begin their march from about the river Pengin in fpring, and, about the middle of July, reach Ochotska and Judoma, at a vast distance; and return in October. The Kamtfchatkans are much alarmed at their migrations, which portend rainy weather and a bad chace; and, when they find them lying weak and fpent with fatigue after croffing a river, give them every affiftance in their power. The Tschutski are not so much attached to this animal, and make use both of their winter stores and of their carcasses as food.

497

β. Laland Mouse.—Mus glareolus.

Dr Gmelin is at a loss whether the animal described by O. F. Muller, under the name of *Mus glareolus*, as found in the isle of Laland, and figured by Schreber, iv. t. cxc. B. should be referred to this species; but he gives no description by which the circumstance may be ascertained.

498

26. Woolly Mouse. - 24. Mus laniger. 27.

The tail is of a middle length; the fore feet have each four, and the hind feet five toes; the fur is woolly, and of an ash colour. Molina, hist. nat. Chil. 267.

Inhabits the north parts of Chili, and in Peru.—This animal burrows in the earth, is very docile and cleanly, and is eafily tamed; it lives on bulbous roots, especially onions; the semale breeds twice a year, and brings five or fix young ones at each litter. It is about fix inches long, with a short nose, and small sharp pointed ears; the fur is very long and exceedingly fine, almost like the threads of a spider's web, and was formerly employed as the very finest species of wool by the Peruvians.

499

27. Meadow Mouse.—25. Mus arvalis. 16.

The tail is short; the ears scarce reach beyond the fur; the fore feet have each three toes and the rudiments of a fourth; the fur is dusky. Pallas, Glir. 79. n. 14. Schreber, iv. 680. t. exci.

Mus gregarius, or Gregarious Mouse, having a somewhat hairy tail one third the length of the body; the body is mixed brown and black on the upper parts, the lower parts white. Syst. nat. ed. xii. i. 85.—Mus terrestris, or Land Mouse, with the tail of a middle length; the ears shorter than the fur; the upper parts of the body rusty brown, and the lower parts ash coloured. Erxleb.

50I

502

mam. 395. n. 7.—Mus campeftris minor, or Smaller Field Moufe, having a fhort tail; the upper parts of the body mixed blackifh and dirty yellow, the under parts afh colour. Briff. quad. 176. n. 12.—Campagnol, or Short-tailed Field Moufe. Sm. Buff. iv. 293. pl. lxxxiii. Gefn. quad. 733. Penn. hift. of quad. n. 322. Briff. 2001. i. n. 31. Arct. 2001. n. 65.

Inhabits all Europe, Siberia, Hircania, and Newfoundland.—Dwells in bufhy places, corn-fields, meadows, and gardens, chiefly near waters; lives on grain, nuts, acorns, and walnuts, which it collects into fubterraneous burrows; is preyed on by foxes, polecats, weafels, cats, and field mice: The female produces feveral times a year, and brings from eight to twelve young ones at a birth. This fpecies is from three to fix inches long, the female being much longer than the male, and the tail is little more than an inch; the head is large, with a blunt nofe, fhort ears, almost hid in the fur, and prominent eyes; the upper parts of the body are of a mixed ferruginous and black colour; the belly is deep ash, and the legs and feet dusky; the tail is terminated by a small tust of hair.

β. Blackish Meadow Mouse.—Mus arvalis nigricans.

Is of a blackish brown colour on the upper parts of the body.

Dr Gmelin is uncertain, if the animal described by Linnaeus under the name of Mus agressis, with a short tail, of blackish brown colour on the upper parts, and ash colour on the belly, should be considered as a variety of this species. Faun. Suec. ed. 2. p. ii. n. 30.—In the plate quoted from Busson are three individuals of this species; the two lower sigures are of a lighter colour, and seem to be the sormer variety; but the upper one is almost black, and is probably the variety mentioned above from the Fauna of Linnaeus.

28. Social Mouse. - 26. Mus socialis. 28.

Has a very short tail; the ears are naked, rounded, and very short; the fore seet have each three toes and the rudiments of a fourth; the upper parts of the body are light grey; the sides, shoulders, and belly, are white. Pallas, Glir. 77. n. 13. and p. 218. t. xiii. B. Schreber, iv. 682. t. cxcii.

Social Moufe. Penn. hist. of quad. n. 321. Pallas, It. ii. 705. n. 10.—Mus alius, et Mus microurous. S. G. Gmel. It. ii. 173. t. ii. and iii. 500. t. 57. f. 2.

Inhabits the fandy deferts between the Volga and Ural, near the Caspian sea, and in the mountains of Hircania.—This species lives in pairs, or in families consisting of a male and a semale with their young ones; and of these families vast numbers live together, the whole country being covered with little hills of earth thrown out of their burrows. They feed mostly on tulip roots, and are preyed on by weasels, polecats, crows, and otters. The head is thick, with a blunt dusky nose; the limbs are short and strongly made; the head and body are somewhat more than three inches long, the tail only half an inch, and very stender. This animal swarms chiefly in spring, and rarely appears in autumn, at which season it is supposed to migrate, or to take shelter among the bushes.

29. Rambling Moufe.—27. Mus lagurus. 29.

Has hardly any tail; the ears are shorter than the fur; the fore feet have each three:

504

toes and the rudiments of a fourth; the upper parts of the body are ash coloured mixed with dusky, and having a black line along the back. Pallas, Glir. 77. n. 12- and p. 210. t. xiii. A. Schreber, iv. 684. t. exciii.

Hare-tailed Mouse. Penn. hist. of quad. n. 320. Arct. zool. n. 66.—Dshilkis-Zizchan, Mus vagus, or Rambling Mouse. Pallas, It. ii. 704.

Inhabits the deferts near the rivers Ural, Irtish, and Jenisei.—Each individual forms a round nest of dried grass in a burrow, having an oblique and a perpendicular entrance. They feed chiefly on the dwarf iris, but eat all kinds of grain, and devour other species of this genus, and one another; they sleep very much, in a rolled up form, and are very slow in their motions, like the Marmot, but do not become torpid in winter: This species is very salacious; the males sight together for the females, and the conqueror generally devours the vanquished; the semale smells of musk when in season, produces several times in the year, and brings sive or six young ones at a birth: They migrate in great troops, whence the name of rambling mice, which is given them by the Tartars. The head is long, with rough and swelling lips; the limbs are short and slender; the tail is so short, as scarcely to appear beyond the fur, which is very sull and soft; the upper parts of the body are ash coloured, mixed with dusky, and having a dusky line along the middle of the back; the belly and feet are pale ash colour; the length of the body and head is between three and sour inches; the tail of the male is somewhat longer than that of the semale.

30. Collared Mouse.—28. Mus torquatus. 30.

Has a very short tail; the ears are shorter than the fur; the feet have each five toes; the fur is ferruginous, varied with grey, yellow, and dusky, having a whitish collar round the neck, and a dark line along the back. Pallas, Glir. 77. n. ii. and p. 206. t. xi. B. Schreber, iv. 686. t. exciv.

Ringed Mouse. Penn. hist. of quad. n. 318. Arct. zool. i. 137. E.

Inhabits the northern parts of the Uralian mountains, and the marshes near the frozen ocean.— Feeds chiefly on the Lichen rangiferinus, Lichen nivalis, and Polygonus viviparus; these articles of food are stored up in burrows, having numerous passages, which it digs under the turfy soil. This species is migratory, and resembles the next in its manners. The nose is blunt; the legs are short and strong, and the feet are covered on the soles with fur, having very strong hooked claws on the toes; the fur on the whole body is very sine, of a ferruginous colour on the upper parts of the body, mixed with grey and yellow, sometimes pale grey, and undulated with dusky rust colour; from the ears down each cheek is a bed of dusky, then a ring or collar of white round the neck, and behind that another dusky patch; the head and body are a little more than three inches long; the tail is dusky, hardly one inch long, and has a tust of hard bristles at the end, which is blunt.

31. Lemming .- 29. Mus Lemmus. 5.

Has a very short tail; the ears are shorter than the fur; the feet have each five toes; the body is variegated with tawny and black on the upper parts, and is white underneath. Pallas, Clir. 77: n. 10. and p. 186. t. xii. A. B. Schreber, iv. 687. t. exev. a. \beta.

Mouse, of a tawny colour varied with black; having a very short tail, and sive toes on each foot. Syst. nat. ed. xii. i. 80. Faun. Suec. ii. n. 20. Act. Stockh. 1740, 75. f. 45.—Mus Lemmus. Fabric. It. Norweg. 191.—Mus norwegicus, Norwegian Mouse, or Lemming. Raj. quad. 327. Worm. Mus. 321.—Cuniculus norwegicus, or Norwegian Coney. Briss. quad. 145. n. 5.—Lemmus. Gesn. quad. 731. Ol. Mag. Sept. 617.—Leem. Aldrov. dig. 436. Jonst. quad. 168.—Lemming. Pontop. Norw: ii. 58. Sm. Buss. vii. 316.—Lemmus Rat. Penn. hist. of quad. n. 317. Arct. 2001. i. 136. C.—Lapland Marmot. Penn. syn. of quad. 274. n. 202. t. 25. f. 2. Worm. hist. anim. Norweg.—Its anatomy. Bartholin. cent. ii. p. 301.

Inhabits the mountains of Norway and Lapland.—They feed on grass, the catkins of the dwarf birch, the Lichen rangiferinus, or Rein-deer Liverwort, and other fuch vegetable productions; in fummer they form shallow burrows under the turf, and in winter they make similar long passages under the fnow in quest of food; for, as they do not lay up magazines, and do not hybernate, they are obliged to feek provisions in the rigorous winter of these northern climes. When they foresee, by fome wonderful instinct of nature, the approach of a very severe winter, they leave their northern haunts in autumn, and emigrate in immense multitudes into the lower parts of Norway and Sweden, keeping a straight line in spite of every obstacle, moving mostly in the night time, and making prodigious havock of every vegetable they are able to reach. In this journey, which takes place at uncertain intervals, though generally about every ten years, they are destroyed by eagles, hawks, foxes, and other animals of prey, and numbers are drowned in passing rivers, or lakes, which never interrupt their course, even proceeding on into the sea; from all these concurring causes very sew live to return to their native mountains, and thus a check is put to their ravages, as it takes years to repair their numbers fufficiently for another invafion. They are bold and fierce, fo as even to attack men and animals, if they meet them in their course, and bite so hard as to allow themselves to be carried a confiderable way, hanging by their teeth to a stick, before they will quit their hold.

The head is pointed, having very long whitkers, fix of the hairs on each fide being longer and fironger than the reft; the mouth is finall, having two very long fore-teeth in each jaw, and the upper lip is divided; the eyes are finall and black; the ears are finall, rounded, and reclined backwards; the fore legs are very fhort, having four flender hairy toes on each, and a long fharp claw, like a cock's fpur, in place of the fifth or thumb; the hind feet have five toes; the fkin is very thin, and the upper parts of the body are black and tawny, disposed in irregular blotches; the belly is white, tinged with yellow: The female breeds feveral times a year, producing five or fix young ones at a birth.

B. Siberian Lemming .- Mus Lemmus sibiricus.

Of a smaller size, and more uniform tawny colour.

505

Inhabits the northern parts of the Uralian chain of mountains, and on the river Oby.—This species or variety of the Lemming is considerably smaller than the one just described: The colour is less diversified, being chiefly tawny; and it differs greatly in manners; for it lays up in its burrows large stores of provisions to serve during winter. From this latter circumstance, it is probable that the Siberian Lemming, though this is not mentioned, does not migrate like the former, or Norwegian kind.

Vol. I. Hh

507

508

509

32. Labradore Mouse. - 30. Mus hudsonius. 31.

GLIRES.

The tail is very short; has no external ears; the feet have each five toes; the back is marked with a dusky stripe, and each side with a yellowish tawny line; the breast and belly are whitish. Pallas, Glir. 209. Schreber, iv. 691. t. exevi.

Hudson's Mouse. Penn. hist. of quad. n. 319. Arct. zool. n. 64.

Inhabits the country of Labradore.—The muzzle is furnished with slender brown whiskers; the fur is very fost and fine; the upper parts are of an ash colour, tinged with tawny on the back, having a dusky line along the spine, and a pale tawny stripe along each side; the belly is of a pale ash colour; the limbs are very short, and the fore feet are strongly made, having the two middle claws of the male very strong and divided at the end; the claws of the skins which, from being smaller, are supposed to belong to the semales, are small; the tail is very short, and is terminated with a tust of stiff bristles; the body and head measure about five inches.

33. Lena Mouse.—Mus lenae.

Of a white colour: Has a short tail thickly covered with coarse hair; short rounded ears; five toes before and four behind. Penn. Arct. 2001. i. 137. D.

Mus Gmelini. Pall. nov. fp. an. 195.

Inhabits the borders of the Icy Sea, efpecially where the Lena falls into it.—The body and head measure a little more than three inches, the tail not quite one; the body, which is thick, broad, and equal, is covered with longish fur, which is ash coloured at the roots, and white at the ends; the cheeks are ash coloured, and the chin dusky: The claws on the fore feet are white, and very strong; those on the hind feet are much weaker. This species appears and disappears suddenly; it feeds on the roots of different mosses, and is preyed on by the Arctic foxes; it probably extends to the river Jenisei, as in that district two forts of Mice are found, one, in all probability this, is entirely white, and the other, probably the Lemming, is black, yellow, and white.

34. Kamtschatka Mouse. - Mus Tschelag.

Of a small size, but not sufficiently described. Penn. Arct. 2001. i. 138. F.

Tschelagatchitch. Descr. of Kamtschatka, 392.

Inhabits Kamtschatka.—Frequents the houses, and is so bold that it takes away any thing and eats it quietly at the door.

*** HAMSTERS.-CRICETI*.

Having pouches in the cheeks, and fhort hairy tails.

1. Siberian Hamster. - 32. M. Cricetus Acredula. 33.

Has large, oblong, oval, furrowed ears; the upper parts of the body are of a yellowish and

^{*} Called Mures buccati, in the Systema Naturae.

and brown ash colour, the under parts hoary. Pallas, Glir. 86. n. 22. and p. 257. t. xviii. A. Schreber, iv. 695. t. excvii.

243

Mus migratorius, or Migrating Mouse. Pallas, It. ii. 703. n. 5.—Yaik Mouse. Penn. hist. of quad. n. 326.

Inhabits the district of Orenburgh in Siberia, near the Yaik or Ural.—The snout is thick, with a blunt nose, and very sleshy lips, the upper one being deeply divided; the upper fore-teeth are small, yellow, convex, and truncated, the lower ones are pointed and slender; the eyes are large; the tail is very short and eylindrical, of a brown colour above, and white beneath; the legs are white; the body and head measure about four inches, and the tail not quite one. This animal lives in burrows, which it quits only in the night to seek for food: The Cossacks say that it migrates out of the deserts in vast multitudes; but Dr Pallas suspects this to be a mistake.

2. German Hamster .- 33. M. Cricetus germanicus. 9.

510

SII

Has large rounded ears; the head and back are of a reddish brown colour, the belly, breast, and upper part of the fore legs, black; the sides are reddish, and marked with three white spots. Penn. hist. of quad. n. 324. pl. xlvii. f. 1.

Mus Cricetus, or Hamster, having cheek pouches; the lower parts of the body extremely black, with bare patches on the fides. Pallas, Glir. 83. n. 21. Schreber, iv. 695. t. excviii. A. Syst. natzed. Gmel. 137. n. 9.—Mouse with a short tail; rounded ears; the lower parts very black; and the sides reddish, with three white spots. Syst. nat. ed. xii. i. 82.—Glis, s. Marmota argentoratensis, or Strasbourgh Marmot, of a reddish ash colour on the back, having a black belly, and three white spots on the sides. Briss. quad. 166.—Glis Cricetus. Klein, quad. 56. Agric. subt. 486. Gesn. quad. 738. Raj. quad. 221. Clauder, E. N. C. dec. iii. n. 5. p. 376.—Porcellus frumentarius. Schweneks. ther. 118.—Hamster. Sm. Buff. vii. 178. pl. ccxx. Meyer, Thire. fol. 1748. Norib. t. 81. 82. S. G. Gmelin, It. i. 33. t. 6. Sulzer, Vers. Naturg. des Hamsters, 1773, Gotha.—German Marmot. Penn. Syn. n. 200.—Hamster Rat. Penn. hist. of quad. n. 324.

β. Black German Hamster .- 33. β. M. Cricetus german. niger.

Is entirely black, except the tip of the nose, edges of the ears, and the feet, which are white. Penn. hist. of quad. p. 462. pl. xlvi. f. 2.

Cricetus niger, or Black Hamster. Lepechin, It. i. 192. t. 15. Pallas, It. i. 128. Georgi, It. ii. 851. Sulzer, Naturg. des Hamst. fig. in titulo. Schreber, iv. t. exeviii. B.

Inhabits Siberia, the fouth of Russia, Poland, Selavonia, Hungary, Silesia, Bohemia, and Germany beyond the Rhine, especially in Thuringia.—Each individual forms a subterraneous burrow, consisting of several chambers, with two holes or entrances leading from the surface; one of these is perpendicular, and the other, in which the exerements are lodged, is oblique; the holes of the semales have several perpendicular openings, and each young one of her family is lodged in a separate chamber: The chambers which are set apart for the lodging of themselves and young are lined with straw or grass; the rest are larger, and are appropriated for containing magazines of grain, beans, pease, lintseed, vetches, and other such seeds, each in a separate cell, sometimes a hundred pounds weight in the

Hh 2 whole t

whole: The chambers of the older animals are dug feveral feet deep, while those of the younger ones felcom exceed one foot under the furface. During fummer the Hamsters live on herbs, fruits, and roots, and, in autumn, are very destructive to grain; for, besides eating large quantities, they carry it off to their magazine in their check-pouches, which are fo stuffed that they feem ready to burst, each being able to contain about an ounce and a half at once; they are particularly fond of places where liquorice grows, and feed much on its feeds; they feldom eat flesh or devour other animals. Except during the time of courtship, the males and females have no intercourse; but at that season the female defends the male with great fury, though she shows very little affection for her young; when two males meet about one female, they fight bitterly, and the female forms a short connection with the conqueror; at all other times they reject fociety with each other, and even fight, kill, and devour their own species. Their pace is very flow, and they do not climb; but they dig with vast quickness, and will graw through a piece of wood, an inch and a half thick, in a very short time. They are preyed on by polecats, weafels, cats, dogs, foxes, and birds of prey, and are profcribed by man, on account of their devastations; in one year, about eleven thousand skins, in a second, fifty-four thousand, and in a third year, eighty thousand, were brought to the town-house of Gotha, to receive a reward for their destruction; the peafants even search for their stores, on account of the provisions they contain, and their fkins form an article of trade; they are likewife destroyed by means of a paste formed of honey and flour boiled up with arfenic, or powdered hellebore. At the approach of winter, they retire into their burrows, flutting up the entry with great care, and feed on their collected provisions, till the weather grows fevere, when they become torpid. The first commerce between the males and females is about the end of April; but they breed two or three times a year, the females, which have eight teats, go about a month with young, and produce, when young, three or four, afterwards from fix to nine, and even fixteen or eighteen, at a litter.

The males are about ten inches long, and the tail about three, but the females are fcarcely more than half fo large; the former weigh from twelve to fixteen ounces, while the latter feldom exceed from four to fix ounces: The head is thick, with a blunt nofe, and numerous whifkers, large full black eyes, and large, rounded, open ears; ufually the head and back are of a reddish brown colour, with red cheeks; the fides are paler, with three white spots; the breast, upper part of the fore legs, and belly are black; the feet are large and white, having four toes, and a claw instead of a fifth toe, on the fore feet, and five toes on each hind foot: The colour varies; sometimes, though rarely, they are found entirely white, or yellowish, or white with black spots on the back; sometimes the snout is white, and the fore-head ash coloured, or the lower jaw of a white colour.

3. Sand Hamster .- 34. M. Cricetus arenarius. 34.

The upper parts of the body are hoary; the fides, belly, limbs, and tail, are pure white. Pallas, Glir. 36. n. 24. and p. 265. t. xvi. A. and It. ii. 704. n. 7. Schreber, iv. 707. t. cxcix.

Sand Rat. Penn. hift. of quad. n. 328.

512

Inhabits the fandy deferts of Baraba, on the river Irtifh, in Siberia.—The head is large, with a longifh faout, and a fharp nofe, having very long whifkers, very large pouches, and great oval brownish ears; the body is fhort and thick, being about four inches long, and the tail rather more than one; the fur is very foft; the fore feet have only four toes each, the hind feet five, all the claws being white. This animal is very fierce and untameable, it forms burrows, like the preceding species, lining

514

515

lining the neft with the Elymas arenarius and other dried plants; it is chiefly active at night, and is fond of leguminous plants, particularly the Aftragalus tragacanthoides.

4. Rice Hamster .- 35. M. Cricetus phaeus. 35.

The upper parts of the body are of a hoary ash colour, with long dusky hairs along the back; the sides whitish; the circumference of the mouth, breast, belly, and extremities of the limbs, are pure white. Pallas, Glir. 86. n. 23. and p. 261. t. xv. A. Schreber, iv. 708. t. cc.

Zarizyn Rat. Penn. hist. of quad. n. 327.

Inhabits about Zarizyn in the deferts of Siberia, and in the mountains of the north of Persia.—This species does vast mischief in the rice fields: It is about three inches and a half long, and the tail not quite one; the fore-head is much elevated; the edges of the eye-lids are black; the ears are large, oval, almost naked, and projecting, being clothed slightly with a dusky fur; the tail has a dusky line along its upper part. This animal is often caught in traps during winter, near stables and other out-houses, and never becomes torpid.

5. Songar Hamster.—36. M. Cricetus songarus. 36.

The upper parts of the body are of a grey ash colour, marked with a black line along the back; the sides of the head and body are varied with large white and dark brown spots; the feet and belly are white. Pallas, Glir. 86. n. 25. and p. 269. t. xvi. B. and It. ii. 703. n. 6. Schreber, iv. 709. t. cci.

Songar Rat. Penn. hift. of quad. n. 329.

Inhabits the defert of Baraba, near the Irtish, in Siberia.—This species likewise digs chambers for the reception of provisions: It is about three inches long, with a very short, thick, blunt, and hairy tail, little more than one-third of an inch in length; the head is thick, with a blunt nose, and the whiskers are shorter than the head; the ears are oval, very thin, long, and covered slightly with a hoary down; each of the feet has four toes, and a knob, without any claw, in place of the fifth; this animal is not so fierce as some other species of the Hamsters, but may be tamed when caught young, and grows very familiar.

6. Baraba Hamster.—37. M. Cricetus Furunculus. 37.

The upper parts of the body are of a cinereous yellow, with a black streak on the back; the under parts dirty white. Pallas, Glir. 86. n. 26. Schreber, iv. 710. t. ccii.

Baraba Rat. Penn. hift. of quad. n. 330.—Mus barabensis. Pallas, It. ii. 704. n. 8.—Mus furunculus, or Thievish Rat. Pall. nov. sp. fasc. i. 273. t. xv. A.—Furunculus myodes. Messerschmid, Mus. Petrop. 343. n. 109.

Inhabits Dauria, Siberia in the defert of Baraba, towards the Ob, between the Onon and Argum, and in the Chinese empire near lake Dalai.—This species is about three inches long, and the tail near

one;

one; it refembles the Sand Hamster a good deal; the nose is sharp, with large, broad ears, of a dusky colour, edged with white; the tail is small and pointed, of a white colour, and is marked above with a dusky line; the feet have four toes, and a knob furnished with a claw instead of the thumb or sist toe. It lives chiefly on the seeds of the Astragalus and Atriplex; but its manners are unknown.

**** MOLE-RATS.—MYOTALPÆ

Have no external ears, very small eyes, and a very short tail, or none. They live entirely under ground, like the Moles *.

516

1. Russian Mole-Rat. - 38. M. Myotalpa talpina. 38.

Of a dusky colour: Has a very short tail, and no external ears; the fore-teeth are long, extended from the mouth, and wedge-shaped; the feet have five toes; the fore feet are very strong, flat, and formed for digging. Pallas, Glir. 77. n. 9. and p. 176. t. xi. A. and Nov. com. Petrop. xiv. 568. t. 21. f. 3. Schreber, iv. 711. t. cciii.

Spalax minor, or Leffer Spalax. Erxleb: mam. 379.—Talpine Mole-Rat. Penn. hift. of quad. n. 335.

517

β. Black Russian Mole-Rat.—M. Myotalpa talpina nigra.

Is entirely black. Penn. hift. of quad. p. 475.

Inhabits the plains of Ruffia and Western Siberia, scarcely extending beyond the Irtish, and never beyond the Oby.—This animal is fond of a turfy soil, avoiding sandy or muddy places, and digs holes like those of the Hamster, which it lines with soft grafs, and fills with bulbous roots, throwing up hillocks of earth all along the tracks; each individual has its separate burrow: It works only in the night, and seldom comes out except in the season of love; feeds chiefly on the roots of Tulips, tuberose Lathyrus, and tuberose Phlomis. Its sight is very weak in the day time: It is about four inches long, and resembles the Water Rat; has a large short head, with a thick snout, and truncated nose; the eyes are very small, and hid in the fur; the aperture of the ears is only bounded by a small rim behind; the body is thick and short; the tail scarce appears beyond the fur; the head, nose, back, and sides, are dusky, the cheeks greyish, the chin white, and the belly and limbs whitish. It procreates about the beginning of April, at which time it smells strongly of musk; and the females produce three or four young at a litter.

518

2. Cape Mole-Rat. - 39. M. Myotalpa capensis. 39.

Of a dark brown colour tinged yellowish, with the fore part of the face, orbits, and regions of the ears, white: Has a very short tail, and no external ears; the fore-teeth are wedge-like; and all the feet have five toes. Pallas, Gliri 76. n. 8. and p. 172. t. vii. Schreber, iv. 713. t. cciv.

Cape

^{*} The animals of this subdivision of the genus are named Mures subterranei, by Dr Gmelin; but the word Myotalpa is preferred in this edition, as being better adapted for the purpose of a subgenus.—T.

520

Cape Hamster. Kolb. Vorg. d. gut. Hofn. 158.—Mole of the Cape of Good Hope. Sm. Bust. iv. 315. pl. lxxxviii.—Cape Mole-Rat. Penn. hist. of quad. n. 334. pl. xlvii. f. 3.

Inhabits the Cape of Good Hope.—This species infests the gardens: It is about five inches and a half long, having a round head, thick neck, and blunt snout; the hair of the body is pretty long, of a dark brown colour, tipt with yellow; the whole region of the mouth and nose, the circumference of the eyes, a longitudinal spot on each car, and on the nape of the neck, are white; the lower parts of the body and limbs are pale; and the short tail, or stump, is covered with long yellowish white hairs; the inner toe of each fore foot is very short, the two next are very long, the fourth shorter, and the outer toe is very short.

3. African Mole-Rat. - 40. M. Myotalpa maritima. 40.

Of a pale brownish ash colour mixed with yellowish on the upper parts, the sides and under parts paler: Has a very short tail, and no external ears; and all the feet have five toes. Schreber, iv. 715. t. cciv. B.

Zand-moll. Mason, Phil. Trans. lxvi. P. i. 304.—Cape Mole. La Caille journ. 299.—Taupe des dunes, or Mole of the sand hills. Allamand's cd. of Buff. supl. v. 24. t. x.—African Mole-Rat. Penn. hist. of quad. n. 333.

Inhabits the fand hills adjacent to the fea at the Cape of Good Hope.—This fpecies refembles the former, but is much larger, measuring twelve or thirteen inches long, and the head is more lengthened; it forms burrows in the fand, like those of Rabbits, which it digs with surprising celerity; it runs flowly, is very fierce, and bites severely; it feeds chiefly on the roots of Ixiae, Antholyzae, Gladioli, and Irides. The head is large, with a black nose, flattened and wrinkled at the end; the eyes are small, and almost hid in the fur; the lower fore-teeth are long, and it is faid the animal possesses the power of moving them farther out at pleasure; the fore feet have four toes with very long claws, and a distinct thumb with a short claw, the soles being naked and provided with two large tubercles; the hind feet are large, very long, and naked, having five toes with short claws, and is rested on as far as the heel; the tail is flattened, covered on its upper and under surfaces with short hair, and fringed at the edges with very long bristles horizontally disposed. Is reckoned good eating.

4. Daurian Mole-Rat. —41. M. Myotalpa Aspalax. 41.

Of a dirty yellow ash colour on the upper parts, and whitish ash on the lower: Has a very short tail, and no external ears; the feet have each five toes, the claws of the fore feet being very long. Pallas, Glir. 76. and 165. t. x. and It. iii. 692. Schreber, iv. 716. t. ccv.

Mus myofpalax. Laxmann, Sibir. brief. 75. Act. Stockh. 1773.—Daurian Mole-Rat. Penn. hift. of quad. n. 332. pl. xlvii. f. 2.

Inhabits Dauria, and in Siberia beyond the Irtish between the Alei and Tscharysch rivers.—This animal digs very long burrows in the black turfy soil or firm sand, throwing up numerous hillocks, which extend over a considerable surface; it works both with its feet and nose, and sometimes with

its teeth. It feeds chiefly on the roots of the Lilium pomponii, Erythronium, and other bulbous plants. This species varies in fize, those of Dauria being near nine inches long, while those farther east are scarcely fix. The head is thick and flat, with a short shout and blunt nose; the eyes are very small and deep feated; the body is short and flattened, having very strong limbs, especially the fore feet, on which the claws are long, strong, and slightly bent; the fur is dusky at the roots, and some individuals have a white line on the hinder part of the head; the tail is short, round, blunt, and almost naked.

5. Blind Mole Rat. - 42. M. Myotalpa Typhlus. 42.

Of a reddish ash colour: Has no tail, external ears, or apparent eyes; the feet have each five toes; and the fore-teeth are broad. Pallas, Glir. 76. n. 6. and p. 154. t. viii. Schreber, iv. 718. t. ccvi.

Mouse, of a reddish ash colour, having no tail or external ears, and very minute eyes. Lepechin, It. i. 238. and Nov. com. Petrop. xiv. 504. t. 15. f. 1.—Spalax micropthalmus, or with very small eyes. Guldenstaedt, Nov. com. Petrop. xiv. 409. t. 8. 9.—Spalax major. Erxleb. mam. 377.—Slepez. S. G. Gmelin, It. i. 131. t. 22.—Blind Mole-Rat. Penn. hist. of quad. n. 331. pl. xlvii. f. 1.—Podolian Marmot. Penn. Synops. in. 204.—Zemni. Sm. Buff. viii. 232.

Inhabits the fouthern parts of Ruffia, from Poland to the Volga. - Each individual forms burrows under the turfy foil, of very confiderable extent, with many lateral paffages, and throws out the earth at different diffances, in large hillocks, fometimes two yards in circumference, and proportionally high. This species works with its snout, feet, rump, and even with its teeth, and digs with great celerity, especially when frightened, in which case it digs directly downwards. When irritated, it fnorts, gnashes its teeth, raises its head in a menacing posture, and bites with great severity. It feeds on roots, especially those of the bulbous Chaerophyllum. It is entirely blind, though it has the rudiments of very small eyes which are covered over with a continuation of the skin; but it possesses the senses of touch and hearing in a very eminent degree, to make up for the loss of sight. The body and head measure between seven and eight inches, and weigh eight ounces; the head is very large, broad, and flattened, with a blunt nofe, covered at the end with a thick, naked, black ikin; the mouth is continually gaping, with fhort wrinkled fore-teeth above, and very long ones below, likewife furrowed or wrinkled, none of them being hid by the lips; the body is cylindrical, and covered with fhort, foft, and close fet fur, which is of a dusky colour at the bottom, with the ends of a rufty brown mixed with afh colour; the space about the mouth and nose are white; the legs are very fhort, having five toes on each foot armed with fhort claws, and flightly connected by a fhort membrane at their bases. It breeds in spring and summer; and the semale, which has two teats, brings from two to four young ones at a birth.—This is perhaps the only species of warm blooded animal which is deprived by nature of the fense of feeing, supposing that there is no mistake in the information of travellers respecting its utter blindness.—T.

XXVII. MARMOT.-25. ARCTOMYS.

Has two wedge-like cutting teeth in each jaw; five grinders above, and four below, on each fide. Has collar bones.

This genus is very properly separated from that of Mus by Dr Gmelin, in imitation of Mr Pennant. Most, if not all, of the species hybernate, or grow torpid, during winter: They go about in quest of food, and carry on their other necessary avocations, during the day time, feeding on roots and grain; they are capable of climbing, and dig burrows in the earth for their habitations: Their heads are generally round and convex, having either very short ears or none; their bodies are thick, with short hairy tails; the fore feet have each four toes and a very short thumb, or sisth inner toe, and the hind feet have each five toes. The caccum, or blind gut, is generally very large.

1. Common Marmot.—1. Arctomys Marmota. 1.

522

Has short round ears; the upper parts of the body are dusky brown, and the lower parts reddish. Schreber, iv. 722. t. ccvii.

Mus Marmota, with a round convex head, having short external ears, a short hairy tail, and sour toes on each fore foot; the upper parts of the body dusky brown, and the lower parts reddish. Palla, Glir. 74. n. 1.—Having a short hairy tail, somewhat hairy ears, and swelling cheeks. Systemat. ed. xii. 81. n. 7.—Mus alpinus, or Alpine Mouse. Gesn. quad. 743. f. p. 744. Aldrov. dig. 445. Raj. quad. 221. Jonst. quad. t. 67. Agric. Subt. 484. Plinii, viii. c. 37.—Mus montanus, or Mountain Mouse. Mathiol. comm. 368.—Glis alpinus, s. Marmota alpina, of a mixed dusky brown and yellowish. Briss. quad. 165. n. 6.—Glis Marmota, of a brownish ash colour on the upper parts of the body, and yellowish ash below. Erxleb. mam. 358. n. 1. Klein. quad. 56. Hist. mur. 31p. 230.—Marmotte. Sm. Buss. iv. 339. pl. xcvii.—Alpine Marmot. Penn. hist. of quad. n. 258.

Inhabits the highest summits of the Alps and Pyrenean mountains, in dry places where there are no trees.—Feeds on infects, roots, and vegetables, particularly on tender plants of the order of graffes; but, when tamed, eats almost of every thing, and is very fond of milk, which it laps, making a murmuring noise; it drinks very little. The Alpine Marmots live together in societies of five, nine, twelve, or fourteen, are fond of basking in the fun, and place a centinel, which gives a whistle on perceiving the approach of danger, when they instantly retire into their holes, or, if they cannot escape, they defend themselves boldly, and bite with great fury. They form burrows provided with numerous passages and entrances; in the end of September they retire into their subterraneous chambers, which are well lined with mofs and dry grafs, and, ftopping up the entrance with earth, they remain in a torpid state of hybernation till the month of March: If dug up while in this state, and brought into a warm atmosphere, they revive gradually. They are able to walk on their hind feet, fit up often on their haunches, and carry food to their mouths with their fore feet. They are eafily caught when on plain ground, but with difficulty in their holes, as they dig deeper when in danger of being taken, except in winter, when torpid, at which time they are caught in great numbers, partly on account of their flesh, which is tender and delicate, partly for their skins, and partly for their fat, which is efteemed medicinal by the inhabitants of the Alps; but they are chiefly taken by the Savoyards for the purpose of being exposed as shows through various parts of Europe. In a tame state, they are very destructive to all kinds of provisions, clothes, linens, or furniture; and can hardly be prevented, even in warm chambers, from falling into the torpid state in the winter time. They procreate in April or May, and the female, after fix or feven weeks, produces two, three, or four young ones.

Vol. I. I i

524

The body is thick and fliort, with a large thick head, flattened at the top, and having a thick blunt nose, which is often carried erect when the animal sits; the two bones of the lower jaw are moveable on each other; the ears are short, round, hairy, and almost hid in the fur; the cheeks are covered and surrounded with long hair; the muzzle has seven rows of whiskers; above and below each eye is placed a black wart, on the former of which are fix, and on the latter, seven, bristly hairs; the legs are short, and the conical thumbs of the fore seet have each a dusky flat nail; the tail is straight, and is covered with long hairs: The fur on the upper part of the body is of a brownish ash colour, mixed with tawny yellow; the sides are paler, and the lower parts reddish, having a future or parting of the hair, all along the belly, from the throat to the anus; the tip of the tail is very dark brown, almost black: The body and head measure sixteen inches, and weigh nine pounds; the tail is about fix inches long.

2. Monax.—2. Arctomys Monax. 2.

Has short rounded ears; the nose and cheeks are bluish; the body is of a deep brown colour; the tail is longish, and very hairy. *Schreber, iv. 737. t. ceviii.

Mus grifeus, of a dark brown grey colour, with a bluish nose; having a convex head, external ears, and sour toes on the fore feet. Pallas, Glir. 74. n. 2.—Mouse, of a brown ash colour; having a hairy tail of a middle length, roundish ears, four toes before and five behind. Syst. nat. ed. xii. 81. n. 8.—Glis susceptible. Marmota americana, or American Marmot, of a brown colour, with a bluish ash coloured nose. Briss. quad. 164. n. 5.—Glis Monax, with a brown body, the sides and belly of a paler colour. Erxleb. mam. 361.—Monax. Edw. av. ii. t. 104. Sm. Buff. iv. 346. pl. xcviii.—Maryland Marmot. Penn. hist. of quad. n. 260. Arct. zool. n. 44.

Inhabits the warmer states of North America, and the Bahamas.—This species, in America, forms holes in the clefts of rocks and under the roots of trees, in which it passes the winter in a torpid state; but it is uncertain if those of the Bahamas hybernate, as the climate of these islands is very mild. Thehead is not so thick and large as in the former species, and the snout is somewhat lengthened, the nose and cheeks being of a bluish ash colour; the ears are short and rounded; the eyes are black and prominent; the feet and legs are black, having long sharp claws; the tail is half the length of thebody, and is covered with longish dusky hairs. This animal is about the fize of a Rabbit; it feeds on vegetables; and its sless is very good, resembling that of a Pig.

3. Bobak. - 3. Arclomys Bobac. 3.

Of a greyish colour, mixed with long dusky hairs on the upper parts of the body, the under parts yellowish: Has small oval ears; a hairy tail; and the fore feet have each a claw in place of the thumb or fifth toe. Schreber, iv. 738. t. ccix.

Mus Arctomys, with a rounded head, having external ears; the tail short and hairy; a claw on each fore foot in place of the inner, or sisth toe; the upper parts of the body grey, and the underparts yellowish. Pallas, Gir. 75. 97. 98. t. 5.—Glis Marmotta polonica, or Polish Marmot, of a yellowish colour, with a reddish head. Briss quad. 165.—Bobak. Rzaczinski, hist. nat. Polon. 235. Sm. Buss. vii. 198. pl. ccxxi. Forster, Phil. Trans. lvii. 343. Penn. hist. of quad. n. 262. Arct. 2001. i. 115. A.

Inhabits the dry and funny places of the mountains, from the Boristhenes, through the temperate climes of Afia, as far as China and Kamtschatka.—The Bobak forms very deep burrows, in which focieties of twenty or more live together, each individual having a particular nest at the bottom of the common gallery, which is often three or four yards deep, and from which numerous galleries, or palfages, branch off to the feveral apartments. They go about in fearch of food, in the morning and middle of the day, placing a centinel to give warning of approaching danger. It is a timid animal, which feeds only on vegetables, preferring olleraceous plants; it fits up on the hams, and carries its food with the fore paws to its mouth, and defends itself in the same posture; may be easily tamed, even when old, and then eats cabbages or bread, and laps milk, but refuses to drink water. In summer it feeds voraciously, but remains torpid all winter, except when kept in very warm places, and even then eats very little, and escapes, if possible, that it may get to some place proper for hybernating, and returns to its mafter in fpring. The flesh may be eaten, and resembles that of a Hare, though rank; the fat is used for drefling leather and furs, and the skins are employed for clothing by the Russians. The head and body measure fixteen inches, the tail is straight, and about four and a half inches long, and the whole animal fometimes weighs fourteen pounds. The female has eight teats, and probably brings forth early, as, by the month of June, the young ones are half grown. The ears are fmall, thick, oval, and covered with greyish white down, having longish hairs at the edges; the eyes are fmall; the whifkers fhort: About the eyes and nofe the fur is of a dufky brown colour, growing reddiff among the whifkers; the upper parts of the body are greyiff, intermixed with long dusky or black hairs, which have grey or whitish tips; the throat is of a rusty colour; the rest of the body and infide of the limbs are of a yellowish rusty brown; the tail is slender, full of hair, marked with dufky rings, and is tipt with black.

4. Canadian Marmot .- 4. Arctomys Empetra. 4.

Of a mixed grey colour on the upper parts of the body, the lower parts orange; having short rounded ears, and a hairy tail. Schreber, iv. 743, t. ccx.

Mus Empetra, of a mixed colour on the back and reddish on the belly; having a rounded head provided with external ears, a short hairy tail, and four toes on each fore foot. Pallas, Glir. 75. n. 4.—Glis canadensis, of a grey colour, with orange coloured belly and thighs. Erxleb. mam. 363.—Quebec Marmot. Penn. hist. of quad. n. 259. pl. xli. f. 2. Arct. zool. n. 43.—Canadian Marmot. Forster, Phil. Trans. lxii. 378.

Inhabits Canada, Hudson's Bay, and the other northern parts of America.—This species is rather larger than a Rabbit, and the tail is about two inches and a half long; the head is round, with a blunt nose, and short rounded ears; the cheeks are full, and of a grey colour; the face is dusky, with a black nose; the hair on the back is grey at the roots, black in the middle, and whitish at the tips; the belly and legs are of an orange colour; the tail is short, somewhat bushy, and of a dusky colour; the feet are black and naked, having four long, slender, divided toes, and the rudiments of a thumb on each fore foot, and five similar on each behind, all armed with pretty strong claws. This animal was described by Mr Pennant from a living specimen in possession of Mr Brooks, which was very tame, and made a hissing noise.

Ii 2

528

529

5. Hoary Marmot.—5. Arctomys pruinosa. 5.

Has very coarse, long, hoary fur; whitish cheeks, a black nose, and black legs; having. short oval ears. Penn. hist. of quad. n. 261. Arct. 2001. n. 45. Lev. Mus.

Inhabits the northern parts of America.—This animal is about the fize of a Rabbit; the nofe is black at the tip; the ears are fhort and oval; the cheeks are whitish, and the crown of the head is mixed with tawny and dusky; the fur on the body is long and harsh, being ash coloured at the bottom, black in the middle, and whitish at the tips, giving a hoary appearance; the legs and feet are black, having four toes on each fore foot, and five behind, all armed with dusky claws; the tail is black, and mixed with rust colour.

6. Souslik.—Arctomys Suslica.

The upper parts of the body are of a yellowish brown colour interspersed with numerous small white spots; the ears are very short; the tail is hairy, and about the length of the thighs. Sm. Buff. viii. 234. pl. ccxc.

Cafan Marmot. Penn. fynopf. p. 273.

Inhabits Cafan, and as far as Auftria.—Dwells in the defert, digging holes in the black foil of the declivities of the mountains; these burrows are seven or eight feet long, are dug in a winding form, and have several entries; at the bottom are several apartments, in which stores of corn, pease, lint-seed, hemp-seed, and other grains and seeds are collected, each kind in separate cells; besides these they have separate holes for living in: During summer they feed on grains, herbs, roots, and young mice. The body and head of this species are somewhat more lengthened than in the other species of this genus, and about the size of a large Rat; the ears are short and rounded; the face, breast, belly, and legs are of a pale yellow colour; the tail is covered with short yellowish brown hair; the fore feet have four toes, armed with long claws, and a short thumb, or rudiment of a fifth toe; the hind feet have five toes each, the two outer ones short, and the other three long.

7. Zifel .- Arctomys Citillus.

Is of an uniform dark cinereous grey colour; has no external ears, a blunt nofe, a long flender body, and a very flort tail. Sm. Buff. viii. 229.

Earless Marmot. Penn. hist. of quad. n. 263. pl. xlii. f. 1. Arct. zool. n. 47.

Inhabits Hungary, Austria, and Poland:—This species burrows like the former, than which it is rather larger, being near-a foot long.

8. Zemni.—Arctomys Zemni.

Of a mouse-grey colour; has short rounded ears; five toes on all the feet; and very minute eyes concealed beneath the fur. Sm. Buff. viii. 232.

Podolian Marmot. Penn. Synopf. p. 277.—Zitf-jan. Le Brun, voy. Muscov. ii. 402.—Little Earth-dog. Rzaczinski, hist. nat. Pol. 325.

Inhabits

Inhabits Ruffia and Poland.—This species is larger, stronger, and more mischievous, than the Zisel. The head is thick, with short rounded ears; the body is slender, and covered with short, soft fur; the tail is of a moderate size; the fore-teeth are very large, and project much from the mouth, the under ones being much longer than the upper; the feet are all divided into five toes, armed with crooked claws; the body is about the size of a Squirrel, and in manners and dispositions it resembles the Zisel. It bites cruelly, and eats voraciously of grains, fruits, and pot herbs, laying up magazines of provisions in its burrows, where it passes the winter.

These three last described animals, the Soussik, Zisel, and Zemni, are all supposed to be of the same species by Dr Gmelin, and are included under one description, as follows, Syst. nat. ed. Gmel. i. p. 144. n. 6.; but, on the authority of Busson and Pennant, they are separated in this edition.—T.

Arctomys Citillus, of a variable colour, having a hairy tail, and no external ears. Schreber, iv. 746. t. ccxi. A. B.—Mus citillus, of a variable colour, having a convex head, no external ears, and a fhort hairy tail. Pallas Glir. 76. 119. t. vi. vii. B.; and Nov. com. Petrop. xiv. 549. t. 21. f. 1. 2.—Mouse, of an ash colour, having no external ears, and a short tail. Syst. nat. ed. xii. i. 80. n. 4.—Mus Suslica. Guldenstaedt, Nov. com. Petrop. xiv. 389. t. 7.—Mus Noricus, s. Citillus. Agric. Subt. 485. Gesn. quad. 835. Raj. quad. 220. Rzacz. Pol. 235. D°. auct. 327. Schwenks. Sil. 86. Aldrovand. dig. 436. Erxleb. mam. 366.—Cuniculus germanicus, or German Coney, of a grey colour, having a tail, but no external ears. Briss. quad. 147. n. 6.—Orientalischer Hamster, or Oriental Hamster. S. G. Gmelin, It. 30. t. 5.—Casan Marmot, Earless Marmot, and Podolian Marmot. Penn. synops. of quad. p. 273. n. 201. and n. 203. t. 25. f. 1.—Zisel, and Souslic. Busta hist. nat. loc. cit.

Inhabits the fouthern parts of Ruffia as far as Kamtschatka, and the islands between Asia and America; in Persia and China, and is now rarely found in the rest of Europe.—Dwells in open, high, dry; and uncultivated places, preferring turfy and loamy soils, near the high roads, and never frequents bogs or woods. Each individual has its separate burrow, in which, for provision in the beginning and end of winter, it lays up magazines of grain, tender vegetables, and berries; sometimes, though rarely, the carcasses of mice and small birds are added; in the middle of winter it lies torpid during the greatest severity of the frost; the burrows of the semales are dug deeper than those of the males. From the very beginning of spring, as soon as the weather becomes mild, they go out in the day time in quest of food, which they eat sitting on their haunches, carrying it in their fore paws to the mouth. The male is very easily tamed, but the semale is siercer, more given to bite, and is less easily made tame; she goes between three and sour weeks with young, and brings forth from three to eight young ones about the beginning of May. The sur svery good in the spring, and the sless reckoned tolerable. They are preyed on by polecats, weafels, hawks, carrion-crows, and cranes.

This animal varies confiderably both in fize and colour, being fometimes as large as the Common Marmot; and fometimes not larger than the Water Rat: In general the colour is of a yellowish ash on the upper parts, and dirty white on the belly *; fometimes it is variegated either with waves or small spots of white †; some are white on the upper parts, and waved with tawny or yellow, being pale yellow on the lower parts of the body, and having a longish tail, with shed hair like that of as Squirrel

^{*} This uniform variety is evidently the Zifel of Buffon .- T.

[†] The variety which is spotted with white is the Soullik of Busson. T.

53I

532

Squirrel; others are of a grey colour on the upper parts of the body spotted with white *, the under parts being of a yellowish white, with white orbits, and the face, between the eyes and the nose, of a brownish yellow, with a short tail. Perhaps this animal is the *Mus Ponticus* of Aristotle and Pliny.—Gmel.

530 9. Gundi. -7. Arctomys Gundi. 7.

Of a brick-dust red colour, with wide, open ears, which appear as if cropt, or cut off. Rothman, apud Schloezer, briefw. i. 339. Pallas, Glir. p. 98. note.

Gundi. Penn. hist. of quad. n. 264.

Inhabits Barbary, near Maffusin, towards mount Atlas.—This species is about the fize of a small Rabbit; the tail is short; the upper fore-teeth are large and truncated, the lower ones slender and pointed; it has sour toes, armed with claws, on all the feet, and uses the sole in walking as far as the heel.

10. Hudsons Marmot.—Arctomys hudsonia.

Of a brown ash colour; with short external ears and no tail.

Tailless Marmot. Penn. hift. of quad. n. 265. Arct. zool. n. 46. Lev. Mus.

Inhabits Hudfons Bay.—Has two cutting teeth above, and four in the lower jaw: The hairs are tipt with white.

11. Chilese Marmot.—Arctomys maulina.

Of a reddish brown colour, with sharp ears, having five toes on all the feet. Molina, hist. Chil. 268.

Mus maulinus. Syst. nat. ed. Gmel. 137. n. 32.

Inhabits the woods of the province of Maule in Chili.—This quadruped is arranged by Dr Gmelin in the Murine genus; with a hint, however, that it more probably belongs to the genus of Marmots: It agrees with the Common Marmot in the colour and length of the hair, but is nearly twice as large; the fnout is long-shaped, having four rows of whiskers; the feet have all five claws; and the tail is furnished rather thinly with hair.

XXVIII. S Q U I R R E L .-- 27. S C I U R U S. 25.

Has two fore-teeth in each jaw, those above being wedge-like, and the under ones sharp pointed; there are five grinders above,

^{*} This variety is probably the animal mentioned by Buffon, viii. 348. under the name of Kamt-schatkan Marmot, which resembles at a distance the variegated plumage of a beautiful bird; uses its fore feet in eating, and feeds on roots, berries, and a kind of nut, called Cedar-nuts.—T.

5.33

above, and four below, on each fide. It has perfect collar bones. The hair on the tail is usually shed to both fides.

The animals of this genus are, in general, elegantly formed, and very quick in all their motions, efpecially in climbing trees, and fkipping about from branch to branch; a few of the species burrow under ground; they live mostly on the fruits, nuts, and feeds of trees and vegetables: Their bodies are in general tolerably thick, having broad heads, with long oval ears, and short legs; the fore paws have each four toes, with the rudiments of a thumb, and the hind feet have five distinct toes; the tails are long, and clothed with long hair, which, for the most part, sheds out on both sides from the middle, both above and below, forming a broad thin shade, which the animal carries over his back, protecting both against the fun and rain. Most of the species are easily tamed, and become frolic-fome, but bite harshly when teazed; they use the soles of the hind feet in walking, as far as the heel, and skip by leaps, rather than walk, when on plain ground; they sit up on their hind legs, when feeding, and hold their food with their fore paws. Some species of this genus are provided with hairy membranes, extended from the fore to the hind legs, by means of which they are enabled to bear themselves for a little time in the air, when leaping from one tree to another; from this circumstance the genus is very properly broken into two subdivisions, distinguished by the want or the possession of this membrane.

* Climbing Squirrels. - Sciuri scandentes.

Which have no membranes extended from leg to leg.

1. Common Squirrei .- 1. Sciurus vulgaris. 1.

The ears are terminated with long tufts of hair, and the tail is of the fame colour with the back. Erxl. mam. 411. Schreber, iv. 757. t. ccxii.

Squirrel, having four toes before and five behind, with long tufts of hair at the tips of the ears. Syft: nat. ed. xii. i. 86. n. 1.—Common Squirrel. Raj. quad. 214. Penn. hift. of quad. n. 266. Arct. zool. i. 122. A. Brit. zool. i. 93. Gefn. quad. 845. Aldrov. dig. 396. f. p. 398. Jonft. quad. 163. t. 66. Schwenkf. ther. Sil. 121.—Eichhoernlein. Ridinger, jagd. th. t. 20. S. G. Gmelin, It. i. 37. t. 7. Falk, Beyt. iii. 311.—Ecureil, or Squirrel. Sm. Buff. iv. 268. pl. lxxx.—Ikorn, or Grafkin. Faun. Suec. n. 37.—Wiewiorka. Rzaczinfki. hift. nat. Pol. 225.—The anatomy. E. N. C. cent. 10. app. 449.

a. Red Common Squirrel.—Sc. vulg. rufus.

The head, body, legs, and tail, are of a bright reddish brown colour; the breast and belly white.

Common red Squirrel, fometimes mixed with grey. Briff. quad. 150. n. 1.—Sciurus vulgaris, rubicundus, or Common reddifh. Squirrel. Klein, quad. 53.

Is found all over Europe and the temperate climes of Afia-

B. White-tailed Common Squirrel.—Sc. vulg. leucourus. 534

As the former, with a pure white tail. Penn. hift. of quad. p. 406.

Common in many parts of England, and is very beautiful.

y. Varying Common Squirrel. -1. B. Sc. vulg. varius.

In winter of a bluish ash colour; in summer red, with a white belly. Erxl. mam. 414. a.

Sciurus varius, or Varying Squirrel of a whitish ash colour. Briff. quad. 152. n. 4. Aldrov. dig. 403. f. p. 405.—Squirrel, called Mus ponticus, and Varying Squirrel, on account of its changing colours at different feafons. Jonft. quad. 163. Gefn. quad. 741.

Found in Sweden, Lapland, and other cold countries.

536 1. Black Common Squirrel. - 1. v. Sc. vulg. niger.

Of a uniform black colour. Erxleb. mam. p. 415. s. Lever. Mus.

Inhabits about Lake Baikal.

e. White Common Squirrel. - 1. S. Sc. vulg. albus. 537

Of an entire white colour, with red eyes. Erxl. mam. p. 416. y.

Sciurus albus fibiricus, or White Siberian Squirrel. Briff. quad. 151. n. 2.—Sciurus albus, or White Squirrel. Wagn. Helv. 185. S. G. Gmelin, It. i. 35. t. 8.

Inhabits Siberia.

Z. Silvery Common Squirrel. - Sc. vulg. argenteus. 538

Is larger than the ordinary varieties, and of a gloffy filver grey colour. Penn. hift. of quad.

Teleutskaya Belka, or Squirrel of the Teleutian Tartars. Muller, Samlung. Ruff. vii. 124.

Is found about the upper parts of the river Oby; and is as large again as the Common Grey Squirrel of these parts.

The feveral varieties of the Common Squirrel inhabit the whole of Europe, and the northern temperate parts of Afia.—It lives always in woods, is a handsome, active, and lively animal, which climbs trees with great agility; it makes a neft of mofs and dried leaves, at the fork or junction of two branches, leaving two holes at opposite fides, and keeps that hole that which is towards the wind: It feeds on nuts, acorns, fruits, berries, and other vegetable productions, laying up magazines for winter, and in fummer feeds on buds, young cones, and tender shoots, especially those of the fir; drinks little, and in winter eats fnow in place of drink: It fits up on its hind legs, and fnades itfelf with its tail, which it carries over the back and head; and uses its fore paws for carrying its food to the mouth: It leaps to a furprifing distance; and is said, when inclined to pass a river, to use a piece of

MAMMALIA.

539

540

541

542

543

bark as a boat, erecting its broad tail to the wind as a fail. The skins are esteemed a valuable fur, especially when caught in winter, and the sless is reckoned very good. It procreates in March or April, and the semale, after a month, brings forth from three or sour to seven young ones, and breeds twice a year. In spring the semales are seen skipping from tree to tree, as if endeavouring to avoid the embraces of the male. They are preyed on by the martin, and other animals of the Mustela and Viverra tribes, by serpents, and by birds of prey.

2. White-legged Squirrel.—Sciurus albipes.

The ears are flightly tufted with black hair; the upper parts of the body are reddish brown, the under parts and legs white, and the tail dusky. Penn. hist. of quad. n. 266. v. Brit. Mus.

Inhabits Ceylon, according to the Catalogue in the British Museum.—The head, whole upper part of the body, sides and toes, are reddish brown; the face, nose, underside of the neck, inside of the ears, breast, belly, fore legs, and inside of the hind thighs, are white; the tail is long, and covered with dusky hair, which is much shorter than in the common kind.

3. Black Squirrel.—2. Sciurus niger. 2.

Of a black colour, with plain ears. Erxleb. mam. 417. Schreber, iv. 776. t. ccxv.

Sciurus niger, or Black Squirrel. Syft. nat. ed. xii. i. 86. Klein, quad. 53. Briff. quad. 582. Catefb. Carol. ii. 73. t. 73. Penn. hift. of quad. n. 273. Arct. zool. n. 50.—Quahtechalotl thlilt-lic, Sciurus Mexicanus, or Mexican Squirrel. Hernand. mex. 582. Fernand. nov. hifp. 8.

β. White-nosed Black Squirrel.—Sc. niger albirostro,

Has plain ears: Of a black colour marked with white on the nofe, neck, and extremity of the tail. Penn. hift. of quad. n. 273. pl. xliii. f. 2.

Inhabits North America, Mexico, and New Spain; Mr Pennant fays likewife in the north of Afia.—Is of the fame fize with the common species, but has a shorter tail; it lives in large troops, and makes terrible havock among the maize or Indian corn.

4. Vulpine Squirrel.—3. Sciurus vulpinus. 8.

Of a large fize, and ruddy colour, mixed with black and dirty white, having plain ears. Penn. hift. of quad. n. 273. s.

. Fox Squirrel, called likewife Cat Squirrel by the planters. Lawfon, Carolin. 124.

B. White Vulpine Squirrel .- Sc. vulp. albus.

Of a white colour, with the throat, and infide of the legs and thighs black. Penn. hift. of quad. p. 411.

..Vol. I. K k Inhabits

545

546

Inhabits Virginia.—Grows to the fize of a finall Rabbit; the fur is coarse; the throat and infides: of the legs and thighs are black; the tail is much shorter than that of the Common Squirrel; is of a dull yellow colour, mixed with black, and reddish at the tip, as are the ears.

5. Grey Squirrel.—4. Sciurus cinereus. 3.

Of a grey colour, with a white belly; and having plain ears. Erxleb. mam. 418. n. 3. Schreber, iv. 776. t. ccxiii.

Sciurus virginianus, or Larger grey Virginian Squirrel. Syft. nat. ed. xii. i. 86. Raj. quad. 215. Klein, quad. 53. Briff. quad. 153. n. 6. Brown, Jamaica, 483.—Grey Squirrel. Catefby, Carol. iii. 74. t. 74. Penn. hift. of quad. n. 272. pl. xliii. f. 3. Arct. zool. n. 49.—Petit gris, or Grey Squirrel. Sm. Buff. v. 321. pl. cxliii.

Inhabits North America, Peru, and Chili.—Is of the fize of a small Rabbit, of a dull grey colour, mixed with black, and often tinged with dirty yellow, having a long, bushy, grey tail, stripped with black. This species is very like the Common Squirrel, but larger, being a foot in length, and thicker made; it builds its nest in the hollows of trees, and does great damage to the fields of Indian corn, insomuch that the government gives a premium for their destruction; this, in one year, at Pensylvania, at three pence each, amounted to eight thousand pounds currency; consequently 640,000 must have been destroyed that year. They form magazines under ground of provisions for winter, and, in severe snow storms, they are sometimes samished in vast numbers, by having their access to these cut off. The fur of this kind, under the name of Petit gris, is reckoned valuable for linings to cloaks. They are preyed on by the Rattle-snake.

6. Labradore Squirrel .- 5. Sciurus hudsonius. 12.

Of a ferruginous colour along the back, the fides paler, and the belly ash colour mottled with black; the tail is like the back, but barred with black, and tipt with the same; the ears are plain. Penn. Lev. Mus.

Sciurus hudfonius, or Hudfon's Bay Squirrel, with plain ears, reddish grey on the back, the belly ash colour, having a shortish tail of a reddish grey colour, edged with black. Syst. nat. ed. Gmelin. 143. n. 12. Forster, Phil. Trans. lxii. 378. Pall. Glir. 377. Schreber, iv. 777. t. ccxiv.—Hudfon's Bay Squirrel. Penn. hist. of quad. n. 274. pl. xliii. f. 1. Arct. 200l. n. 48.

Inhabits the pine forests in Labradore, and round Hudson's Bay.—Is smaller than the Common Squirrel, and apt to vary in colour, especially to greyish, which accounts for the difference between the description given by Mr Pennant from a specimen in the Leverian Museum, and that quoted by Dr Gmelin from the Philosophical Transactions, though the latter author says that it retains the same colour throughout the year.

7. Carolina Squirrel.—6. Sciurus carolinensis. 13.

Of a grey colour, mixed on the head, back, and fides, with white and rust colour; the belly is white, divided from the sides by a rusty line; the tail is brown, mixed with black and edged with white; the ears are plain.

548

549

550

Carolina Squirrel. Penn. hist. of quad. n. 274. a.—Lesser grey Squirrel. Penn. synops. n. 209.

Inhabits Carolina.—This species is less than the Common Squirrel, and, like the former, is apt to vary to a more complete grey.

8. Virginian Squirrel.—Sciurus virginianus.

Has coarse fur of a mixed dirty white and black colour.

Cat Squirrel. Penn. Arct. zool. n. 49. \$.

Inhabits Virginia.—This animal is about the fame fize with the Grey Squirrel, of which Mr Pennant fupposes it to be a variety; the tail is shorter than in most species of the genus, and is of a dull yellow colour, mixed with black; the throat and insides of the legs and thighs are black.

9. Persian Squirrel .- 7. Sciurus persicus. 14.

Of a dark colour, with white fides and a yellow belly; the tail is black mixed with afficolour, and marked with a white ring; the ears plain. S. G. Gmelin, It. iii. 379. t. 43.

Inhabits the high mountains of Hyrcania in Persia.—This resembles the common species in general appearance and manners, but differs in the colour, which is not subject to variation: The soles of the feet are reddish.

10. Georgian Squirrel.—8. Sciurus anomalus. 13.

Of a yellow colour mixed with dusky on the upper parts and tail; the under parts of a dull tawny; the ears plain and rounded. Guldenstaedt. Schreber, iv. 781. t. ccxv. C.

Inhabits Georgia in Asia.—This species is larger than the Common Squirrel; the circumference of the mouth is white, the tip of the nose black, the cheeks tawny, the whiskers and region of the eyes dusky, and the ears flame yellow, whitish within.

11. Javan Squirrel .- 9. Sciurus bicolor. 16.

The upper parts of the body are black and the under parts tawny; the thumbs are provided with large rounded flat nails; the ears are plain, hairy, and sharp pointed. Sparrman, Act. foc. Goth. i. 70. Schreber, iv. 781. t. ccxvi.

Javan Squirrel. Penn. hist. of quad. n. 269.

Inhabits the island of Java.—The body and head are about a foot long, and the tail of the same length; Mr Pennant adds, that the tail is tipt with black, and says the under parts are of a light brown colour. The hind seet are black; the claws of the fore seet are sharp, except the nail on the sifth toe; and the thumbs are very short.

Kk 2

553.

554

551 12. Ruddy Squirrel.—10. Sciurus erythraeus. 17.

Of a yellow colour, mixed with dusky, on the upper parts; the under parts blood red mixed with tawny; the tail of this last colour, with a longitudinal blackish stripe; and the ears slightly tusted at the edges. Pallas, Glir. 377. Penn. hist. of quad. n. 271.

Inhabits India.—Is rather larger than the Common Squirrel; the fore paws have each a large protuberance in place of a thumb or fifth toe.

13. Ceylon Squirrel.—11. Sciurus macrourus. 18.

The tail is of a light grey colour, and twice the length of the body. Erxleb. mam. 420. Schreber, iv. 783. t. ccxvii.

Sciurus zeylonicus, or Ceylon Squirrel, with black hair on the back, called Rukkaia by the natives on account of its voice. Raj. quad. 215.—Long-tailed Squirrel. Penn. Ind. zool. t. 1.—Ceylon Squirrel, or Dandoelana. Penn. hift. of quad. n. 267.

Inhabits the island of Ceylon.—This species is three times the fize of the Common Squirrel. The ears are tusted with black hairs; the fore-head, back, sides, and haunches are black; the legs and belly yellow; the cheeks are yellow, marked with a bifurcated black stroke, and red at their lower-parts; and between the ears is a yellow spot: The tail is twice as long as the body, of a light grey colour, and very bushy; the root being surrounded with hair, while that on the rest lies slat, and separates sideways.

14. Malabar Squirrel.—12. Sciurus maximus. 19.

Of a red brown colour on the upper parts, the under parts and tail black; the ears flightly tufted. Schreber, iv. 784. t. ccxvii. B.

Large Malabar Squirrel. Sonneret, voy. ii. 139. t. 87.

Inhabits the Malabar coast, and the province of Mahe in India.—This species is about the size of a large Cat; has small creet ears, long hair, strong black claws, and a very small protuberance, in place of the thumb, or sist toe, on the fore paws, provided with a flat nail: It feeds chiefly on the milk of the Coccoa nut; and has a loud sonorous voice. Dr Gmelin is uncertain whether this be a distinct species, or only a variety of the last.

15. Abyssinian Squirrel - 13. Sciurus abyssinicus. 20.

Of a rusty black colour on the back, the fore feet and belly grey; the tail a foot and a half long. Thevenot, It. v. 34. Penn. hist. of quad. n. 268.

Is faid to inhabit Abyffinia.—This animal is but obfcurely known; it was purchased by Thevenot, at Moco in Arabia, from an Abyffinian; it is thrice the fize of the common species, and the nose and soles of the feet are slesh coloured; it was good natured and sportive, eat of every thing but slesh, and cracked the hardest almonds. This animal is probably, like the former, a variety of the Longtailed or Ceylon species.

556

557

: 16. Bombay Squirre! .- 14. Sciurus indicus. 21.

Of a dull purple colour on the upper parts of the body, the lower parts yellow, and the tail tipt with orange; the ears tufted. Erxleb. mam. 420. Penn. hift. of quad. n. 270.

Inhabits India near Bombay.—The head, back, fides, and upper parts of the legs and thighs are dull purple; the belly and lower parts of the legs yellow: The head and body measure fixteen, and the tail feventeen inches. This species is described, by Mr Pennant, from a stuffed specimen in Dr Hunter's museum.

17. Fair Squirrel .- 15. Sciurus flavus. 4.

Of a flaxen or pale yellowish colour, with plain rounded ears, and a round tail.

Squirrel, with a round tail, fhort hair, and roundish ears. Amoen. acad. i. 281. Syst. nat. ed. xii. 86.—Fair Squirrel. Penn. hist. of quad. n. 276. Della Valla, 84.

Inhabits the woods near Ahmadabad, the capital of Guzerat, in India; according to Linnaeus, it is found likewife near Carthagena in South America.—Is of a very small size, not above half as big. as the common species; the fur is yellowish, with white tips to the hairs; the fore feet have each a very small claw, or nail, instead of a thumb or fifth toe: It is very agile in leaping about from one tree to another. Dr Gmelin doubts if this animal should be considered as belonging to the genus; but gives no opinion of what other genus it should be referred to.

18. Palm Squirrel.-16. Sciurus palmarum. 5.

Of a mixed black and red colour, with three longitudinal yellow stripes on the back and sides; the tail is encircled with coarse dirty yellow hair, and is barred with black. Schreber, iv. 802. t. ccxx.

Sciurus palmarum, Mus palmarum, Palm Squirrel, or Palm Mouse, of a mixed red and black colour, having yellow longitudinal stripes on the back. Briff. quad. 156. n. 10.—Mustela africana, or African Weasel. Clust exot. 112. Nieremb. hist. nat. 172. Jonst. quad. 153. Raj. quad. 216.—Palmiste, or Palm Squirrel. Sm. Buff. v. 328. pl. cxliv.—Palm Squirrel. Penn. hist. of quad. 179.

Inhabits the hotter regions of Asia and Africa.—This species lives much on the Coccoa trees, feeding on the nuts, and is very fond of the Sury, or palm wine, which is made from that tree; from which circumstance the Dutch in India give it the name of Surifcatsjie*, or Little Cat of the Sury. This is a very small animal, scarcely three inches in length; the tail is much of the same length, and.

* Under this name, or one very nearly refembling it, we have already described an animal of the genus Viverra, or Fitchet, the Surikate, or Viverra fentadallyla; the English name of that species, used in this publication, is adopted from Busson, though it appears from the above circumstance, recorded by Mr Pennant, on the authority of Governor Loten, that the name Surikate, which is evidently a corruption of Suriscatsjie, should more properly be applied to the Palm Squirrel; but, as it has become familiar to English readers in the works of Busson, it is allowed to remain—T.

is carried erect, but does not shade the back; the ears are short, broad, not tusted, but fringed with hair at the edges; an obscure pale yellow stripe runs along the back, one similar on each side, and other two, one on each side, lower down, but these are at times so very faint as to be scarce perceptible; the hair on the head, back, and sides, is of an intimately mixed black and red, on the thighs and legs it is redder, and on the belly pale yellow. Clusius, and Mr Ray, following him, alledge that, though the hair in general encircles the tail, the animal has the power of expanding it sideways.

558

19. Barbary Squirrel .- 17. Sciurus getulus. 6.

Of a reddish ash colour on the upper parts of the body, with two longitudinal white stripes on each side. Schreber, iv. 806. t. ccxxi.

Sciurus getulus, or Barbary Squirrel, of a mixed black and red colour, with alternate longitudinal ftripes on each fide of white and dufky, or black. Briff. quad. 157. n. 11. Aldrov. dig. 405. f. p. 406. Gefn. quad. 112. Jonft. quad. 163. t. 67. Raj. quad. 216.—Barbarian Squirrel. Edw. av. iv. t. 198.—Barbary Squirrel. Penn. hift. of quad. n. 280.—Barbarefque, or Barbary Squirrel. Sm. Buff. v. 331. pl. cxlv.

Inhabits Barbary.—This animal refembles the former in appearance and manners, and is confidered by Mr Pennant only as a variety; it is, however, rather larger, measuring five inches long: The belly is white; the tail is bushy, and regularly marked with alternate shades of black and reddish ash colour; the fore paws have only four toes, with no vestige of a thumb, and all the claws are black.

559

20. Plantane Squirrel.—Sciurus Badjing.

Of a pale red-chesnut colour, with a yellow stripe along each side. Penn. hist. of quad. n. 280. %

Inhabits Java and Prince's island.—This animal refembles the Common Squirrel, though lighter coloured; it is called Badjing by the Malays, and lives much among the Pitang, or Plantane, and on the Tamarind trees; it is very shy, and, on the approach of mankind, runs off, making a vast pattering over the dry leaves of these trees. Mr Pennant considers it as a variety of the Palm Squirrel.

21. Ground Squirrel .- 18. Sciurus striatus. 7.

Of a yellowish colour, with five longitudinal dark stripes.

Striped Dormoufe. Penn. hist. of quad. n. 286. Arct. zool. n. 54.

560

a. Afiatic Ground Squirrel .- 18. a. Sc. striatus afiaticus.

Of a smaller size than the next variety.

Sciurus striatus, or Striped Squirrel. Pallas, Glir. 378. Georgi, It. i. 163.—Sciurus major variegatus, Larger variegated Squirrel, or Furunculus sciuroides, of Messerschmidt. J. G. Gmelin. Nov. com. Petrop. v. 344. t. 9.—Bomdoeskje. Le Brun, It. 432. t. 254.

561

β. American Ground Squirrel .- 18. β. Sc. ftr. americanus.

Of a pale colour, with four dusky stripes on the sides. Mus. ad. Fr. i. 8. Schreber, iv. 790: t. ccxix.

Sciurus carolinenfis rufus, or Reddifh Carolina Squirrel, having longitudinal black ftripes alternating with whitish yellow ones, on the back and sides. Briff. quad. 155. n. o.-Lyster's Squirrel-Raj. quad. 216.—Ground Squirrel. Lawfon, Carol. 124. Catefby, Carol. ii. 75. t. 75. Bricknell, Carol. 129. Edw. av. iv. t. 181.—Roesselvissla. Kalm, It. ii. 419.—Ecureil Suisse. Charlevoix, Nouv. Fr. iii. 134.—Suiffe, or Ground Squirrel. Sm. Buff. v. 330. pl. cxlvi.

The Afiatic variety inhabits the whole north of Afia, from the Dwina and Kama rivers eaftwards.— It lives chiefly on the feeds of trees, especially those of the Pinus cembra; and is about five inches and a half long. The American variety inhabits the lefs frigid regions of North America, as far as New Spain.—It dwells mostly in the woods, but never ascends trees unless when it cannot otherwise efcape from purfuit; it forms burrows under ground in the fame manner with the Hamster, and, like that animal, is provided with pouches in the cheeks; in these burrows, which are formed with great ingenuity, having long branched galleries leading to feveral apartments, it stores up provisions for winter, placing Maize, Acorns, Hickery nuts, Chinquapin chefnuts, and other articles, all in feparate chambers. It lives mostly on grain, and is very destructive to corn fields; bites severely, is very wild, and can fearcely be tamed. This variety is fomewhat longer than the Afiatic, being near fix inches long from the fnout to the origin of the tail.

The head of the Ground Squirrel is more lengthened than that of the other species; the ears are naked, rounded, and very fhort; the body thin and lengthened; the legs and feet are fhort; the fur is short and harsh. That described by Mr Pennant, from a specimen in the Leverian Museum, is the American variety; the head, body, and tail are of a reddish brown colour; the back is marked with a longitudinal black stripe, each side with a pale yellow stripe, bounded both above and below by a black line; the breast and belly are white; the nose and feet pale red; and the eyes are large and full! If the winter stores in its holes happen to fail, it digs into cellars for apples, and into barns for corn, doing a great deal of mischief; it is hunted after by cats with great avidity.

562

22. Brasilian Squirrel .- 19. Sciurus aestuans. 9.

Of a dusky colour tinged with yellowish on the upper parts of the body; the inside of the legs and belly yellow; with a white stripe along the middle of the belly; the taik is round, and annulated with black and yellow. Penn. hift. of quad. n. 277.

Brafilian Squirrel. Marcgr. Braf. 230.

563

1 1

B. Striped Brasilian Squirrel. - Sc. aest. fasciatus.

Of a mixed dusky and yellow colour, with white stripes on the sides, and a black tail-Briff. quad. 154. n. 7.

Inhabits Brasil and Guiana.—The ears are plain and roundish; the fur is soft; the head and body measure somewhat more than eight inches, and the tail ten-

23. Carnatic Squirrel .- 20. Sciurus dschinschicus. 22.

Of a brick-dust red colour, with white stripes on the sides, and white orbits; having a black tail. Someret, It. ii. 140.

Inhabits the province of Dfchinfchi * in India.—This species is larger than the Common Squirrel.

565

24. Varied Squirrel .- 21. Sciurus variegatus. 23.

The head and upper parts of the body are varied with black, white, brown, and orange; and the belly is yellow. Erxleb. mam. 421. Schreber, iv. 789. t. ccxviii.

Quauhtecallotlquapachtli, ur Coztiocotequallin. Fernand. nov. Hifp. 9.—Coquallin, or Varied Squirrel. Sm. Buff. vii. 176. pl. ccxix.—Varied Squirrel. Penn. hift. of quad. n. 275.

Inhabits Mexico and New Spain.—Dwells in burrows, and in holes under the roots of trees, laying up winter magazines of maize and other grain: It is near twice the fize of the Common Squirrel, being about a foot long; the ears are flort and plain, and, with the circumference of the mouth, are white; the whitkers and claws are black.

566

B. Smaller Varied Squirrel.—Sciurus variegatus minor.

Mr Pennant informs us that he has feen a variety of this fpecies, not larger than the Common Squirrel, the fur of which on the upper parts of the body was brown, orange, and ash coloured, with an orange coloured belly.

567

25. Chilese Squirrel.—22. Sciurus Degus. 24.

Of a dusky yellow colour, with a black line on the shoulders. Molina, hist. nat. Chil. 269.

Inhabits Chili.—This species dwells in large societies, burrowing under ground, and feeding on roots and fruits, of which it lays up magazines for winter provision. It resembles the White Dormouse, but does not become torpid in winter; in size it is rather larger than the Black Rat, having a short head and sharp snout; the ears are rounded; the tail is bushy at the end, and is of the same colour with the body. The sless is eaten by some of the natives.

568

26. Mexican Squirrel .- 23. Sciurus mexicanus. 25.

Of a dufky ash, or mouse-colour, with five or seven longitudinal white stripes along the back and tail. Erxleb. mam. 428. n. 12.

Sciurus novae hifpaniae, or Squirrel of New Spain, of a dusky ash colour marked with white stripes on the back. Briff. quad. 154. n. 8.—Sciurus rariffimus, or Rare Squirrel, from New Spain, striped

* It is difficult to guess what part of India is meant by this, unless Gingee in the Carnatic, the spelling being taken from the sound, as pronounced in the German language.—T.

5.70

571

572

Arriped with white. Seba, Muf. i. 76. t. 47. f. 2. 3. Tlamototli. Fernand. nov. hifp. 9. Mexican Squirrel. Penn. hift. of quad. n. 278.

GLIRES.

Inhabits Mexico and New Spain.—The male has feven white lines along the back, and the female sonly five: The fcrotum of the male is large and pendulous. This species is not quite fix inches long, and the tail is fomewhat longer; the ears are naked at the edges.

27. American Squirrel. - Sciurus scrotalis.

Of an uniform colour, with a large pendulous scrotum. Seba, Mus. i. 76. t. xlviii. f. 7. Penn. hist. of quad. p. 414.

Inhabits with the former.—This animal is mentioned only incidentally by Mr Pennant as a variety of the former; the manners of both are unknown.

28. Cayenne Squirrel. - Sciurus bancrofti.

Of a pale yellowish brown colour on the upper parts; the fides and belly white; the tail very long, hairy, and spotted. Bancrost, Guiana.

Inhabits Guiana. This animal refembles the Common Squirrel in fize and general appearance.

29. Guiana Squirrel. - Sciurus guajanensis.

Of a small size and reddish colour. De la Borde, voy.

Inhabits Cayenne.—This animal is fierce, and bites feverely, in its natural flate, yet may easily be tamed; it is not larger than a Rat, and lives in a folitary manner in the woods, refiding on trees, and feeding on the feeds of the Maripa, Aura, and Comana; the female produces two young ones at a time only once a year. These two last animals are but obscurely known, and are mentioned by Dr Gmelin only in a note, leaving it to future inquiry to determine more precifely their place in fystem, and to describe more accurately their manners and external marks.

30. Madagascar Squirrel. - 24. Sciurus madagascarensis. 29.

The middle toe, on the fore feet, is very long and naked; the thumb, or fifth inner toe, on the hind feet, has a flat rounded nail.

Aye-aye. Sonneret, It. ii. 137. t. 86.

Inhabits the eastern fide of the island of Madagascar. This animal is rather doubtful in its nature; in the flowness of its pace, and general manners, it resembles the Sloth; but in the form of its tail, and the number and form of its toes, five on each foot, and the number and arrangement of its teeth, it is more nearly allied to the Squirrel: It lives in holes under ground; is flothful, timid, and fleeps much; it feeds chiefly on worms, which it extracts from the hollows of trees by means of its toes. The ears, are large, flattened, black, and covered thickly with rough hair; the face is garnished with bunches of hair above the eyes, on the nofe, and cheeks, and under the chin; the fur is of two forts, VOL. I. LI an

574

an under downy fleece, like wool, of a whitish or pale tawny, with longer straight black hairs intermixed; the face and throat being of a pale whitish tawny colour; the tail is flattened, and about eighteen inches long, covered with thick set white hair from the base to the middle, and the rest black; the toes on the fore paws are all long, and four of the claws on the hind seet are hooked and sharp pointed.

31. Cape Squirrel.—Sciurus capensis.

Of a pale ferruginous colour on the upper parts of the body, mixed with black; with a white line from the shoulder along each side; the tail is black in the middle and hoary at the sides; the ears are scarcely apparent.

Earless Dormouse. Penn. hist. of quad. n. 290.

Inhabits near the mountain of Sneeberg, eight hundred miles north from the Cape of Good Hope.—This species never climbs trees, but burrows in the ground, forming a warm nest, with a round hole, in which it lodges, closing up the orifice; it feeds on bulbous roots, especially potatoes; it is very tame, and never offers to bite, walks often on its hind feet, frequently lies flat on its belly, and often flirts up the tail. The head is flat, with a blunt nose, full black eyes, divided upper lip, and long whiskers; the belly and feet are dirty white, and there is a white line above each eye; the toes are long and diftinct, with a large knob on each fore foot in place of a thumb; the claws are long; the hind legs are black and naked behind. It is about the fize of the Common Squirrel, but much broader and flatter in its make.

** FLYING-SQUIRRELS.—PETAURI*.

Have a hairy membrane extended from the fore to the hind legs, adapted for flying,-

1. American Flying-Squirrel.—25. S. Petaurus volucella. 26.

Of a brownish ash colour on the upper parts, the belly white tinged with yellow; the tail is flattened, broadest at the middle, and ends in a point. Penn. hist. of quad. n. 283. Arct. zool. n. 51.

Sciurus volucella, or Flying Squirrel, with moderately broad membranes, and a long hairy tail. Syft. nat. ed. Gmel. 153. n. 26. Pallas, Glir. 353. 359. Schreber, iv. 808. t. ccxxii. Muf ad Fr. ii. 10.—Sciurus minimus, or Smallest Squirrel, with membranes connecting the fore and hind feet together, having a white belly. Brown, Jamaic. 438.—American Flying-Squirrel. Raj. quad. 215.—Mus volans, or Flying Mouse. Syst. nat. ed. xii. p. 75. n. 21. Mus. ad Fr. ii. 10.—Quimichpatlan. Fernand. nov. hisp. 8.—Flying Squirrel. Catesby, Carol. ii. 76. t. 77. Edw. av. iv. t. 191. Sm. Buff. v. 309. Du Pratz, Louisiana, ii. 98. Kalm, It. i. 321. t. 1.—Assapanick. Smith, Virgin. 27. Jocelyn, voy. 86. De Laet. 88. Lawson. virgin. 124.

Inhabits

^{*} In the Naturalist's Miscellany, Dr Shaw very properly distinguishes these animals, and the flying Macauco, or Colugo, into a particular genus, under the name of *Petaurus*, which is here adopted instead of *Sciuri volantes*, employed by Linnaeus and Gmelin.—T.

376

577

Inhabits the temperate and warmer parts of North America.—Lives in focieties in the woods, feeding on fruits and feeds, which it goes in quest of chiefly in the evening and night, and during the day sleeps almost constantly in its nest, which is formed of leaves. This species, which is very easily and completely tamed, is about five inches long from nose to rump, with a round tail about an inch shorter; the head is thickish, with large, prominent, black eyes; roundish, transparent, almost naked ears, of a brownish ash colour; the whiskers are black and longer than the head; the neck short. The fur is very fine and soft, of an ash colour on the upper parts of the body, with white tips; on the lower parts white in the middle of the belly, and ash coloured all around. The membrane begins at the ears, and is extended to the fore and hind legs, and to the tail; on the fore legs it adheres as far as the toes, and includes a peculiar bone, which is attached to the wrist, and helps to stretch it out in slying; and on the hind legs it extends to the ankles. By means of this membrane, when the fore and hind legs are stretched out, the animal is enabled to support itself in the air, as if slying, for a considerable way; and swims nearly in the same manner.

2. Virginian Flying-Squirrel.—S. Petaurus virginianus.

Of a reddish colour on the upper, and yellowish ash on the lower, parts of the body; the lateral membrane involving the chin and ears.

Sciurus volans virginianus, or Virginian Flying Squirrel. Seba, Muf. i. t. xliv.—Hoo in i figure. Penn. hift. of quad. n. 284. Arct. zool. n. 52.

Inhabits Virginia.—The ears are large and oval; the lateral membranes begin at the comproceeding along the lower parts of the face, involve the fore legs, extending to the hind legs. is probably only a variety of the preceding.

3. Labradore Flying-Squirrel .- 26. S. Petaurus hudsonius. 27.

Of a reddish brown colour on the upper parts of the body; the under parts of a yellowish white; the tail hairy and flattened.

Sciurus volans major, or Larger Flying Squirrel. Pallas, Glir. 354. Forfter, Phil. Tranf. lxii. 379.—Severn river Flying Squirrel. Penn. hift. of quad. n. 282. Muf. Roy. Soc. Arct. zool. n. 53.—Sciurus hudfonius, or Hudfon's Bay Squirrel. Syft. nat. ed. Gmel. i. 153. n. 27.

Inhabits North America to the fouth of Hudfon's Bay, and about Severn river.—Is about the fize of the Common Squirrel: The membrane does not border the fore legs; the fur is long and full, the under parts of the hairs being ash coloured, and the tips reddish brown.

4. European Flying-Squirrel.—27. S. Petaurus volans. 10.

Of a pale leaden grey colour on the upper parts of the body; the under parts pure white; the tail is full of hair, and rounded at the ends. Schreber, iv. 813. t. ccxxiii. Penn. hift. of quad. n. 285. Arct. zool. i. 124. B. Lev. Mus.

Sciurus volitans, or Flying Squirrel with broad membranes. Faun. Suec. ii. 13. n. 38. Muf. ads. Fr. i. 8.—Sciurus volans, or Flying Squirrel, of a dark afth colour. Briff. quad. 157. n. 12.—

L1 2

Sciurus

Sciurus volans fibiricus, or Siberian Flying Squirrel, of a pale ash colour. D°. 159. n. 13.—Sciurus volans, or Flying Squirrel. Rzaczinski, Polon. 316. Klein, Ph. Trans. 1733, t. 35. f. 1. Seba, Mus. i. 67. t. 41. f. 3. Pallas, Glir. 355.—Sciurus petaurista volans. Klein. quad. 24.—Sciurus, f. Mus scythicus, Mus ponticus, Scythian or Pontic Mouse, or Squirrel, known by the name of Flying, which might be called Sciurus latus, or Broad Squirrel, on account of its extended sides. Gesn. quad. 743.—Quadrupes volatile, or Flying quadruped, from Russia. Duvernoi, Com. Petrop. v. 218.—Poulatouche, or Smaller Flying Squirrel. Sm. Buss. v. 305. pl. cxxxix. when collapsed, and cxl. when extended.—Sciurus volans. Syst. nat. ed. Gmel. i. 154. n. 10.

Inhabits Siberia in great numbers, and more rarely in Lapland, Livonia, and Poland.—Lives much in beech woods, feeding on the buds, catkins, and tender twigs of the beech trees. Except in the feafon of love, this species lives in a folitary manner, wandering about even in the milder days, and middle of the day, in winter; it forms a nest of moss in the hollows of trees: It is a sierce, and severely biting animal, which can hardly be tamed; by means of the membrane, which extends to the very base of the fore feet, and forms a large projecting wing on each side; it is capable of making surprifing leaps from tree to tree: In the month of May the female brings forth two or three, feldom, four, young ones. The ears are naked and indented on the outer edges; the eyes are full, and furrounded with black; the body and head meafure very little more than four inches, the tail five, which, in leaping, or rather flying, it extends, but, when at rest, keeps over the back, like the common species. According to the celebrated Pallas, this species is larger than the American Flying Squirrel, yet the individual described by Mr Pennant is somewhat less, so that we must conclude, that both kinds vary in fize; its colour does not incline to yellowish, but is of a whitish ruffet on the upper parts, and pure white on the belly and under parts of the body; the head is fhorter and more rounded than in the American species; the tail is shorter, and contains sewer vertebrae, is scarcely at all shaded with dusky on its upper part, and is not more than half the length of the body; the eyes are placed nearer to the nofe, and are furrounded with a darker circle; the fore legs are shorter, and the hind legs are longer, especially the second joint or tibia.

5. Java Flying-Squirrel.—28. S. Petaurus sagitta. 11.

Of a ferruginous brown colour on the upper parts of the body; the under parts pale: ferruginous; the tail very much flattened and blunt at the point. Nordgren.

Sciurus fagitta, or Arrow Squirrel. Syst. nat. ed. Gmel. i. 154. n. 11.

Inhabits Java.—Is about the fize of the Common Squirrel, having an oval head, with oval, blunt, hairy ears, whifkers as long as the head, and one briftle on each cheek; the upper lip is divided, and the lower very fhort; the teeth are brown, and rather blunt: The feet are of a dull reddifh colour; the fore feet have each four, and the hind feet five toes; all the toes having the foremost joint very prominent, and are furnished with claws which are compressed sideways; the fore feet are furnished, with a long cartilaginous or briftly spur, as long as the fore-arm, within the membrane, which it affists to expand; the hind legs are fringed with hair behind; the scrotum is large, egg-shaped, and hairy, and the prepuce is long and hairy. The membrane extends from the head, includes the fore legs to the wrists, and as far as the knees only of the hind legs; is of the same colour with the body, and is fringed at the edges.

580

581

6. Indian Flying-Squirrel .- 29. S. Petaurus Petaurista. 28.

GLIRES.

The tail is longer than the body, flattened, and very full of long hair. Schreber, iv. t. ccxxiv.

Sciurus maximus volans, Felis volans, Largest Flying Squirrel, or Flying Cat. Brist. quad. 112. n. 15 .- Civetta volans, or Flying Civet. Valent. Ind. iii. 269. 270. Taguan, or Great Flying Squirrel. Sm. Buff. v. 312. pl. cxli. collapfed; pl. cxlii. extended.—Sailing Squirrel. Penn. hift. of quad. n. 281. Muf. Roy. Soc. - Flying Cat. Neuhoff, in Churchill's voy. ii. 354. and f. - Flying Hare. Michelbourn, in Purchas Pilgrim. i. 134. Hamilton, vov. ii. 131.—Sciurus Petaurifta. Syft. nat. ed. Gmel. i. 155. n. 28.—Taguan. hift. gen. des voy. xv. lib. 4. c. 9. p. 51.

a. Red Indian Flying-Squirrel. -S. Pet. Petaurista castaneus.

Of a very bright chesnut colour on the upper parts of the body; the under parts pale ferruginous. Pallas, Miscel. zool. 54. t. vi. f. 1.

B. Black Indian Flying-Squirrel. - S. Pet. Petaurista niger.

Of a black colour on the upper, and hoary on the under parts of the body. Pallas, Miscel. zool. 54. t. vi. f. 2.

Inhabits the islands of the Indian Ocean.—This species is greatly larger than the other animals of this division, being a foot and a half long from nose to rump; the head is rounded; the whiskers and claws are black; the female has fix teats on the breaft and belly; and the eyes have long narrow pupils like those of the Cat.

7. Southern Flying-Squirrel.—S. Petaurus australis.

Of a dufky blackish brown colour above, and whitish below, having rounded thumbs on the hind feet, and a long bushy tail, with large ears.

Petaurus australis, Southern Petaurus. Nat. misc. pl. 60. - Hepoona-roo. White, voy. to Botany. Bay.

Inhabits New-South-Wales.—This is the largest and most elegant of all the Flying Squirrels; its: most remarkable characteristic is the rounded thumbs, or great toes, of the hind feet, which are furnished with a flattened nail, while all the other toes, five to each foot, have sharp hooked claws; the two toes next this thumb are united together by the skin, but have separate claws; the colour is a finefable, or deep grey brown on the upper parts, darkeft on the middle of the back, and the under parts are nearly white; the edges of the membrane are fomewhat scalloped, and of a lighter colour; the fur is exquisitely foft and beautiful; the tail is long, and thickly clothed with very foft loose hair, longest towards the outer end; the ears are longish, and there is a black streak over each eye.

8. Phillips Flying-Squirrel .- S. Petaurus norfolcensis.

GLIRES.

Of a dark grey colour on the upper, and white on the under parts, with a dusky black line along the back from nose to tail; a long bushy tail, and short ears.

Norfolk-Hland Flying Squirrel. Phillips, voy. to New South Wales, 151. and pl.

Inhabits Norfolk island, off the coast of New South Wales.—This animal is nine inches long from the head to the rump, and the tail is ten inches in length; the upper part of the membrane is black, edged with white; a black line rises on each fide of the head near the nostrils, and, passing over the eyes, finishes above the ears; the ears are very short, scarcely rising above the fur; the first two-thirds of the tail are ash coloured, paler than the body, the outer third is a dusky black; each fore paw has five hooked claws, but those of the hind feet are uncertain, as the specimen brought to England wanted the hind legs.

XXIX. DORMOUSE.—28. MYOXUS.

Has two fore-teeth in each jaw; the upper ones wedge-like, and those below compressed sidewise. The muzzle is garnished with long whiskers. The tail is hairy, round, and becomes thicker towards the extremity. The fore and hind legs are not remarkably unequal in length; and the fore feet have four toes.

The animals of this genus all walk, or rather leap, on their hind legs, like the Jerboas, using the foles of the feet as far as the heel, and spring three or four feet at a bound, in which they are affisted by their long stiff tails. They form holes, or burrows, under ground, in which they remain torpid in winter, and in summer they sleep most of the day, going out only at night, and feed entirely on vegetable food. They eat in a sitting posture, carrying their food in their fore paws; and when thirsty, they dip their fore feet, with the toes bent, into water, and carry it to their mouth.

1. Hoary Dormouse .- 1. Myoxus Glis. 1.

Of a hoary or pale ash colour on the upper, and whitish on the under parts of the body; the tail full of long hair. Schreber, iv. t. ccxxv.

Sciurus canus, or Hoary Squirrel, with a whitish belly. Syst. nat. ed. xii. i. 87. Erxleb. mam. 429.—Sciurus epilepticus. Klein, quad. 54.—Mus cauda pilosa. Briss. quad. 160.—Mus Glis. Pallas, Glir. 88. n. 33.—Glis. Gesn. quad. 619. Aldrov. dig. 407. f. p. 409. Jonst. quad. 164. t. 67. Raj. quad. 229.—Loir, or Fat Squirrel. Sm. Buff. iv. 325. pl. xciv. f. 1. Penn. synops. p. 217.—Fat Dormouse. Penn. hist. of quad. n. 287.

583

5.85

Inhabits France and the fouth of Europe, and in the fouth-west of Russia, about the Volga and Samara.—This animal is the Exercs of Aristotle, Muozos of Oppian, and Glis of Pliny; it was held in great esteem among the Romans, as a luxurious delicacy; they were fed in places called gliriaria, conftructed for the purpose, and they are still eaten by the modern Italians. It forms a nest in the hollow of some tree, in which it sleeps all day; feeds in the night on nuts, walnuts, the seeds of apples, &c. and grows very fat in autumn: About the month of October they gather in troops, and, retiring into subterranean burrows, remain torpid till near the end of May. This animal is about the fize of the Common Squirrel, but thicker in the body, being six inches long from nose to rump, and the tail sive; the ears are thin and naked; the cheeks are white; and the whiskers are long: The semale has ten teats, six of which are situated on the breast, and sour on the belly; and she brings from nine to twelve young ones at a litter.

584 2. Wood Dormouse.—2. Myoxus Dryas. 2.

Of a reddish brown or tawny grey colour on the upper, and dirty white on the under parts of the body; having a black line from ear to ear across the eyes. Schreber, iv. t. ccxxv. B.

Inhabits Europe.—This species, or rather variety, only differs from the following, in colour, in having a shorter and more bushy tail, and in the want of the black spots near the ears: They are, however, placed by Dr Gmelin as distinct species.

3. Garden Dormouse.—3. Myoxus Nitela. 3.

Of a tawny colour on the upper, and whitish ash, tinged yellow, on the under parts of the body; having a black circle round each eye, and a black spot behind each ear. Schreber, iv. t. ccxxvi.

Mus quercinus, or Oak Mouse, having a long hairy tail, and a black spot under each eye. Syst. nat. ed. xii. i. 84. n. 15.—Mus nitedula, or Bright-yellow Mouse. Pallas, Glir. 88. n. 32.—M. avellanarum, or Filbert Mouse. Gesn. quad. 833. Jonst. quad. 163. t. 66.—M. avellan. major, or Larger Filbert Mouse. Aldrov. dig. 439. Raj. quad. 419.—Sciurus canus, or Hoary Squirrel, with a whitish belly, and a black spot under each eye. Erxleb. mam. 432. n. 15.—Glis, or Dormouse, of a dull ash colour on the upper, and whitish ash colour on the under parts of the body, with a black spot at each eye. Briss. quad. 161.—Lerot, or Garden Squirrel. Sm. Buff. iv. 332. pl. xciv. f. 2. Penn. synops. n. 218.—Garden Dormouse. Penn. hist. of quad. n. 288.

Inhabits the fouth parts of Europe and Russia.—This animal infests gardens, and is very destructive to all kinds of fruit, especially peaches; makes a nest in the hollows of trees and holes of walls, and is often found in Magpies nests; it smells rank like a Rat. The body and head measure sinches long, and the tail four; the eyes are black and full, and are surrounded with a large black spot which reaches to the base of the ears; the ears are oblong; the tail is surrounded with short hairs for more than half its length, and grows bushy at the end. It procreates in spring, and the semale produces five or fix young ones in summer.

587

4. Common Dormouse.—4. Myoxus Muscardinus. 4.

Of a tawny red colour, with a whitish throat; the thumbs or inner toes of the hind feet having no claws. Schreber, iv. t. ccxxvii.

Sciurus avellanarius, or Filbert Squirrel. Erxleb. mam. 433. n. 16.—Mus avellanarius, or Filbert Mouse, of a reddish colour with a whitish throat, having a long hairy tail, and the inner toes of the hind feet without claws. Syst. nat. ed. xii. i. 83. n. 14. Faun. Suec. 35. Pallas, Glir. 89. n. 34.—Mus avellanarum minor, or Lesser Filbert Mouse. Raj. quad. 220. Jonst. quad. 168. Aldrov. dig. 439.—Muscardin, Dormouse, or Sleeper. Sm. Buff. iv. 336. pl. xcv. Edw. av. t. 266. Penn. Synops. n. 219. Lever. Musc. Brit. 2001. i. 95.—Common Dormouse. Penn. hist. of quad. n. 289. Arct. 2001. n. 55.

Inhabits Europe.—Lives in thick hedges, woods, and copfes, making its neft of mofs, grafs, or leaves, in the hollow of a low tree, or near the bottom of a thick bush; it forms magazines of nuts, and feldom goes into gardens, or far from its retreat; at the approach of winter it retires, and becomes torpid till summer, but sometimes revives in a warm day, takes a little food, and relapses again. It is about the fize of a Mouse, but plumper, being about three inches long, and the tail, which is surrounded with short hairs and bushy at the end, is two inches and a half long; the ears are short, round, thin, and naked; the eyes are large, black, and prominent. It sits up on its hind legs when eating, using its fore paws to carry its food, and conceals what it cannot use; the semale brings three or four young ones at a birth.

XXX. JERBOA.-29. DIPUS. 26.

Has two fore-teeth in each jaw. The fore legs are very short, and the hind legs excessively long. The tail is long, and is tusted at the end.

The remarkable characteristic of this genus is the enormous length of the hind feet, and extreme shortness of the fore paws; from this conformation, instead of walking or running on all fours, they leap, or hop, on the hind feet like birds, making prodigious bounds, and only use the fore paws for burrowing, or for carrying their food to the mouth, like Squirrels. From this peculiarity of conformation the Kanguru, G. xix. sp. 15. and Phillip's Oposium, sp. 16. of the same genus, ought to have been arranged with this genus of the Jerboa, but, from a rigid adherence to artificial system, they are by Dr Gmelin ranked with the genus Oposium, on account of the number and arrangement of their teeth.

1. Common Jerboa. - 1. Dipus jaculus. 1.

Has four toes on all the feet, and a claw in place of a thumb, or fifth toe, on each fore foot. Schreber, iv. t. cexxviii.

Mus jaculus, or Leaping Mouse, with a long tail tusted at the end, four toes, and the rudiments of a fifth, on each fore foot, very long hind legs, and very short fore legs. Syst. nat. ed. xii. i. 85. n. 20. Mus. ad. Fr. ii. 9. Forskal, Faun. orient. 4. Hasselq. It. 198. Act. Stock. 1752, 123. t. 4. f. 1. Act. Ups. 1750, 17. Pallas, Glir. 87. n. 27. t. xx. Gesn. quad. 837.—Mus montanus. Moncon. Ægypt. 288.—Cuniculus pumilio saliens, or Dwarf Leaping Coney, with a very long tail. J. G. Gmel. Nov. com. Petrop. 1760, v. 351. t. 9. f. 1. Mus. Petrop. i. 344. n. 123.—Lepus, S. Cuniculus indicus, Indian Coney, or Hare, named Utias. Aldrov. dig. 395.—Jerboa, Gerboa, Daman Israel, Agnus filiorum israel, or Lamb of the children of Israel. Prosp. Alp. Ægypt. 232. Shaw, trav. 248. 376.—Egyptian, and Siberian Jerboa. Penn. hist. of quad. n. 291. and 292.—Jerboa, Gerboise, or Yerboa, and Alagtaga. Sm. Buss. Punn. hist. of quad. n. 291. and 292.—Jerboa, Gerboise, or Yerboa, and Alagtaga. Sm. Buss. Buss. Syst. nat. ed. ix. n. 4.—Erdhause. S. G. Gmelin, It. i. 26. t. 2.

Inhabits Egypt, Arabia, Calmuck Tartary, and fouthern Siberia.—Frequents firm, hard ground, and fields covered with grass and herbs; forms burrows of several yards long in a winding direction, leading to a large chamber about half a yard below the surface; from this a second passage is dug to within a very little way of the surface, by which they can escape when threatened with danger. When at rest they sit with their hind legs bent under their belly, and keep the fore legs so near the throat as hardly to be perceptible. They are not much as a fraid of mankind, and yet can scarce be thoroughly tamed; they feed on roots, grass, wheat, and other grains; and it is certain that those which inhabit Siberia cut grass before winter, which, having dried, they collect into roundish heaps, and carry into their holes, to serve as winter provision. The sless is eaten by the Calmucks and Arabs. The body is somewhat more than seven inches long; the hind legs and naked thighs are three times as long as the fore legs, and even longer than the body; the tail is ten inches long, of a pale tawny colour, and round for three quarters of its length, the last quarter is tusted with long hair disposed flat like that of the Squirrel, the first half of the tust being black, and the outer half white. The upper parts of the body are of a pale tawny colour, and the under parts white; the ears and feet are flesh coloured; the female has eight distantly placed teats.

2. Arabian Jerboa.—2. Dipus Sagitta. 2.

Has three toes on the hind feet, and has no thumb or fifth toe on the forepaws. Schreber, iv. t. ccxxix.

Mus fagitta. Pallas, Glir. 87. t. xxi. Do. It. ii. 706.

Inhabits Arabia, and near the Irtish in Siberia.—This animal frequents sandy plains; it is only about six inches long, and the tail, which is scarcely so long as the body, is terminated with a smaller tust than that of the preceding animal; the thighs are likewise thinner and less sleshy, and the soles of the hind feet and bottom of the toes are covered with a very thick coat of hair; the head is more rounded; and the ears are much longer than the head.

The Jerboa is evidently the Mus diass, of the Greeks, and Mus bipes of the Roman writers. In the account of these two species, I have implicitly followed Dr Gmelin, without endeavouring to reconcile the discrepancies between him and Mr Pennant, because even that celebrated naturalist seems not perfectly clear in his subdivision of the genus, so far as these last mentioned animals, the Egyptian, Siberian, and Arabian Jerboas, are concerned: That there are distinctions sufficient, at least, for estator.

Not. I.

590

blishing different varieties, is evident from Pennant's account; and the difference of country between Egypt, Syria, Arabia, Barbary, and Æthiopia, on the one hand, and Siberia, or North-east Asia, on the other, renders it highly improbable that the same animals should inhabit these distant regions, without being found in the intervening country. Without, however, endeavouring to settle the point, I have subjoined an abstract of Mr Pennant's division.—T.

A. Egyptian Jerboa. - Dipus aegyptius.

Has three toes only on the hind feet; and four toes, with a scarcely apparent thumb or fifth toe, furnished with a claw, on the fore paws. Penn. hist. of quad. n. 291. pl. xlii. f. 3.

This animal Mr Pennant supposes to be the Mus bipes of the ancients, Mus sagitta of Pallas, Jerbo of Bussion, and Daman Israel of the Arabs. He says, that it inhabits Egypt, Barbary, Palestine, the deserts between Basora and Aleppo, the sandy tracts between the Don and Volga, and the hills south of the Irtish. The fore part of the body is thin and slattened at the sides; the hinder parts large and swelling; the upper parts of the body and head are covered with long soft hair, of an ash colour at the roots, and pale tawny at the ends; the breast and belly are whitish; and an obscure dusky band crosses the upper parts of the thighs.

B. Siberian Jerboa. - Dipus sibericus.

Has three toes on the hind feet, and two spurious toes some way up the legs; five toes on the fore feet, the thumb, or fifth toe, having no nail. Penn. hist. of quad. n. 292.

Mus faliens. Nat. misc. pl. 38.

This species feeds much on the bulbs of the Lilium pomponii, and twigs of the Robinia carugna, is easily tamed, and, when in confinement, will eat raw sless and fowls guts. It is divided into the following varieties by the same great naturalist:

a. Great Siberian Jerboa. - D. sibiricus major.

Is eight inches and a half long, and the tail ten. Penn. hift. of quad. n. 292. a. pl. xlv.

The nose is truncated, and edged with white; the ears are large, pointed, tipt with white, and naked within; the upper parts of the body and thighs are covered with soft hair of a dark grey colour at the roots, and tawny at the ends; the breast, belly, and legs, are white. This variety is frequent, but chiefly frequents the country between the Caspian and the river Irtish.

b. Middle Siberian Jerboa. - D. sibiricus medius.

About the fize of a Rat, and of the same colour with the former, having a white line across the top of each thigh. Penn. hist. of quad. n. 292. β .

592

593

594

c. Smaller Siberian Jerboa. - D. sibiricus minor.

Of the same size and colour with the former, but having a more lengthened nose. Penn. hist. of quad. p. 429.

The ears are fhorter and broader; the tail is thicker, and not fo handfomely tufted; the hind legs are fhorter; and the fur is longer and thicker.—Thefe two varieties, b. and c. are found in the eaftern parts of Tartary and Siberia beyond Lake Baikal; also in Barbary, Syria, and India.

d. Pigmy Siberian Jerboa .- D. sibiricus pumilio.

Is far smaller than the two former varieties. Penn. hist. of quad. n. 292. y.

It refembles the first variety, a.; only that it wants the white circle on the nose; the tust on the tail is smaller, and is barely tipt with white.—This variety inhabits the same places with the first, or great variety, a.

3. Cape Jerboa.—3. Dipus cafer. 3.

Has four toes on the hind feet, and five before. Schreber, iv. t. ccxxx. Pallas, Glir. 87. n. 29.

Yerbua capeniis, or Cape Jerboa. J. R. Forster, and Sparrman, Act. Stock. 1778, ii. n. 3. and 4. t. 3. Miller on var. subj. t. xxxi. A. B.—Grand Gerboa. Allamand, in ed. Buff. Hol. xv. 118. Journal Histor. 59.—Cape Jerboa. Penn. hist. of quad. n. 293.

Inhabits the Cape of Good Hope.—This species is larger than any of the former, being fourteen inches long, the tail sifteen, and the ears three. On the upper parts of the body it is of a bright chefnut colour, interspersed with long hairs, having black tips; the lower parts are yellowish white; the head is more oblong than in the former species, the snout sharper, the ears longer, and the claws, especially on the fore fect, much longer; the tail is very hairy, and is tipt with black. This animal is called Aerdmannetje, or Little Earth Man, and Springen Haas, or Leaping Hare, by the Dutch at the Cape; it is very strong, and leaps twenty or thirty feet at one bound; it burrows with its fore feet; it sleeps sitting on its hind legs, with the knees separated, the head between the hind legs, and holding its ears with the forc paws over its eyes. It is caught by pouring water into its hole, which forces it to come out; has a grunting voice; and is eaten by the natives.

4. Caspian Jerboa. -4. Dipus meridianus. 4.

Has five toes behind, and three before, with the rudiments of a thumb or inner toe. Schreber, iv. t. ccxxxi.

Mus longipes, or Long-legged Mouse, having five toes behind, four before, very long hind legs, and a long hairy tail. Syst. nat. ed. xii. i. 84. n. 19. Palias, Glir. 88. n. 30. t. xviii. B. Mus. ad Fr. i. 9.—Mus meridianus, or Southern Mouse. Pallas, It. ii. 702.—Jaculus, or Jerboa, with four toes before and five behind. Erxleb. mam. 409.—Torrid Jerboa. Penn. hist. of quad. n. 294.

M m 2 Inhabits

596

597

Inhabits the fandy deferts, between the Ural and Volga, near the Cafpian.—This animal forms burrows, with three entrances, about a yard in depth; and feeds chiefly on the feeds of the Pterococci and Aftragali. It is fearcely five inches long, and the tail, which is thick and only feattered with hair, is not quite three: The upper parts of the body are of a pale tawny, or yellow colour, fometimes brownish; the lower parts are white; and the hind part of the body is confiderably thicker than the fore parts: The head and snout are more lengthened than in the Common Jerboa; the neck is remarkably short; the ears are large, oval, and naked; the circumference of the mouth and the feet are white; the soles of the feet are thickly clothed with fur; the thumbs of the fore paws have scarcely any claw; the hind thighs are very thick, strong, sleshy, and have little hair.

5. Marsh Jerboa. - 5. Dipus tamaricinus. 5.

Has five toes behind, and three before, with the rudiments of a fourth; the tail is obfcurely annulated. Schreber, iv. t. ccxxxii.

Mus tamaricinus, or Tamarisk Mouse. Pallas, Glir. 88. n. 31. t. xix. Do. It. ii. 202.

Inhabits the falt marshes near the Caspian Sea.—This species probably feeds on the fruit of the Tamarix and Nitrarium, which grow in these marshes; and, under the roots of these trees, it forms very deep burrows, which have two entrances: It is a very elegant little animal, about five inches and a half long, from the nose to the rump; the tail is about the same length, and is covered with hair, having a slight bushyness at the extremity; the upper parts of the body are of a yellowish brown grey colour, and the under parts white; the ears are large, oval, and almost naked; the fore paws have each a remarkable protuberance in place of the thumb, or inner toe.

6. Labradore Jerboa.—Dipus labradorius.

Has four toes before and a tubercle instead of a thumb; four long slender toes behind and a short thumb or great toe: The tail is taper, slender, and almost naked.

Labradore Jerboid Rat. Penn. hift. of quad. n. 295. Arct. zool. n. 63. Mus. of the Roy. Soc.

Inhabits Hudson's Bay and Labradore.—This species was sent over from Hudson's Bay by Mr Graham: The nose is blunt, and the mouth is placed much underneath, having a divided upper lip; the ears are large, rounded, and naked; the body and head are little more than three inches long, and the tail is four inches and three quarters; the upper parts of the body are of a deep brown colour; the under parts are white, and divided by a longitudinal yellow line, on each side, from the brown colour of the back.

7. Circassian Jerboa. - Dipus circassicus.

Of a chesnut colour, with the body considerably lengthened and equally thick; the tail long and bushy.

Circassian jerboid Rat. Penn. hist. of quad. n. 295. A.

Inhabits the neighbourhood of the river Terek in Circaffia.—Is about the fize of the Hamster; the ears are like those of a Mouse; the eyes are red and sparkling; the teeth are sharp; the hair is long, especially

599

especially on the back; the claws are sharp; the fore legs are shorter than the hind legs. This animal burrows in the ground, and runs much faster up hill than down.

XXXI. HARE.—30. LEPUS. 22.

Has two fore-teeth in each jaw; in the upper jaw is a fecond inner row of fore-teeth which are confiderably smaller than the outer or primaries. The fore feet have each five, and the hind feet four toes.

The animals of this genus are all remarkably timid, and live entirely on vegetable food; they use the hind feet in walking as far as the heel, and run by a kind of leaps or repeated bounds. They have either exceedingly short tails, named feuts, or none at all.

* With tails.

1. Peruvian Hare .- 1. Lepus Viscaccia. 5.

Has a longish tail, beset with bristles. Molin. hist. nat. Chil. 272.

Vizcacha. Laet, Amer. 407.—Vifcacha. Nieremb. hift. nat. 161.—Vifcachos. Feuille, obfiii. 32. Acosta, ap. Purch. pilgr. iii. 966. Garcilasso de la Vega. 331. Penn. hist. of quad. p. 376.

Inhabits the plains, and bases of the mountains, in the colder parts of Peru and Chili.—The fur of this animal is of a mouse colour, and so fine and soft, that, in the time of the Incas, it was wove into cloth for the Peruvian nobles, and is still employed for bonnets by the Chilese. In general appearance and manners, it resembles the Rabbit, and digs holes under ground, having two contiguous chambers, in one of which it sleeps, and the other, which is lower, it employs for eating its provisions, which are collected in the night time; the tail is bushy, and much longer than in any other species of the genus, it turns up in general, and is employed as a weapon of defence, but in what manner we are not informed.

2. Common Hare.—2. Lepus timidus. 1.

Has a very short tail; the ears are longer than the head, and black at the ends. Faun. Suec. 25. Schreber, iv. t. ccxxxiii. A.

Lepus. Pliny, viii. c. 55. Gefn. quad. 69. Aldrov. dig. 247. Jonff. quad. t. 65. Raj. quad. 2045-Erxleb. mam. 325. n. 1. Klein, quad. 51. Briff. quad. 94.—Lievre, or Hare. Sm. Buff. iv. 137—pl. lviii.—Hafe. Riding. jagdb. Th. t. 13.—Common Hare. Penn. hift. of quad. n. 241. Briff. 2001. i. 87. Lever, Muf..

бо2

600 β. Horned Common Hare.—Lep. timidus cornutus. 1. β.

Has flightly branched horns. Probably fabulous or artificial. Schreber, iv. t. ccxxxiii. B.

Lepores cornuti, or Horned Hares. Klein, quad. 52. t. 3. Gefn. quad. 634. Muf. reg. Hafn. n. 48. t. iv. Muf. Worm. 321. Grew, Muf. Roy. Soc. Pallas. Penn. hift. of quad. p. 369.

y. Yellow Common Hare.—Lep. timidus melinus.

Of a straw colour; of the same size with the Hare, and runs like it. Cook, voy. iii. 565. Penn. hist. of quad. n. 369.

A very full history of the Hare is to be found. Lagographia W. Waldungii, Amberg. 1679, and C. F. Paullini. Vienn. 1691.—Its anatomy. E. N. Cur. d. 1. a. 2. obf. 251. and a. 3. obf. 93. and d. 3. a. 5. obf. 225. and Bartholin. act. Hafn. 1671, n. 136.

Trihabits every where in Europe, more plentiful in Bulgaria than in other parts; in the northern parts of Perfia, in Japan, Ceylon, and almost the whole of Asia; in Egypt, and Barbary; in North America, and even in Chili.—The Hare is a very timid animal, entirely deftitute of weapons, very quick in both the fenses of hearing and of fight, and very swift, especially in running up hill; when hunted it runs in a circular direction, gradually leffening the circuit, and often doubles back parallel to its path, leaping to a great diftance at the turn, on purpose to throw off the dogs. It feeds only by night, chiefly on the twigs and bark of shrubs and young trees. It is hunted for sport with dogs or hawks, and, in India, with fome species of the Cat genus. The Hare is faid to be fond of the found of a drum, and is much infefted with fleas; it does not burrow, but makes a kind of neft, called by fportsmen a form, among bushes or long grass; its urine is very fetid, which it takes care not to void in its nest. It does not pair, but breeds often in the fummer and spring, the male pursuing the female when in feafon by the fcent; the female has a large clitoris, and, after going thirty or one and thirty days, brings three or four at a litter; fuperfetation is not uncommon, as they are very lascivious. The body and head measure about two feet long, and weigh between eight and nine pounds when full grown, fometimes, though rarely, twelve: The head is oblong, and shaped like an egg, having long ears tipt with black, large, prominent, black eyes, which are placed much outwards, are provided with a membrana nicitians, and remain open even when the animal is afleep; the end of the nofe is moveable, and always moift; the chin is white, and the fnout is furnished with long white whifkers; the upper lip is divided: The fur on the face, back, and fides, is white at the roots, black in the middle, and tawny red at the ends; the breaft and throat are reddifh; the belly is white; the tail is black above, and white beneath; the hind thighs are strong, thick, and fleshy, with a cavity on each fide at the pubes; the feet are thickly covered with hair on the foles. The Hare is fond of birch, parfley, and pinks; its flesh was forbidden by the Druids, and was held in great efteem by the Romans, as it ftill is by the inhabitants of modern Europe, as, though very black, dry, and devoid of fat, it is high flavoured.

3. Varying Hare. - 3. Lepus variabilis. 6.

Has a very short tail; the ears are shorter than the head; the whole fur grows white in winter, except the tips of the ears, which remain black. Pallas, Glir. P. i. t. iv. f. 1. Schreber, iv. t. ccxxxv. B.

Lepus

605

Lepus albus, or White Hare. Briff. quad. 139. n. 2. Aldrov. dig. 349. Wagn. helvet. 177.—Lepus albiffimus. Klein, quad. 51.—Lepus candidus. Jonft. quad. 160.—Alpine Hare. Forster, Phil. Trans. lxii. 375. Penn. Syn. p. 249. n. 184. Brit. 2001. illust. 40. t. xlvii.—Varying Hare. Penn. hist. of quad. n. 242. pl. xl. f. 1. Arct. 2001. n. 37.

603 β. Spurious Varying Hare.—Lep. variab. hybridus. 6. γ.

The fides only turn white in winter. Schreber, iv. t. ccxxxv. C.

Spurious varying Hare. Penn. hift. of quad. n. 242. a.-Ruffak. Pallas, Glir. P. i. p. 15.

Inhabits the coldeft and most hilly parts of Europe and Asia; as Scotland, Norway, Lapland, Ruffia, Siberia, Kamtschatka, Greenland, and in America about Hudson's Bay and Labradore. - The fpurious variety is a mixed breed, between the Varying and Common species, which sustains in winter only a partial change of colour on the fides and more exposed parts of the ears and legs: It is only found in the fouthern and western parts of Siberia. Sometimes in autumn the Varying Hare collects in flocks of five or fix hundred; driven from the mountains of Ruslia and Siberia, they migrate in quest of subsistence into the lower country, and return again in spring. It is larger than the Common Hare by four inches in length, according to Dr Gmelin, though Mr Pennant fays that it is lefs; probably those of Scotland are finaller than the Russian. In summer the head is of a greyish tawny; the ears and back tawny mixed flightly with black; the neck verges to ash colour; the fides grow gradually whiter from the back downwards; and the belly is white; the foles are black and very thickly clothed; fometimes, in Siberia, they are yellow: The flesh of this species is harder, drier, and less flavoured, than that of the Common kind. The fur of the Spurious variety is very much like that of the Common species in winter. The Varying Hare keeps on the tops of the highest hills, and almost never mixes with the Common species; it does not run swiftly, and takes shelter, when purfued, in the clefts of rocks; it is eafily tamed, and very frolicfome; is fond of honey and fweetmeats; eats its own dung before a storm; changes to white in September, and recovers its grey colour in April; and is subject to these changes even when kept in a warm room: In Greenland it is, always white,

4. Black Hare. - Lepus niger.

Has a very short tail; the fur is entirely black, or very dark tawny, the whole year.

Syst. nat. ed. Gmel. 16. n. 6. s.

Lepus niger, or Black Hare. Briff. quad. 139. n. 3. Klein, quad. 52. Penn. hift. of quad. P. 371.

Inhabits Siberia, and the government of Caffan.—This is much larger than the common kind, and is very gloffy.

5. American Hare. - 4. Lepus americanus. 7.

Has a very fhort tail; the hind legs are a half longer than the body; the tips of the ears and of the tail are grey. Erxleb. mam. 330. n. 2. Schoepf. Naturf. xx. 39.

Lepus hudsonius, or Hudson's Bay Hare, with the tips of the ears and tail grey. Pallas, Glirago.—Hudson's Bay quadruped. Barrington, Phil. Trans. lxii. 11.—Hare, or Hedge Coney. Lawfon, Carol. 122. Catesby, app. xxviii.—American Hare. Forster, Phil. Trans. lxii. 376. Penn. hist. of quad. n. 243. Arct. 2001. n. 38.

Inhabits North America.—In New England, Canada, and farther north, this species gets a long, filky, silver-white coat of fur, during winter, the edges of the ears only remaining grey; to the south it retains the whole year a short fur of an ash colour mixed with rusty and black, on the neck and body, the legs pale ash colour, and the belly white. It is smaller than the Common Hare, being only eighteen inches long, and weighs from three pounds to four and a half; it takes shelter in hollow trees and under fallen timber, and breeds once or twice a year, producing from five to seven at a litter: The fore legs are proportionally shorter, and the hind legs considerably longer, than those of the common kind.

606

6. Baikal Hare .- 5. Lepus Tolai. 8.

Has a short tail; the edges of the ears are black. Pallas, Glir. 17. t. 4. f. 2. Schreber, iv. t. ccxxxiv.

Lepus dauricus, or Daurian Hare, having a longish tail, and a black throat. Erxleb. mamm. 335.—Cuniculus leporinus, or Hare-like Coney, of the same colour with the Common Hare, and having a longish tail. J. G. Gmelin, nov. com. Petrop. v. 357. t. ii. f. 2.—Lepus, having the upper part of the tail black, and the under part white. Briss. quad. 97.—Baikal Hare. Penn. hist. of quad. n. 245.—Tolai, or Baikal Hare. Sm. Bust. viii. 228.

Inhabits the country beyond lake Baikal, in the defert of Gobi, and as far as Thibet.—This species is called *Tolai* by the Monguls, and *Rangwo* by the Tanguts; it is larger than the former species; in summer it is very much of the same colour with the summer coat of the Varying Hare, and in winter turns only a little paler; the legs are likewise smaller than in that species, and the hind legs are longer; the tail is longer than that of a Rabbit, but shorter than that of the Common Hare, and, like it, is black, especially at the root. It agrees with the Rabbit in the whiteness of its sless, but does not burrow; it runs straight forward when pursued, and takes shelter as soon as possible in the holes of rocks.

607

7. Chilese Hare. - 6. Lepus minimus. 9.

The tail is very short; and the ears are of an uniform colour. Molin. hist. nat. Chil. 272.

Inhabits the kingdom of Chili.—This species is very small, not exceeding the fize of a small Rat; the body is of a conical form, the ears are small and sharp pointed, the snout is lengthened, and, if it be not an error of Molina or his printer, the fore feet have four toes each, and the hind feet five; the fur is exceedingly fine, but very short; the sless white, and very good eating. This species refembles the domestic Rabbit, in the variability of colour, and in proliseness, producing almost every month, six or seven young ones at a time, and is domesticated in Chilis

610

612

8. Cape Hare.—8. Lepus capensis. 3.

The tail is bufly, and as long as the head; and the feet are red. Penn. hift. of quad. n. 246. J. Burmannus.

Inhabits the country three days journey north from the Cape of Good Hope.—Dwells in the fiffures of rocks, and does not burrow: The ears are long, dilated in the middle, the outfides being naked and rofe coloured, the infides and edges covered with fhort grey hairs; the crown of the head and the back are of a mixed dufky and tawny colour; the cheeks and fides are afh coloured; the breaft, belly, and legs, are ruft coloured; the tail, which is bufhy and carried upwards, is of a red-difh or pale rufty colour. This animal is about the fize of a Rabbit, and is probably the fame that is mentioned by Adanfon as found in Guinea, which he fays is fmaller than the common kind, is of a colour between that of the Hare and Rabbit, and has white flesh.

9. Common Rabbit .- 7. Lepus Guniculus, 2.

Has a very short tail almost of the same colour with the body; the ears are black at the points; and the hind legs are shorter than the body. Pallas, Glir. 30. Erxleb. mam. 331. n. 3. Schreber, iv. t. ccxxxvi. A.

Lepus Cuniculus, or Rabbit, with a very short tail, and naked ears. Syst. nat. ed. xii. i. 77.—With a short tail and red pupils of the eyes. Syst. nat. ed. ii. 46. D°. ed. vi. 9. n. 3. Mus. ad. Fr. i. 9.—Of a dusky grey colour. Briss. reg. anim. 140. n. 4.—Cuniculus. Pliny, viii. c. 29. 55. 58. Aldrov. dig. 382. f. p. 385. Agric. an. subt. 16. Gesn. quad. 394. Jonst. quad. 161. t. 65. Raj. quad. 205.—Kunin. Faun. Suec. n. 26.—Lapin sauvage, or Wild Rabbit. Sm. Buss. iv. 155. pl. lix.—Rabbit. Penn. hist. of quad. n. 244. Brit. 2001. i. 90.—The anatomy. Perv. obs. 10.

609 α. Wild Rabbit.—L. Cuniculus ferus.

Of a brownish grey colour.

β. Black tame Rabbit.—L. Cun. domesticus niger.

Of an uniform black colour.

Of an uniform white colour, with fiery red eyes.

of a pied or mottled black and white colour. Sm. Buff. iv. 155. pl. lx.

613 s. Silvery tame Rabbit.—L. Cun. domesticus argenteus.

Of a filvery grey or ash colour, with tawny feet. Briff. reg. an. 191.

Silver-haired Rabbit, Sm. Buff. iv. pl. lxi. Vol. I.

Inhabit naturally the warmer parts of Europe, Afia, and Africa; are not natives of Britain, but have for ages been here in great numbers, both wild and tame. Dwells principally in dry fandy foils, in which it forms long winding burrows; it keeps in these holes in the middle of the day, and goes out in the evening, night, and morning, in quest of food; seeds upon all kinds of green vegetables and grain; its sless white and much esteemed, especially that of such wild ones as feed on juniper. The semale breeds six or seven times a year, going thirty or thirty-one days with young, and brings from four to eight at a litter; they come to their full size in six months, and live about eight or nine years; the male is very salacious, and is apt to destroy the young ones: They are preyed on by hawks, badgers, and polecats, and are caught by means of terriers, nets, and serents. Numbers are bred in a wild state in places set apart for the purpose, called warrens; and great numbers are bred in houses in a domestic state. The Rabbit is considerably smaller than the Hare, being scarcely eighteen inches long; the ears are shorter than the body; the wild variety is of a brown ash colour, having the upper part of the tail black, and the under part white. The fur of the silvery variety is valuable.

614

10. Hooded Rabbit.—Lepus saccatus.

Has a double fold of the skin behind the head, and another under the throat. Syst. nat. ed. Gmel. 165. n. 2. %.

Hooded Rabbit, or Russian Rabbit. Penn. hist. of quad. n. 244. γ . pl. xl. f. 2.—Lepus cuniculus russicus. Syst. nat. ed. Gmel. i. 164. n. 2. d.

Its place unknown.—This animal is described by Mr Pennant from a drawing in the British Mufeum by Mr Edwards, and is called by him a Russian Rabbit, but it is unknown in that empire. It is of an ash colour with brown head and ears; the fold of the skin behind the head admits of the head being drawn back and concealed within it, and there are two holes in the fold for the eyes; that below the throat receives the fore feet occasionally.

615

11. Angora Rabbit .- Lepus sericeus.

Is covered with long, waved, filky hair. Schreber, iv. t. ccxxxvi. C.

Lepus cuniculus angorensis, or Rabbit of Angora, having a tail, and covered with very fine and long hair. Briff. quad. 141. n. 6. Syst. nat. ed. Gmel. 163. n. 2. 7.—Angora Rabbit. Penn. hist. of quad. n. 244. \(\beta\).—Lapin d'Angora, or Angora Rabbit. Sm. Bust. iv. pl. lxii. and lxiii.

Inhabits Angora, in Asia Minor.—This is an exceedingly beautiful animal on account of its fine, white, filky fur, which is a valuable article in commerce. It is a very fingular circumstance, which cannot be at all accounted for, that this animal the Rabbit, the Cat of Angora, already described, and the Goat of the same place, to be described hereafter, are all adorned with a similar filky clothing of long sine hair.

** Having no tails.

516

12. Brasilian Hare.—9. Lepus brasiliensis. 4.

Has very large ears, no tail, and, for the most part, a white ring or collar round the neck. Pallas, Glir. 30.

6.18

283

Lepus brasiliensis, or Brasilian Hare, having no tail. Syst. nat. ed. ix. n. 1. D°. xii. 78. n. 4. Briss. quad. 97.—Cuniculus brasiliensis, or Brasilian Coney, named Tapeti by the natives. Marcgr. Bras. 223. Piso, Bras. 102. Raj. quad. 205. Sm. Buff. viii. 276.—Citli. Fernand. Mexic. 2.—Brasilian Hare. Penn. hist. of quad. n. 247.—Collared Rabbit. Wafer, in Damp. voy. iii. 401.

Inhabits South America, and Mexico.—Is of the fame colour and magnitude with the Common Hare, but darker, with fimilar large ears; refembles the Rabbit in general appearance; fome individuals want the white ring round the neck, fo that the species is principally diffinguished by the want of tail. It lives in the woods, does not burrow, and is very good eating.

13. Calling Hare.—10. Lepus pufillus. 10.

Has no tail: The ears are triangular, and white at the edges; the upper parts of the body are of a dark brown, mixed with blackish grey, and the under parts hoary. Schreber, iv. t. ccxxxvii.

Lepus pufillus. Pallas, Glir. 30. 45. t. 1. and t. 4. f. 3. 9. and Nov. com. Petrop. xiii. 534. t. 14. and It. i. 155. ii. 533. iii. 498. Lepechin, It. i. 260. Zimmerman. Mant. pl. ii. 522. Erxl. mam. 338. n. 8.—Calling Hare. Penn. hift. of quad. n. 250.

Inhabits the fouthern extremity of the Ural mountains, about the Irtish, and on the sunny hills. to the fouth of the Altaic chain. - It delights in funny vallies, and hills that are covered with grafs; and feeds chiefly on the flowers and bark of the Cytifus fupinus, Robinia frutescens, Cerasus pumila, and Malus fylvestris; digs holes in dry places, amid bushes, and leads a very retired life, seldom going to any distance from its burrows; these are long and intricate, with a very small entrance. They are discovered by means of their voice, which is very loud and sonorous, like the piping of a quail, and may be heard to a great distance; it is repeated, at just intervals, three, four, or even fix times, mostly at night and morning, and never in winter or in bad weather. This is a gentle animal, and is eafily tamed; it fleeps tittle, but drinks frequently; and is most active in the night time: Its pace is not at all quick, and is by leaps, as if the loins were very weak. The body is little more than fix inches long, and weighs about four ounces and a half in fummer, though fearcely two and a half in winter; the outer fur is harfh, and of a pale grey tipt with black on the upper parts of the body; the lower parts of the fides and the feet are pale yellowish, the breast and belly are whitish or hoary, and the throat is hoary; under this is a very copious coat of very foft, long, and fine down, of a brownish lead colour: The head is more lengthened than that of any of the preceding species of this genus, with dark eyes like those of a Rat; the body is slender, weak, and unsteady; and the legs are: fhort.

14. Mountain Hare. - 11. Lepus alpinus. 11.

Has short rounded ears, and no tail; is of a bright bay colour, with brown ears and hind feet. Schreber, iv. t. ccxxxviii.

Lepus alpinus, or Alpine Hare. Pallas, It. ii. 569. 701. t. A. D°. Glir. 30. and 45. 59. t. 2.. and t. 4. f. 10. 12: Zinmerman. Erxl. mam. 337. n. 7. Penn. hift. of quad. n. 248. Arct. zool. i. n. 39.—Muftela daurica, or Daurian Wrafel, with a reddiff back, a fhort thick body, and no tail, called Ochodona daurica anaurinos. Catal. muf. Petrop. 343. n. 114. 115.

N n 2.

Inhabits the Altaic chain of mountains, to the extremity of Afia, and beyond the Lena and Jenifei. - Dwells in the most rugged and inaccessible shelves of the mountains, forming burrows in the clefts of the rocks, or living in the hollow trunks of decayed trees; in thefe it lies during the day, except in cloudy weather, when it collects into finall flocks on the rocks; the voice or cry refembles a loud whiftle. In the month of August they cut down great quantities of fost tender grass and other herbs, chiefly the Gramen fylvaticum, which they fpread out to dry, and in September they collect this hay into regular conical ricks round the trunk of a tree, or place it in heaps under the fhelter of rocks; these are covered by the snow in winter, and the animals form a trodden path from their holes to the magazine by which they go to feed: Sometimes these ricks are as high as a man, and many feet diameter; but usually they are only about three feet; they are often of vast fervice to the hunters, as provender for their horses, which would otherwise sometimes perish, in those inhospitable regions, for want of food. The Mountain Hare is preyed on by Sables and Siberian Weafels, and is much infefted by the Oestrus leporinus, a species of gad-fly, which lodges its eggs in their fkins, and often deftroys them. The general appearance of this animal is more dull and wilder than the Calling Hare; the body is shorter and more big bellied; the head is longer and more flender, with large, broad, but fhort, rounded ears, very long whifkers, and fmall black eyes; the under parts of the body are of a dirtier white; the female has two teats on the groin, and four on the breaft; the upper part of the throat is somewhat ash coloured; the fur of the body is dusky at the roots, and of a bright ferruginous or bay colour at the ends, flightly tipt with white, and intermixed with long dufky hairs; but at first fight seems of a bright unmixed bay colour. It varies in fize from feven to nine and a half inches long, and weighs from one pound and a quarter to four ounces.

619

15. Ogotona Hare.—12. Lepus Ogotona. 12.

Has oblong, oval, fomewhat pointed ears, of the fame colour with the body, which is pale grey; no tail. Schreber, iv. t. ccxxxix.

Lepus Ogotona. Palla, Glir. 30. 59. 70. t. 3. and t. 4. f. 14. 16.—Ogotona Hare. Penn. hift. of quad. n. 249.—Muftela mungalica, Mongalian Weafel, or Ochodona mungalica, of Mefferschmid; with a short body, and having no tail. Cat. mus. Petrop. i. 343. n. 112.

Inhabits the mountains beyond Lake Baikal, and all Mongalia, especially the great desert of Gobi.—This animal dwells sometimes in rocky places among heaps of stones, or forms burrows in fandy places with two or three entrances; these are dug in an oblique direction, and the old semales, for security, form many of these near and connected together. They go about mostly at night; the voice is exceedingly sharp and clamarous, somewhat like the chirp of a sparrow, twice or thrice repeated, but very easily distinguished from that of the preceding species; they feed mostly on the bark of the Fyrus baccata, and on the suckers of the dwarf Elder, and in spring on various herbs which grow in the sandy soil; these, like the Mountain Hare, they tollect, in autumn, into heaps for winter provision. This is a very nimble animal, which is scarcely capable of being tained: It is preyed on by various species of the weafel tribe, by the Manul cat, by hawks of different kinds, woodpeckers, and owls: It differs from the Calling and Mountain Hares chiefly in size, being about six inches and a half long; the semale weighs about four ounces, and the male about seven; from the Calling Hare, which it most resembles, it differs in being of a much paler colour, which is uniform the whole year, in having stronger legs, and by the figure and dusky colour of the cars: The fur is intermixed with

a few dufky hairs; the nose has a yellowish spot, and the space about the rump is of the same colour, as are the outsides of the limbs; the belly is white; the sur of the body is brown at the roots, light grey in the middle, white at the tips, and interspersed with a very few dusky hairs. It procreates in spring, and the young ones are fully grown by the end of June.

XXXII. A S H K O K O.—31. $H \Upsilon R A X$.

Has two broad and distant fore-teeth above; four contiguous broad, slat, notched fore-teeth below; and four large grinders on each side in both jaws. The fore feet have four toes; the hind feet only three. No tail; and no collar bones.

The English generic name of this animal is borrowed from Mr Bruce, the celebrated Abyshinian traveller, who describes one species of this genus. In the former editions of the Systema Naturae, and by several ingenious naturalists, the first species is considered as belonging to the Cavy genus; the second species is newly discovered.

1. Cape Ashkoko. - 1. Hyrax capensis. 1.

Has flat nails on all the toes, except one toe of each hind foot which is armed with a sharp pointed claw. Schreber, iv. t. ccxl.

Cavia capensis, or Cape Cavy, having no tail, and four teeth in the lower jaw. Erxleb. mam. 352. n. 3. Syst. nat. ed. xii. iii. 223. Pall. miscel. zool. 34. t. 3. and 4. f. 5. 13. Do. spic. zool. fasc. ii. 16. t. 2. 3. Penn. hist. of quad. n. 239.—Bastard African Marmot, or Rock Badger. Voesmaer, ap. Busson.—Cape Marmot. Sm. Buss. iv. 348. pl. xcix.—Klipdas. Gr. a Mellin, schr. der Berl. naturs. iii. 271. t. 5.

Inhabits the Cape of Good Hope.—This animal is about the fize of a Rabbit, being about fifteen inches long; the head is fhort, with the back part very thick, and the fnout very fhort and blunt; the eyes are fmall; the ears are oval and open, brown, woolly, and half hid in the fur; the legs are very fhort, the upper joints of both being concealed beneath the fkin; the hind legs are rather longer than the fore; the feet are large, black, and naked: The body is fhort, thick, and contracted, with a prominent belly, and is covered with a foft woolly fur, of a yellowifh brown or greyifh colour, hoary at the roots; the fides are of a dirty whitifh grey; and along the back is a brownifh ftripe; this fur is interfperfed with longer and coarfer black hairs, and a few very coarfe long briftles. The fore feet have four fhort, fcarce divided, thick toes, furnished with flat nails; the two outer toes of the hind feet are fimilar, but the inner toe is longer, and has a fharp claw. This animal has a fharp voice, and acute fense of hearing; its gait is very wavering and unsteady, owing to the shortness of its thighs and unequal length of the hind and fore legs, notwithstanding of which it is very active, and moves by leaps; it is very cleanly, lives entirely on vegetable food, drinks little, is fond of heat, and burrows in the ground. In manners and general appearance this animal refembles

fembles the Marmot and Cavy; in the conformation of its toes it has fome analogy with the Maucauco; but from the circumstances of the teeth it cannot be ranked with the last; and the peculiarity of the feet has caused Dr Gmelin to separate it from both of the former.

2. Syrian Ashkoko.—2. Hyrax fyriacus. 2.

Has foft tender nails on all the toes. Schreber, iv. t. ccxi. B.

Afhkoko. Bruce, Abyff. v. 139. and fig.

Inhabits Syria and Ethiopia.—The body of this species is more lengthened than that of the former, and the snout more oblong. The fur is of a reddish grey colour, like that of the Wild Rabbit, the throat, breast, and belly, being white; all over the body a number of long, strong, and polished hairs, are scattered among the fur: The body and head of the individual described by Mr Bruce measured seventeen inches; the ears are broad, open, and rounded; each side of the mouth is garnished with long whiskers; in walking, which is performed creeping low with the belly almost touching the ground, the hind feet are used as far as the heel; all the toes have short, broad, weak, stat nails, except the inner toe of the hind foot, which is provided with a flat crooked nail somewhat longer than the rest; the soles of the feet are formed of sleshy naked protuberances, divided by surrows. It lives mostly about the mouths of caves or clefts in rocks, is gregarious, feeds entirely on vegetables, is mild, feeble, timid, and easily tamed, and has no voice or cry. Mr Bruce is of opinion that this animal is the Gannim, or Daman Israel, of the Arabs, and the Saphan of facred scriptures, which has erroneously been translated the Rabbit. Its slesh is very white, but is not eaten by the Abyssinians or Mahometans. The same celebrated traveller is of opinion that it ruminates, or chews the cud.

V. PECORA.

Have no fore-teeth in the upper jaw; the lower jaw has fix or eight fore-teeth, which are placed at a confiderable distance from the grinders. The feet are armed with hoofs. The teats of the females are fituated on the groins.

All the animals of this order have four ftomachs, already described among the characters of the orders, in the introduction to the class of Mammalia; in consequence of this structure they all feed on vegetable food, and ruminate, or chew the cud; that is, having swallowed their food almost whole, while feeding, it remains for some time in the first stomach, where it is macerated in the gastric juice, and afterwards, when the animal is at rest, it is brought up in mouthfuls, is fully chewed, and again swallowed for digestion. They are likewise all hoosed, or have their feet armed with horny shoes, without toes and claws; these hooss are divided by a cleft in the middle into two portions; and besides these all except the Camel have two looser sales hooss, on the back part of each foot, which do not reach the ground in walking. Such of them as have horns have no tusks, and those which have tusks want horns *. Most of them are subject to a kind of balls in their stomachs, formed of hair licked off their bodies and swallowed; these are named Aegagropila.

XXXIII. CAMEL.—32. CAMELUS. 27.

Has no horns. In the lower jaw are fix thin broadish cutting teeth; at some distance from those and from the grinders there are two tusks on each side in the lower, and three in the upper jaw. The upper lip is divided.

1. Arabian Camel.—1. Camelus Dromedarius. 1.

Has one hunch on the back. Briff. quad. 45. Raj. quad. 143. Forsk. faun. orient. P. iv.

Καμηλος Λομθίος. Arift. hift. an. lib. ii. c. 1.—Camelus Arabicus. Plin. lib. viii. c. 18.—Camelus dromas. Gefn. quad. 171. f. p. 172. Pr. Alp. Æg. i. 223. t. 1.—Camelus. Jonft. quad. 95. t. 41.

42

^{*} Linnaeus mentions one solitary objection to this rule, having seen the skull of a Roe which had both horns and tusks.

42. 43.—Dromedarius. Gefn. thierb. 234. f. p. 234. Charlet. exerc. 13.—Dromedaire, or Dromedary. Sm. Buff. vi. 118. pl. clv.—Arabian, or One-bunched Camel. Penn. hift. of quad. n. 58. pl. xiii. f. 1.

Inhabits, in a wild state, the deferts of Arabia and Africa, and the temperate parts of Asia; is found, though not in great numbers, on each fide of the Songar mountains, towards the river Ilus, Mount Musart, Mongalia, and the southern parts of Siberia; is domesticated and broke in for the uses of man all over the East, and in Africa, and has likewise been bred in Jamaica and Barbadoes.-This species is subject to numerous varieties in size and colour; it is generally of a reddish ash, sometimes white or cream coloured; is a mild and gentle animal, except when in feafon, or when infefted by the Oestrum, a species of gad-sly; is wonderfully adapted for journying in dry sandy deserts, being remarkably patient both of hunger and thirst, fasting almost entirely for whole days, and putting up with the dry branches of fuch spinous shrubs as grow in the desert, which no other animal of burthen could use; and will likewife go on, without drink for many days, nature having endowed it with the inftinct of storing up a quantity of water, on these occasions, in a particular stomach: It is capable of carrying very large burthens, even a thousand or twelve hundred weight, but travels flowly, and cannot be forced to quicken its pace, neither will it receive more on its back than its accuftomed load; it kneels down to be loaded or unloaded at the command of its keeper. The hair of the Camel is very foft; it is fliort in fummer, but longest on the neck and hunch; in winter it grows confiderably longer, and falls off in the fpring, being carefully collected by the Arabs and wove into cloth, or made into felts, either for clothing or for tent cloths. This species is usually about fix feet and a half high, with a finall head, and fhort ears; the roof of the mouth and gums are covered with a tough cartilaginous skin; the neck is long, slender, and reversely arched; the feet are half cloven on their upper parts, the two toes being armed with a kind of fmall hoofs, but the foles are undivided, and are covered with a naked tough skin. On the breast, on each knee, on the infide of each fore leg, and at the upper joint of each hind leg, are callofities, in all feven, on which the animal refts when it lies or kneels down; the tail is confiderably fhorter than the hind legs, and is covered with roughly flowing hair: The male is retromingent, and his commerce with the female is difficultly attained.

On an individual of this species, shewn some years ago at Edinburgh, was observed a peculiar conformation of the skin of the neck a little behind the head; a space about three inches by sour, was full of minute open pores, apparently the ducts of miliary glands, from which a heavy smelled aqueous fluid could be pressed out in abundance. It is uncertain whether this be common to the whole race, or accidental; perhaps it is a provision of nature to carry off the perspirable matter, by a partial emunctory, to save the vast waste which general perspiration must occasion, in the torrid and waterless deserts of Asia, Arabia, and Africa.—T.

β. Swift Camel. - Camelus dromos.

This variety refembles the former, but is much smaller. Penn. hist. of quad. p. 179:

Fong-Kyo-Fo, or Camels with feet of wind. Du Halde, hist. of China, ii. 225.

The fwift variety is employed in Persia, Arabia, and Syria, for expresses, and is said to travel ninety or a hundred miles a day, and to be able, with very little food or rest, to continue this astonishing rate for eight or nine days. It is this variety to which the name of Dromedary ought exclusively to belong,

625

626

cated

belong, as that word is derived from the Greek $\Delta g_{\theta} g_{\theta} g_{\theta}$, which fignifies fwift. The fwift Camels of China, above referred to, are probably fimilar to those of Persia and Arabia.

2. Bactrian Camel.—2. Camelus bactrianus. 2.

Has two hunches on the back. Briff. quad. 53. Forfter, Phil. Tranf. Ivii. 343. Forfk. Faun. orient. P. iv. Raj. quad. 145.

Καμηλος Βακτζος. Arift. hift. an. ii. c. 1.—Camelus Bactrianus. Plin. viii. c. 18.—Dromedarius. Jonft. quad. 42. 43. 44. f. 1.—Camelus turcicus, or Turkish Camel. Prosp. Alp. Aeg. i. 223. t. 13.—Camelus. Gesn. quad. 162. f. p. 163. Schwenkf. theriotr. 72. Aldr. bis. 907. 889.—Chameau, or Camel. Sm. Bust. vi. 118. pl. clxvi.—Trampelthier, oder Dromedar. Knorr. del. nat. t. κ. 6.—Bactrian, or Two-bunched Camel. Penn. hist. of quad. n. 58. β.

Inhabits, in a wild state, the western parts of India, and in the deferts near the Chinese Empire.— This species is extremely hardy, and is bred in Persia, Africa, and the east, but is more rare than the Arabian, or single hunched kind; it is chiesly appropriated by the great men, and is swifter of foot than the other, though not nearly so much so as the swift variety of the Arabian. In its general appearance and manners it resembles the Camel with one hunch, from which it differs chiesly in having longer hair, especially on the throat and neck, and in being surmounted with two hunches on the back; of these the hinder one is larger than the other. Camels are said to be poisoned by the boxwood tree; they procreate in February, the semale goes a whole year with young, and produces only one soal at a time; it arrives at its full growth in two years; during most part of which time it continues to suck,

β. Mixed Camel. - Camelus hybridus.

In Persia a hybrid race is carefully cultivated between the Arabian and Bactrian species; this is in high estimation, as stronger, hardier, and more active than either; it is capable of reproduction, but the breed degenerates, and is only kept up in persection by the original means of its production.

3. Glama.—3. Camelus Glama. 3.

Has a hunch on the breaft.

Camel, with very fhort hair. Briff. quad. 55.—Camelus Peruvianus, or Peruvian Camel, called Glama. Raj. quad. 145.—Ovis peruana, or Peruvian Sheep, named Pelon, Ichiatl, or Oquitli. Hernand. mex. 660. Charlet. exerc. 9. Jonft. quad. t. 46.—Cervocamelus. Jonft. quad. t. 29.—Hirfch-camel. Gefn. Thierb. 239.—Enadoraunhos. Margr. Braf. 243.—Llama. Laet, amer. 405. Ulloa, voy. i. 365. t. 24. f. 5. Penn. hift. of quad. n. 59. Sm. Buff. viii. 133.

Inhabits the high mountains of Peru, Chili, and other parts of South America.—This is the Camel of Peru and Chili; in manners, flow pace, use, rumination, difficult commerce of the sexes, patient endurance of hunger and thirst, external form, and internal structure, it resembles the Camel of the old world; but is much smaller, feldom reaching sour seet and a half high, and has no hunch on the back. The head is small, with a short nose, large round black eyes, and sharp pointed ears of a moderate size; the neck is long, much bent, and very protuberant where it joins the body; the legs are long, and the feet half cloven; the tail is short. This animal is mild, gentle, and docile; it is domestivol. I.

cated in South America, and employed for carrying burthens, especially from the mines, through the rugged mountains, having a firm, sure-footed, grave step. The fur is long and soft, of a white or yellowish colour, spotted with black and brown; the body is about six feet long, and the hunch or produberance on the breast is faid, by some authors, to be constantly moistened with a yellowish oil, or claimmy fluid. It sights its enemies with the feet and teeth, and, when angry, discharges its fall-va, sometimes to the distance of ten paces, which, if it falls on the skin, raises an itching reddish spot. The voice is a kind of neighing. It procreates * about the end of summer; the semale has two teats, goes live or six months with young, and brings one at a birth, seldom two. It can carry about a hundred and sifty pounds, travelling for three or sour days incessantly, at the rate of three German miles a day, and then requires a whole day to rest; like the Camel, it kneels down to be loaded or unloaded, and will not rise if overburthened, neither will blows force it to quicken its pace; it lies down when wearied; its temper is very stubborn, and it can only be forced to proceed by compressing the testicles. Its slesh is equally good with our best mutton, and is very fat, when well fed, especially immediately below the skin.

Dr Gmelin questions whether this may not be the same animal with the Camel, altered by climate to a smaller size; but, if there were no other reason, the different times of gestation are sufficient to mark a totally different species; the neck is less bent, the back is almost even, the tail is more elegant, the pace is quicker, the legs are handsomer, and the hair, which is spun into worsted, is softer and longer, than in the Camel.—T.

627

4. Guanaco. - 4. Camelus Huanacus. 5.

The body is hairy, the back protuberant, and the tail is carried erect. Molin. hift. nat. Chil. 281.

Pernichcatl. Fernand. Mex. 11.—Guanaco, or Huanacu. Laet, Amer. 406. Ovalle, Chil. 44. Cieza, Peru. 233. Ulloa, voy. i. 366. t. 24. f. 5. Hawkefworth, voy. i. 148.

Inhabits the Andes in South America, and comes down into the lower parts of Peru and Chili in winter.—This species resembles the Glama in manners and many particulars of its external form, and in the uses to which it is applied by the natives of the country; but these animals never intermix, either in the wild or domesticated state: Besides this, the Guanaco wants the protuberance on the breast described in the Glama; it has a hunch on the back, which the former animal has not; its hind legs are likewise considerably shorter in proportion, and its gait is a kind of bounding or hobbling, on account of the inequality between its hind and fore legs. The body and head measure about seven feet long, and near four feet three inches high; the tail resembles that of a Stag, and the ears are like those of the Horse; the upper parts of the body are yellow, and the under parts pure white. The sless he younger animals is very good eating, but that of the older ones is rather hard and insipid, unless when salted.

6.28

5. Chillihueque. - 5. Camelus arcucanus. 6.

The body is covered with wool; the back has no protuberance; the upper part of the nose is much curved; and the tail is pendulous. Molina, hist. nat. Chil. 279.

Aries

^{*} Mari penis longus, tenuis, retroflexus, sub sinem aestatis coit fere furens; soeminae vulva angusta.

Aries moromorus. Nieremb. hist. nat. 182.—Sheep of Peru. Cieze, Peru. 232. Ovalle, Chil. 44. Feuille, journ. iii. 23. Frezier, voy. i. 264. t. 22. f. A.—Chillihueque. Clavigero, Mex. ii. 323. quoting Molina.

Inhabits Chili and Peru.—The neck, legs, head, nofe, flaccid pendulous ears, eyes, tail, and wool, of this animal refemble a good deal those of Sheep; but the tail is longer, and the wool much finer: In other circumstances, however, it is congeneric with the Llama, Huanaco, Pacos, and Vicugna. This animal was formerly employed, like the Glama and Huanaco, for carrying finall burthens of about a hundred pounds, and for tilling the ground. The wool is exceeding fine, foft, and filky, and is used for fabricating very fine cloths; it is sometimes white, sometimes black, brown, or ash coloured. The flesh is very good.

629

6. Vicugna. - 6. Camelus Vicugna. 7.

The body is clothed with fine wool; the nofe is blunt and flat; and the tail is flat. Molina, hift. nat. Chil. 277.

Vicuna, Vicuna, or Vicunas. Laet, Amer. 406. Nieremb. hift. nat. 184. f. p. 185. Cieza, Peru. 233. Ulloa, voy. i. 506. 525. t. 24. f. 3.—Vicognes, or Vicunas. Frez. voy. i. 266.—Camelus Vigogne, having the whole body covered with long woolly hair. Briff. quad. 57. n. 4.

Inhabits the highest and most precipitous peaks of the Andes in South America, especially in the Chilese provinces of Coquimbo and Copiapo.—This animal is timid, very swift, and extremely patient of cold; it keeps in large herds on the mountains, and is tamed with great difficulty. The natives stretch long cords, with bits of cloth hanging to them, across the gorges of the mountains, and, driving the Vicugnas towards them, they are so frightened by the flutter which the pieces of cloth make in the wind, that they dare not pass, but, huddling together, fall an easy prey to the hunters. This species was likewise used in former times for carrying small burthens of sifty to seventy-sive pounds; the slesh is very good; and the wool is used for making sine cloths and caps. The Vicugna has some resemblance to the Goat in figure, and in its tail; but the neck is longer in proportion, the head is rounded and hornless, the ears are short and erect, the nose is short, and the legs are twice as long as those of the Goat; the wool is excessively sine, silky, and easily dyed, and is usually of a rose colour. This species is distinguishable from the Pacos, by having a more slender body, and by the wool and snout being both of them shorter than in that animal, with which, besides, it will not intermix. A Bezoar is often found in the stomach of the Vicugna.

630

7. Pacos. - 7. Camelus Paco. 4.

Has no protuberances on the body, which is covered with fine wool; and the fnout is lengthened.

Camelus peruvianus laniger, or Peruvian woolly Camel, called Pacos. Raj. quad. 147. Klein. quad. 42.—Pacos. Hernand. Mex. 663. Laet, Amer. 405. Sm. Buff. vii. 133. Penn. hift. of quad. n. 60.—Alpagne. Frez. voy. i. 267.

Inhabits the highest mountains of Peru.—This species resembles the Vicugna considerably, but is smaller; its sless is not so sood, and its wool, though longer, is not so fine. It is gregarious like the O o 2

former, and so frupid as to fall a prey to the same simple snare; it was likewise used formerly for carrying small loads. In the wild state the upper parts of the body are of a purple colour, and the under parts white; in the domesticated state the colour varies, but is usually black, mottled with white and reddish, or brown; the wool is used for the same purposes with that of the Vicugna; but, being coarser, the stuffs made from it are not so filky.

XXXIV. M U S K.-33. M O S C H U S. 28.

Has no horns. There are eight fore-teeth in the lower jaw; and two long tusks, one on each side, in the upper jaw, which project out of the mouth.

631 1. Thibet Musk *.- 1. Moschus moschiferus. 1.

Has a bag or tumour on the belly, near the navel; and a very fnort tail. Pallas, spic. zool. xiii. t. 4. 6. Schreber, v. t. ccxlii.

Moschus. Schroeck, hist. mosch. Vienn. 1682. iv. t. 44. Brun. It. 121. t. 121.—Animal moschiferum, or Musk animal. Nieremb. hist. nat. 184. J. G. Gmel. Nov. com. Petrop. iv. 393. Raj. quad. 127.—Bisamthier, Capreolus moschi, or Musk Roe. Gesn. quad. 786. Do. Thierb. 50. f. p. 50. 51. Jonst. quad. t. 29.—Capra moschi, or Musk Goat. Aldrov. bisulc. 743. f. p. 744. Jonst. quad. 78. Charlet. exerc. 10.—Tragus moschiferus. Klein, quad. 18. Briss. reg. an. 97. n. 5.—Musc, or Musk. Sm. Buss. vii. 44.—Thibet Musk. Penn. hist. of quad. n. 54. pl. xii. f. 1. Arct. zool. i. 34. A.

Inhabits the principal Alpine mountains of Asia, especially the highest rocky mountains from the Altaic chain to that which divides Thibet from India; likewise in China and Tonquin, and in eastern Siberia about lake Baikal and the rivers Jenifea and Argun.—Dwells folitarily in the most precipitous places of the mountains, among rocks, in the finall narrow valleys furrounded by thefe fnowy hills, and in the pine forests which grow in their interstices, but chiefly keeps on the highest tops of the fnowy peaks. This is a very gentle and exceffively timid animal, except in the feafon of love. in November or December, when the males fight violently with their tufks for the females; it is exceedingly active in leaping, running, climbing, and fwimming, and is very difficultly tamed; the flesh is eatable, and that of the younger animals is reckoned delicate. The male measures about three feet three inches long from the nofe to the origin of the tail, and is about two feet three inches high at the shoulder; the female is less than the male, has a sharper nose, has no tusks nor musk bag, and is provided with two teats: The head is very handsome, and resembles that of the Roe; the sur is coarfe like that of the animals of the Deer kind, but fofter, very fmooth, erect, plentiful, thick, and long; the colour varies according to the age of the animal, and time of the year, but is chiefly blackish brown on the upper, and hoary, feldom white, on the under parts of the body; in younger animals it is marked with ftreaks and fpots, which, growing larger as the animal grows older, at last va-

nith

^{*} The Musk animal was first mentioned by Cosmas in the fixth century.

633

nish altogether; the tail is very short, and is hid in the fur. Near the prepace is situated the musk bag, or follicle, which is of a somewhat oval figure, flat on one side, and rounded on the other, having a small open orifice. In young animals this bag is empty, but in adults it is filled with a clotted, oily, friable matter, of a dark brown colour; this is the true musk, and the best comes from Thibet, that which is found in Siberia having somewhat of the slavour of Castor; each bag contains from a dram and a half to two drams.

The upper jaw is much longer than the under, and is furnished on each side with a slender tusk two inches long, and hanging quite out of the mouth; the ears are long, narrow, and of a dark brown on the outside, the inside yellow; the long hairs, of which the fur is composed, are ash coloured near the bottom, black near the ends, and reddish brown at the tips, being each marked with short waves from top to bottom; in some the fore part of the neck is marked with long white stripes, and the back with pale brown perpendicular stripes; the hoofs are long, black, and much divided, and the spurious hoofs of the fore feet are very long; the scrotum is of a bright red colour, and the penis very small.

2. Indian Musk .- 2. Moschus indicus. 2.

Of a reddish brown colour on the upper, and uniformly whitish on the under parts of the body; the tail is shortish; and the feet have spurious hoofs. Schreber, v. t. ccxlv.

Tragulus indicus, having short hair, of a tawny colour on the upper, and whitish on the under parts of the body. Briff. reg. an. 322. n. 3.

Inhabits India.—This species is much of the same size with the former; the head, however, refembles that of a horse, with erect, oblong ears, and the tail is longer and more perceptible; the legs are very slender.

3. Pigmy Musk,—3. Moschus pygmaeus. 3.

Has no spurious hoofs; is of a tawny red colour on the upper, and white on the lower parts of the body. Erxleb. mam. 322. n. 3.

Musk, having the legs smaller than a man's singer. Syst. nat. ed. xii. 92.—Capra, or Goat, with curved, conical, obtuse horns, furrowed on the fore parts. Syst. nat. ed. x. 69.—Tragulus guinensis, with long hair of a dark tawny colour. Briss. regn. an. 96. n. 2.—Cervus pusillus, or Small Deer, of Guinea. Cerva parvula, or Small Doe, from Africa, without horns, and of a red colour. Juvencus pergracilis, Beautiful Fawn, or Young Deer, from Africa. Cervus africanus, or African Deer, with red fur. Seba, Mus. i. 70. 73. t. 43. f. 1. 2. 3. and t. 45. f. 1. Klein, quad. 22.—Chevrotain des Indes orientales. Buss. hist. nat. fr. ed. xii. 315 and 341. t. 42. and 43.—Indian Memina? Sm. Buss. vii. 22. pl. cc. f. 1.—Guinea Muss. Penn. hist. of quad. n. 57. Nat. miscel. pl. 3.

Inhabits India, Java, and the other Indian islands.—The body and head of this elegant little animal measure only nine inches and a half long; the tail is about an inch long; the ears are long. It is called Kant-chil by the Malayes, and Poet-jang by the inhabitants of Java. The two middle fore-teeth are very broad, and the other fix very flender; the tusks are finall.

637

B. Striped Pigmy Musk. - Mosch. Pigm. leverianus.

PECORA.

In the Leverian Museum is a specimen of this species, which varies a little in colour from that above described; being ferruginous, intimately mixed with black, and having perpendicular white stripes on the neck and throat. Penn. hist. of quad. p. 115.

4. Memina. - 4. Moschus Meminna. 4. 635

Has no spurious hoofs; is of an olive ash colour on the upper, and white on the under parts of the body; the fides being spotted with white. Erxleb. mam. 322. n. 2. Schreber, v. t. ccxliii.

Meminna. Knox, Ceylon. 21.—Ceylon Chevrotin, or Ceylon Memina. Sm. Buff. vii. 22. pl. cc. f. 2.—Piffay. Hamilton, voy. to E. I. i. 261.—Indian Musk. Penn. hift. of quad. n. 56. pl. xii. f. 2.

Inhabits Ceylon and Java.—Is about feventeen inches long from the nofe to the rump; the tail is very fhort; the ears are large and open; the fides are fpotted and barred transversely with white. In Mr Pennant's plate, which is copied from a drawing fent him by Mr Loten, Governor of Ceylon, the feet have finall fourious hoofs.

5. Javan Musk .- 5. Moschus javanicus. 5. 636

Has very small spurious hoofs; of ferruginous colour on the upper, and white all along the under parts of the body; the tail is longish and hairy, being white below and at the tip. Pallas, spic. zool. xii. 18. and xiii. 28.

Inhabits Java.—This species is about the fize of a Rabbit, and its legs are similar to those of the Pigmy Musk; the back of the neck is of a hoary brown grey colour, intermixed with dark brown hairs; the under part of the neck is white, with two fpots, almost run together, of a hoary grey colour, and having two very long divergent hairs under the throat; the top of the head is longitudinally marked with blackifh; the knees have two brushes, and there are no pits either on the groins or below the eyes. This animal and the Memina feem only varieties of the Pigmy species.

6. Brasilian Musk .- 6. Moschus americanus. 6.

Of a reddish brown colour, with a black muzzle, and white throat. Erxleb. mam. 324. n. 4.

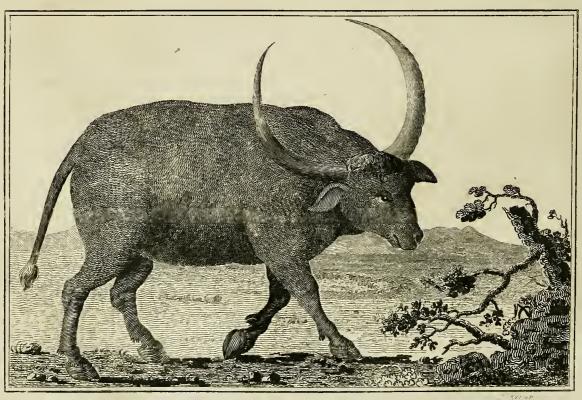
Tragulus Surinamenfis, of a reddish yellow colour, and marked with white spots. Briff. reg. an. 96. n. 3. Klein. quad. 22. Seba, Mus. i. 71. t. 44. f. 2. Marchais, voy. iii. 281.—Wirrebocerra. Bancrost, Guiana. 123.—Brasilian Musk. Penn. hist. of quad. n. 55.

Inhabits Guiana and Brasil.—This animal is scarcely so large as the Roe; it is exceedingly timid, shy, active, and swift; and has much of the manners of the Goat, especially in climbing rocks. fur is foft and fhort; the colour of the head and upper part of the neck is dark brown, the lower part of the neck and throat are white, the body and limbs are reddish brown: The hind legs are longer





X° 639



Nº 746

639

longer than the fore; the ears are four inches long. In the specimen examined by Mr Pennant the throat and underside of the neck were of the same colour with the rest of the body. Dr Gmelin suspects that the above described animal may only be a fawn of the American Roe.

7. Formosan Musk. — Moschus sinensis.

Of the fize of a Stag, and without horns. Nieuhoff, voy. in Harris, coll. 209.

Inhabits the island of Formosa.—This animal is only mentioned by Nieuhoff in a cursory manner, as above, without plate or farther description.

XXXV. DEER.--34. C E R V U S. 29.

Has folid branched horns, which fall off and are renewed every year. The lower jaw has eight fore-teeth; in general this genus wants tulks, but sometimes one tulk is found on each side in the upper jaw.

The animals of this genus are all fond of living in woods; they fight with their horns, and firike with their fore feet; they are faid to have no gall bladder; their flesh is universally wholesome, and that of some kinds, under the name of venison, is esteemed a great delicacy; some species are used by mankind for draught. Mr Pennant has subdivided the genus into such as have the horns palmated, that is, spread out into broad flat boards, having processes or projections, named snags, fancifully supposed to resemble singers, and the broad part to have some likeness to the palms of the hands; hence the name; and such as have rounded horns, likewise branched. It may be necessary to explain a few terms used in describing the horns of this genus: The beam is that part of the horn which rises from the fore-head, like the stem of a tree; the palms are broad flat expansions of the horns in some species, which are beset round with processes like singers, called snags; the branches are subdivisions of the horns, like those of trees; the brow antlers are particular processes in some species, which arise from the beams near the head, and project forwards. The horns grow from the points, and, when growing, are covered with a skin which is extremely vascular, and clothed with a sine velvet fur; from which circumstance the growing horns are named velvets; this skin dries, shrivels, and falls off, when the horns have attained their full size.

* Having palmated horns.

1. Elk.—2. Cervus Alces. 2.

Its broad palmated horns have very short beams or none; the throat has a tusted excrescence. Schreber, v. t. ccxlvi. A. B. Briff. regn. an. 93. n. 9. Miller, on var. subj. of nat. bift. t. x. A.

Alce, or Machlis. Plin. hift. nat. viii. c. 15.—Alces. Caefar, bell. Gal. v. c. 27. Gefn. quad. i. 3. Scheff. Lap. 336. Charlet. exerc. 12.—Alce. Schwenkf. ther. 53. Aldrov. bifulc. 866. f.

p. 869. 870. Jonst. quad. t. 30. 31. Olear. mus. t. 9. f. 2. Raj. quad. 86. J. F. Leopold, dist. de Alce. Basil. 1700.—Mosse. Laet, Amer. 68.—Mose Deer. Dudley, Phil. Trans. n. 368. p. 165. Dale, D°. abrid. ix. 85. t. 6. f. 50.—Elk. Lawson, Carol. 123. Penn. hist. of quad. n. 42. pl. ix. f. 1. 2.—Orignal. Charlev. nouv. Fr. iii. 126.—Elan, or Elk. Sm. Buff. vi. 315. pl. clxxxv.—Alg. Faun. Suec. n. 39.—Los. Rzaczinski, Pol. 212.—Moose. Arct. zool. n. 3. pl. viii.

Inhabits Europe, America, and Asia as far as Japan.—This animal is chiefly found in the northern parts of both continents, and frequents poplar woods and other forests, browzing on the twigs and branches of trees; they likewife often feed on marsh plants, and are faid to be very fond of the Anagyris foetida, or Stinking Bean-trefoil. The Elk is as large as a Horfe, being five and a half feet high before, and two inches higher behind; the head is large, with very long, large, upright, flouching ears; a very broad, square, upper lip, deeply furrowed, and hanging much over the mouth; a very broad nofe, with large noftrils; the horns have no brow antlers, the palms are very broad, plain on the infide, and having many flarp fnags on the outfide; the neck is fhort and flouching, with a fhort upright mane, and a hairy wattle on the throat; the fhoulder is very high; the tail extremely fhort; the hoofs are much divided, and the fpurious hoofs large and loofe: The general colour is a hoary black, greyest about the face. It is a mild animal, except in the season of love, when wounded, or when teazed with the gad-fly. The pace is very ungraceful, confifting of a high fhambling trot, during which their fpurious hoofs make a loud rattling noife; but they go with great fwiftness, and were formerly used in Sweden to draw sledges, with which they have been known to travel more than fifty miles a day. The hide is faid to be fo thick as to turn a musket-ball, and makes excellent buff leather. The fiesh is reckoned very light and nourishing; the nose is esteemed a great delicacy; and the tongues, when falted, are much admired.

β. Irish Elk .- C. Alces fossilis.

The horns have long beams, are palmated, and are furnished with flatted brow antlers; the snags on the palms are very long; and there is one long snag on the inner edge of each palm. Penn. hist. of quad. p. 97. pl. xi. f. 1.

The horns of this species are frequently dug up from peat-bogs in Ireland, but the living animal is unknown, having long been extirpated from that country; the horns are vastly larger than those of the Elk, besides being very differently formed, and measure sometimes eight feet long each, and four-teen feet between their tips.

2. Rein Deer .- 4. Cervus Tarandus. 4.

Has long, rounded, slender horns, which bend forwards, and are palmated at the ends. Schreber, v. t. ccxlviii. A. B. C. C. Faun. Suec. 41. Amoen. ac. iv. 144. t. i. Muf. ad. Fr. i. 11.

Tagardos. Aclian. an. ii. c. 16.—Tarandus. Plin. hift. nat. viii. c. 34. Aldrov. bifulc. 859. f. p. 861. Jonft. quad. 90. t. 37. Charlet. exer. 12. Scheff. Lap. 321. f. p. 327.—Raugofer. Gefn. quad. 950. Aldrov. bifulc. 863. Jonft. quad. t. 37. Muf. Worm. 337. Scheff. Lap. 338. Charlet. exerc. 12. I.lein, quad. 83. Olear muf. 16. t. 10. f. 3.—Renne, or Rein Deer. Sm. Buff. vi. 315. pl. clxxxvi.—Rein Deer. Penn. hift. of quad. n. 43. pl. x. f. 1. Arct. zool. n. 4.—The anatomy. Berthol. act. Haffn. 1671, n. 135. Houften, act. Stockh. 1774, vol. xxv. trim. 2. n. 4.

642

643

a. Common Rein Deer.—4. a. Cerv. Tarandus Rangifer.

All the upper parts of the horns, both of the main branches, and the brow antlers, are palmated. Briff. regn. an. 92. n. 8.

Reinthier, and Tarandthier. Gefn. Thierb. 206. 207. 208. 209.—Rennthier. Gr. v. Mellin, Schr. der, Berl. naturf. gef. i. n. 1. Ridinger, wild. thier. 35.

β. Greenland Rein Deer.-4. β. Cerv. Tarandus groenlandicus.

The horns are entirely rounded, and covered with a hairy skin; the nose is much covered with hair. Briss. regn. an. 88. n. 4.

Capra groenlandica, or Greenland Goat. Raj. quad. 90.—Greenland Deer. Catesb. Carol. app. p. xxviii.—Greenland Buck. Edw. av. i. t. 51.

y. Canadian Rein Deer.-4. y. Cerv. Tarandus Caribou.

Has straight horns, with a single snag, turned forwards, at the base of each. Brist regn. an. 91. n. 6.

Caribou. Charlev. nouv. Fr. iii. 129. Dobbs, Hudson's Bay. 20. 21. - Macarib, Caribo, or Pohano. Josselyn, New Eng. 20.

Inhabits chiefly the most northern mountains of Europe, Asia, and America, as far as Spitsbergen, Greenland, and Kamtschatka; is found likewise in the more southern parts of Russia, and even in Sardinia, though smaller; the horns have likewise been found in marle pits in Scotland.—In Lapland the wild Rein deer inhabit the highest mountains during summer, and descend into the desert plains in winter, from which they are again driven to the mountains in the summer to escape from the perfecution of various insects, particularly the Culex pipiens, Gad-fly, and Tabanus tarandi. They feed much on a species of Liver-wort called from them Lichen rangiferinus, especially in winter, when they have to dig it out with their feet from below the snow, under many feet deep of which it lies buried. The male casts his horns immediately after the rutting season, about the end of November; and the female, which has horns like the male, though not so large, preserves hers till the middle of May, when she drops her sawns. She goes thirty-three weeks with young, and frequently has twins. In a domesticated state, the Rein deer seldom exceeds sixteen years of age. In Lapland great numbers of these animals are kept tame by the natives, to whom they are of indispensible use, for drawing sledges, and for supplying them with milk, sless, and skins as clothing: The Samojedes likewise use their hides for fails. When castrated the male seldom loses his horns till nine years old.

In a domestic state the Rein deer seldom exceeds three seet high, but the wild animals are larger, sometimes four and a half seet at the shoulder. The horns of the Rein deer, though long, are rather slender; the beams are very long, bend first a little backward, are then gradually curved, and the palms at the ends stand forwards; the brow entlers rise from the main beams close to the head, have short beams, broad palms, and numerous snags; and generally, immediately over these, a branch rises from each main beam, which projects forwards, and is somewhat palmated at the ends, with several snags. The upper parts of the body are of a brown ash colour, growing gradually lighter with age, till it becomes white at last; the space round the mouth, the whole under parts of the body, and the tail, are white; the orbits are surrounded with black; the fur is very thickly set, and on the fore part Vol. I.

of the neck it is long and pendent; the tail is very flort; the hoofs are large and concave; the male prepuce is much pendent; the female has fix teats, the two posterior of which are impervious.

644

3. Fallow Deer. - 5. Cervus Dama. 5.

The horns are compressed, branched, and bending forwards; having their extremities palmated. Schreber, v. t. ccxlix. A. B.

Cervus Dama vulgaris, or common Fallow Deer, having the extremities of the horns palmated. Briff. regn. an. 91. n. 7.—Cervus palmatus, Dama, or Dama-cervus. Klein, quad. 25.—Cervus platyceros. Raj. quad. 85.—Πεοξ. Arift. hift. an. ii. c. 14.—'Ελαξος εὐενείξως, Ιοξεος. Oppian, cyneg. ii. 293. 296.—Platyceros. Plin. hift. nat. xi. c. 37.—Dama vulgaris. Gefin. quad. 355. f. p. 1100.—Dof, or Dof-hiort. Faun. Suec. n. 42.—Daniel. Rzacz. Polon. 217.—Platogna. Belon, obf. 55.—Dann-Hirfch. Ridinger, jagdb. th. t. 7.—Dam-hirfch. Gefin. thierb. 202. f. p. 203. Gr. a Mellin, Schr. d. Berl. naturf. gef. ii. 9.—Dain, Daine, or Fallow Deer. Sm. Buff. iv. 113. pl. liv. lv.—Fallow Deer. Penn. hift. of quad. n. 44. Briff. zool. i. 34. Arct. zool. i. 33. B.—The anatomy of a Hermaphrodite Fallow Deer. Journ. encyclop. 1776, P. ii.

Inhabits Europe, and Asia as far as the northern parts of Persia and China, Greece, and Palestine, being the Jachmur of the Scriptures.—This species is not so plentiful or universal as the Stag; few are now found wild in Britain; but numbers are kept in parks. The colour varies, being sometimes reddish, sometimes deep brown, frequently spotted with white or grey, and rarely altogether white. It is gregarious, feeding always in flocks; is very easily confined to parks, and very readily made tame; it seldom lives above twenty years. The semale has no horns, goes eight months with young, and brings only one fawn in general, feldom two, and hardly ever three, at a birth. Though they leap remarkably well, yet they may either be kept in an inclosure, or fenced out by means of a cord fixed horizontally two or three feet above the ground.

** Having rounded horns.

645

4. Stag. - 3. Cervus Elaphus. 3.

Has long, rounded, upright branched horns. Schreber, v. t. ccxlvii. A. B. C. D. E.

Eλαφος. Arist. hist. an. ii. c. 7. and 18. vi. c. 29. ix. c. 6. Aelian, an. vi. c. 11. and 13. vii. c. 39. xii. c. 18. Oppian, cyneg. ii. 176.—Cervus. Plin. hist. nat. viii. c. 32. Gesn. quad. 354. Schwenks. theriotr. 81. Aldrov. bisulc. 769. f. p. 774. Jonst. quad. 82. t. 32. 35. Mus. Worm. 338. Scheff. Lap. 337. Charlet. exerc. ii. Wagn. Helvet. 173. Sibbald, Scot. an. 9. Raj. quad. 84.—Jelen. Rzacz. Pol. 216.—Kron-hiort. Faun. Suec. n. 40.—Edler-Hirsch, Wild oder thier. Ridinger, jagdb. th. t. 4. 5.—Stag. Penn. hist. of quad. n. 45. Arct. zool. n. 5.—Red Deer, or Stag. Brit. zool. i. 34.—Cers, Biche, et Faon; Stag, Hart, or Red Deer. Sm. Buss. iv. 74. pl. li. lii.—Its anatomy, E. N. C. cent. 10. app. 448.—Particular differtations. Graba, eleographia. Jenae, 1668. J. G. Agricola, de cervi natura. Amberg. 1617.

646

β. Maned Stag. - 3. β. C. Elaphus Hippelaphus.

Of confiderably larger fize, having long hair on the neck. Erxleb. mam. 304.

Cervus germanicus, or German Stag, with round horns which are turned inwards at the fides, and having a mane on the lower part of the neck. Briff. regn. an. 87. n 2.—'Ιππελαφος. Arift.

648

649

650

hift. an. ii. c. 5.— Texpslatos. Plin. hift. nat. viii. c. 33.—Tragelaphus. Gefin quad. 1101. Charlet. exerc. 12.—Hippelaphus mas, or Rofshirsch. Jonst. quad. t. 35.—Brandhirsch, and Pferdhirsch. Gesn. thierb. 199. 200.

y. Corfican Stag. - 3. y. C. Elaphus corficanuis.

Is smaller, and of a deep brown colour. Erxleb. mam. 304.

Corsican Stag, with straight antlers, or Small Red Deer. Sm. Buff. iv. p. 115. pl. liii.—Small Stag of Barbary? Shaw's travels, 243.

S. Canadian Stag. - 3. S. C. Elaphus canadensis.

Having very large horns. Erxleb. mam. 305. Briff. regn. an. 88. n. 3.

Stag. Brickn. North Carol. 109.—Virginian Stag. Dale, Phil. Tranf. n. 444. p. 384.—Carolinian Stag. Lawfon, Carol. 123.—American Stag. Catefby, Carol. app. xxviii.

e. Chinese Stag.—C. Elaphus minutus.

About the fize of a Common Dog. Du Halde, i. 122. Penn. hist. of quad. n. 104.

Inhabits the province of Sunnan in China.

The feveral varieties of the Stag inhabit Europe, Barbary, the north of Afia as far as Japan, and North America.—The Stag lives in herds, of many females with their young, under the guidance of one male; it is in general a gentle fly animal, but becomes furious and dangerous in the rutting feafon, in the months of August and September, and when teazed with the gad-fly. In August the males feek after the females with a violent braying, and fight violently among themfelves for the choice. The female, which has feldom any horns, goes eight months with young, and brings very feldom two at a birth. The males drop their horns in February and March, and recover them completely in July. The Stag is a very elegantly made animal, usually about three feet and a half high at the shoulder; its general colour, on the upper parts of the body, is a reddish brown, and whitish on the under parts, being very feldom found entirely white; the younger animals are fpotted with white. Under the eyes is fituated, on each fide, a diffinct furrow, or lachrymal folia: The number of branches or fnags on the horns increases yearly, even as far as twenty on each horn; but in extreme age they diminish: The skin makes a pliable and durable leather, usually named Buck-skin, or Doc-skin, and is employed for making gloves and breeches; the horns are used for making handles to knives, swords, and other instruments, and by chemists for distilling volatile alkali: The Stag feeds on grass, corn, and the twigs, flowers, buds, and catkins of various trees, fuch as the Cornel, Poplar, Willow, Hazel, and others. When in good condition, the flesh, under the name of venision, is reckoned a great delicacy.

5. Virginian Deer.—6. Gervus virginianus. 8.

Has slender horns, bending much forwards, very slightly palmated at the extremities, with numerous branches on the interior edges, and having no brow antlers. Penn. hist. of quad. n. 46. pl. xi. f. 2.

654

Dama virginiana. Raj. quad. 86.—Cervus platyceros. Sloan, Jam. ii. 328.—Chevreuil. Du Pratz, Louis. ii. 69.—Fallow Deer. Lawson, Carol. 123. Catesby, Carol. app. xxviii. Bricknell, North. Carol. 109.

Inhabits Carolina and Virginia.—Has a confiderable refemblance to the Fallow Deer, but is higher at the shoulders, and has a longer tail and longer legs; the colour likewise is lighter, being an ash coloured or cinereous brown. It is gregarious, very restless, active, and easily domesticated; and in winter lives much on the moss, or lichens, which grow on the trunks of trees. The sless dry, but useful to the Indians, who dry it for their winter provision. The skins are a great article of commerce, and make excellent pliable leather for gloves and breeches.

6. Axis. - Cervus Axis.

Has erect rounded horns, with three fnags or branches pointing upwards, and no brow antlers.

651 a. Spotted Axis. -- C. Axis maculatus.

The body is spotted with white: The horns are slender, and the first branch is near the base. Syst. nat. ed. Gmel. 179. n. 9. Penn. hist. of quad. n. 47.

Axis. Sm. Buff. vi. 230. pl. clxxviii. clxxix. Plin. hift nat. viii. c. 21. Raj. quad. 89. Belon, obf. 119.—Speckled Deer. Nieuhoff, in Church. voy. i. 262.

Inhabits the banks of the Ganges and the island of Ceylon.—Is about the fize of a Fallow Deer; of a light red colour, beautifully marked with white spots, and having a white line along the lower part of the sides near the belly: The tail is longish, of a red colour above and white beneath. This animal is very easily tamed, and bears the climate of Europe, having bred in the Prince of Orange's menageric at the Hague.

652 \(\beta \). Middle Axis.—C. Axis unicolor.

The body is of an uniform light red colour: The horns are rough, strong, and three-forked. Penn. hist. of quad. n. 48.

Inhabits the dry hilly forests of Ceylon, Borneo, Celebes, and Java.—Is about the fize of a Stag, being larger than the Spotted Axis; goes together in herds of several hundreds; becomes very fat. The flesh is cut into small pieces, salted, and dried in the sun, for provision.

y. White Axis.—C. Axis albus.

Refembles the former in every thing, except being white. Penn. hift. of quad. p. 106.

Inhabits with the former, and is reckoned a great rarity.

S. Larger Axis.—C. Axis major.

Of a reddish brown colour, with very thick, large, strong, and rugged three-forked horns. Penn. hist. of quad. n. 48 *.

Inhabits

Inhabits the marshes of Borneo and Ceylon.—Is as large as a Horse, with whitish horns: The animals of this variety are called Elanden, or Elks, by the Dutch, and Mejangan Banjee, or Water Stags, by the Javanese and Malays.

Some species of Deer, probably one or other of the varieties of Axis, are found, along with Oxen, Buffalos, Goats, Hogs, Dogs, Cats, and Rats, in Mindanao, Gilolo, Mandioly, Batchian, and the Papuas islands. The Axis has the sense of smelling in a very nice degree, insomuch that, when tame, they will not eat bread which has been breathed on; they agree in this circumstance with several other animals of the same genus, and of the Antilope, and Goat kinds.

7. Porcine Deer.—8. Cervus porcinus. 10.

Has flender three-forked horns; the upper parts of the body are brown, and the under parts ash coloured. Schreber, v. t. ccli. Penn. hist. of quad. n. 49. Do. Syn. n. 42. t. 8. f. 2.

Inhabits India and Borneo.—The body is thick and clumfy, from which the animal has got the name of Hog Deer; but the legs are fine and flender; the body and head measure three and a half feet long, is two feet two inches high at the shoulder, and two inches higher at the rump; the tail is eight inches long. It is caught in pit-falls, covered with some slight materials.

β. Spotted Porcine Deer.—C. porcinus maculatus.

Has flightly three-forked horns, the first snag being very near the head; the body is of a yellowish colour marked with white spots.

Hog-Stag. Sm. Buff. iv. 111. pl. liii. No. 2.

655

656

657

Is faid to have been brought from the Cape of Good Hope.—This feems much the fame with the Porcine Deer of Mr Pennant, described above, except the colour, and the spots: The size is very much the same; the nostrils are black, with a blackish band at the corners of the mouth; the colour of the head is mixed with grey, the fore-head and sides of the eyes being brown; the ears are very large, garnished within with white hairs, and on the outside covered with smooth brown hair, mixed with yellow; the top of the back is brownish; the tail is yellow above, and white below; and the legs are of a dark, or blackish, brown colour.

8. Muntjac .- 11. Cervus Muntjac. 12.

Has three longitudinal ribs extending from the horns to the eyes; and a tusk hanging out from each side of the upper jaw. Schreber, v. t. ccliv.

Rib-faced Deer. Penn. hist. of quad. n. 50.

Inhabits Java and Ceylon.—This species is somewhat less than the Roe, and resembles the Porcine Deer in shape. The horns are placed on a boney process, which rises three inches above the skull, and is covered with hair *; they are three-forked, the uppermost snag or branch being hooked. In

* From not being thoroughly acquainted with the English language, Dr Gmelin applies the hairy covering of the boney process, as described by Mr Pennant, to the horns themselves, and says that they are covered with hair.—T.

660

the Malay language it is called Kidang, and Munt-jak by the Javanese. It is very common, going about only in single families, and is much esteemed for its sless.

658 9. Roe. - 10. Gervus Capreolus. 6.

Has strong, short, rugged, upright, rounded horns, which are two-forked at the ends; the body is of a reddish brown colour. Schreber, v. t. cclii. A. B. Erxleb. mam. 313. Briss. regn. an. 89. n. 5.

Caprea. Plin. hift. nat. viii. c. 53. 58. x. c. 72. xi. c. 37. Aldrov. bifulc. 738. Jonft. quad. 77. t. 31. Raj. quad. 89.—Capreolus. Gefn. quad. 324. 1098. Schwenkf. theriotr. 78. Jonft. quad. t. 33. Muf. Worm. 339. Wagn. Helv. 173. Sibbald. Scot. an. 9. Klein, quad. 24.—Dorcas. Charlet. exerc. 12. Gefn. quad. 296.—Sarn. Rzaczinfk. Pol. 217.—Chevreuil, et Chevrette, or Male and Female Roe Deer. Sm. Buff. iv. 120. pl. lvi. lvii. —Ra-djur. Faun. Suec. 43.—Rhabock. Gefn. thierb. 144. f. p. 144. 145. Ridinger, jagdb. th. t. 9.—Roe. Penn. hift. of quad. n. 51. Arct. 2001. n. 7. Roebuck. Brit. 2001. i. 139. 200.

Inhabits Europe and Afia; is frequent in the Highlands of Scotland.—Frequents the leffer woody mountains, and, in winter, feeds on the young shoots of Fir and Beech. It is an active shy animal, which generally keeps in small flocks or families; never grows fat, but is reckoned delicate venuson. In summer the hair is very short and smooth, being dark grey at the roots, and deep red at the ends; in winter the hair grows very long, and becomes hoary at the ends, except on the back, where it is often very dark coloured; the legs are very slender, and have a tust of long hair below the first joint of each hind leg; the rump and under side of the tail are white; the face is blackish. This species is about four feet long, two feet three inches high before, and four inches higher behind; the horns are from fix to eight inches long; are cast in autumn, and recovered during winter. The semale goes twenty or twenty-two weeks with young, and has often twins in the month of April. Besides the two-forked extremity, each of the horns have one, two, three, or five lateral snags or branches, according to age. Charlevoix mentions Roes in North America; but, as the other writers, Lawson, Caterby, Kalm, and Du Pratz, on the natural history of that country, do not speak of them, he is probably mistaken.

B. White Roe. - C. Capreolus albus.

Is exactly like the Roe, but pure white, with black hoofs and nofe. Sm. Buff. iv. 134.

This animal, which was a female, was caught in Franche Comté, and is probably only an accidental, and a very rare variety of the Roe.

10. Aha.-1. Cervus pygargus. 1.

Has no tail; the horns are three-forked. Pallas, It. i. 97. 453. Schreber, v. t. ccliii.

Cervus Aha. S. G. Gmelin. It. iii. 496. t. 56.—Tail-less Roe. Penn. hist. of quad. n. 51. A. Arct. 2001. i. 33. A.

Inhabits the woody mountains of Russia and Siberia beyond the Volga, and in Hircania.—This species resembles the Roe, but is considerably larger; it is of the same deep red colour, with a large bed of white on the rump and buttocks, extending up the back; the sur is excessively thick, and in

662

663

664

665

666

667

fpring is quite rough and erect; on the belly and limbs it is yellowish; the space round the nose, and the sides of the under lip are black, but the point of the lip is white; the hairs of the eye-lids, and round the orbits, are long and black; the horns are very rugged at the bases, and full of knobs; the ears are covered on the inside with a very thick white fur. At the approach of winter, this animal becomes hoary, and descends into the plains; it is called Dikeja Roza by the Russians, Saiga by the Tartars, which name is used in Russia for the Scythian Antelope, and Ahu, or Aha, by the Persians.

11. Mexican Deer .- 9. Cervus mexicanus. 11.

Has strong, thick, rugged horns, bending forwards, three-forked at their extremities, and having one erect snag about two inches above the base: Of a reddish colour. Penn. hist. of quad. n. 52.

Cervus major, or Biche des bois, with very flort finall horns. Barrere, Fr. equin. 151.—Teut-lal-maçame. Hernand. mex. 324.—Baieu. Bancroft, Guian. 122.

Inhabits New Spain, Guiana, and Brasil.—This species is about the size of the Roe; it is of a reddish colour, and is spotted with white when young. The head is large, with large bright eyes, and a thick neck. The horns are apt to vary in the number of their branches; and the sless in much inferior to venison.

*** Uncertain species.

Befides these above described, there are several species or varieties of Deer, mentioned in authors, which are so slightly noticed as to render it difficult to determine whether they are distinct species, or only varieties of some of those already taken notice of.

a. Tema-maçame. — Cervus Temama.

Hernand. hist. nat. mexic. p. 325.

β. Cuguacu-apara.—Cervus Cuguapara.

Marcgr. Braf. 235. Pifo, Ind. 97. f. p. 98.

y. Cuguacu-ete.—Cervus Cuguete.

Marcgr. Braf. Pifo, Ind. loc. cit.

S. Biche des Bois.—Cervus sylvaticus.

Barrere, France equinoct. 15.

e. Biche des paletuviers. - Cervus paludosus.

Barrere, in loco citat.

ζ. Mazame,—Cervus Mazame.

Smellie's ed. of Buffon, vii. 30.

304

n. Cariacou. - Cervus Cariacou.

This animal, from having no horns, feems the female of some species of Deer, whether of any of those already described is uncertain. Sm. Buff. vii. 34. pl. cci.

669

0. Barallou Hind .- Cervus Barallou.

Smellie's ed. of Buffon, iv. 135.

670

1. Wood Hind .- Cervus nemorofus.

Smellie's ed. of Buffon, in loco citat.

671

z. Savanna Hind .- Cervus pratenfis.

Smellie's ed. of Buffon, in loco citat.

672

A. Indian Deer .- Cervus indicus.

Mr Pennant describes a pair of horns in the Museum of the Royal Society, which belong to a species of Deer, and gives an engraving of them, Hist. of quad. p. 110. pl. xi. f. 3.; these are, by Grew, in his rarities, p. 24. said to belong to an Indian Roebuck, but they are evidently from some very different species. They are very thick and strong, and the base is very rugged; a little above the base of each a sharp snag rises perpendicularly, which has a smaller snag at its base; the upper part of each horn turns forwards, is broad, divided into two branches, and is palmated, with numerous snags. These horns are each sixteen inches long, and the same distance between their tips.

673

. u. Squinaton. - Cervus Equinaton.

Another obscure species is mentioned by Mr Pennant, under the name of Squinaton, or Scenoon-tung, which inhabits the country west from Hudson's Bay; all that is known of this animal, is, that it is less than a Buck, and larger than a Roe, with finer legs, and sharper head. Penn. hist. of quadap. 110.

674

v. Grey Deer .- Cervus guineensis.

The animal named Grey Deer, n. 53. by Mr Pennant, and Guinea Deer, by Gmelin, Syst. nat. ed. Gm. 181. n. 7. which is described from the Must. Ad. Fr. i. 12. is an obscure species, and it is doubtful whether it belongs to the genus of Deer, Musk, or Antilope, as the specimen described had no horns. It is of the fize of a Cat, of a grey colour on the upper parts, and blackish underneath, having longish ears; with a large black spot above the eyes, a black line between the ears, a perpendicular black line on each side of the throat, the middle of the breast black, the fore legs and sides of the belly, as far as the hams, marked with black, and the under side of the tail is black.

675

ξ Unknown Deer.—Cervus avomalus.

There are in Mr Weir's Museum at Edinburgh the horns of a small species of Deer, said to have come from some part of America, which I have not seen described in the writings of any naturalist; they are about eight inches long, and stand erect; their beams and branches are quite thin and slattened, dividing each into two branches, which are each two sorked; from the lower part of each beam a single sing projects forwards, of the same thin flatted appearance with all the rest; all the single and and branches end square and abrupt. These are engraved for this work.—T.

XXXVI. GIRAFFE.—35. CAMELOPARDALIS.

Has simple persistent horns, covered with skin, blunt and abrupt at the ends, and terminated with a tust of black hair. In the lower jaw are eight broad, thin fore-teeth; the outermost, in each side, being deeply divided into two lobes.

Of this genus there is but one species known; or rather the animal, though nearly allied to the Deer and Antelope kinds, is so singular in its structure as to require being considered, in system, as a distinct genus.

1. Camelopardalis. - 1. Camelopardalis Giraffa.

Is remarkably higher at the shoulder than at the rump. Schreber, v. t. cclv.

676

Camelopardalis. Plin. hift. nat. viii. c. 18. Dion Caffius, xliii. Oppian, cyneg. iii. 461. Gefit. quad. 160. Aldrov. bifulc. 927. f. p. 931. Jonft. quad. 98. t. 39. 45. Charelet. exerc. 13. Raj. quad. 90. Pr. Alp. Aeg. i. 236. t. 14. f. 4. Ludolf, Æth. i. c. 10. n. 33. comm. p. 149. Praeneftine pavement, in Schaw, fuppl. 88.—Cervus Camelopardalis. Syft. nat. ed. xii. 92. n. 1. Haffelq. It. Pal. 203. Act. Upfal. 1750, p. 15.—Orafius, or Oraflus. Vincent. fpec. doctr. 19. c. 97. Albert. de anim. 223.—Giraffa, Gyraffa, or Giraffe. Nieremb. hift. nat. 191. Belon, obf. 118. f. p. 119. Theven. cofinogr. i. 388. b. fig. fol. 389. a. Lobo, Abyfi. i. 292. Sm. Buff. vii. 107. pl. ccxi. Leo, Afr. 337. Klein, quad. Briff. quad. 61.—Camelus indicus, or Indian Camel. Jonft. quad. t. 40.—Camelopard Giraffe. Penn. hift. of quad. n. 15.—Tragus Giraffa. Zimmerm. 534.—Camelpard. Gefn. thierb. 236. f. p. 237. 238.

Inhabits Sennar, Ethiopia, and the interior parts of Africa; rarely in Abyffinia, and is never found in Guinea; it extends fouthwards to the country behind the Dutch fettlements at the Cape of Good Hope.—This fingular quadruped feeds chiefly on the leaves and tender sheets of trees, but likewise grazes occasionally, at which time it is obliged to spread its fore feet very wide. It is very gentle, timid, and fhy; runs very aukwardly, and is eafily taken, but is very fearce; when about to lie down, it kneels like the Camel; when standing erect and holding up its head, it measures seventeen feet from the crown of the head to the ground, eighteen feet from the point of the nose to the end of the tail, is only nine feet high at the rump, the neck is feven feet long, and the diffance from the withers to the rump is fix feet. This is a very handsome animal, of a dirty white, or mixed reddish and white colour, marked with numerous large rufty spots; the head somewhat resembles that of a Horse, having middle fized, erect, pointed ears, and short erect horns about six inches long, which are covered with a hairy skin; these are blunt, as if cut off at the ends, and tusted with a brush of coarse black hairs; the neck is long, thin, and erect, and is provided on the ridge with a short erect mane, which extends along the back almost to the origin of the tail; the tail is long and round, reaching to the fecond joint of the hind legs, and is tufted with long, flowing, coarse hairs at the end. It is a vulgar error that the fore legs are longer than those behind, for the great disproportion between the height of the fore and hind parts, depends on the great depth of the shoulders, and the length of the neck.

XXXVII. ANTELOPE.—36. ANTILOPE.

PECORA.

Has persistent horns, which are hollow, and filled with a flint or fpongey bone; they are mostly round and erected, and are frequently twifted spirally, or surrounded with rings. The lower jaw has eight broad fore-teeth; the upper jaw none; and there are no tulks in either.

To this character Mr Pennant adds, that the limbs are light and elegantly made; and that the infides of the ears are marked with three longitudinal feathered lines of hair. None of the numerous species of this genus are found in America; they are mostly confined to Asia and Africa, inhabiting the hottest regions of the old world, or the temperate zones near the Tropics, only two species being found in Europe, the Chamois and Saiga. They chiefly inhabit hilly countries, though fome refide in the plains; and some species form herds of two or three thousands, while others keep in small troops of only five or fix together. They often clamber up rocks, and brouze like Goats, and frequently feed on tender shoots of trees. They are very elegantly made, active, reftless, timid, shy, and aftonishingly fwift, running with vast bounds, and springing or leaping with surprising elasticity; frequently ftop for a moment to gaze at their purfuers, and then refume their flight. The Antelope forms an intermediate genus between the Deer and Goat, though arranged with the latter by Linnaeus, in his former editions, and by feveral other naturalists; but Dr Gmelin, in imitation of Pennant, Erxleben, and Pallas, has formed them with great propriety into a diffinct genus. In the form of their bodies they agree with Deer, and in the circumstances of their horns they resemble the Goats; they have all gall-bladders; diffinct lachrymal gutters, or pits, under the eyes; a plait of the skin divided into feveral cells in the groins; brushes of hair on the knees; and beautiful black eyes. In general their flesh is excellent, though fome species have a rank hircine, or musky flavour.

1. Blue Antelope. - 1. Antilope leucophaea. 1.

Of a bluish colour; the horns are roundish, annulated *, and bent backwards in an arch. Schreber, v. t. cclxxxviii. Pall. misc. zool. 4. Spic. zool. i. 6. and xii. 12.

Blauer Bock. Kolben, 141.—Blue Antilope. Penn. hift. of quad. n. 18. fig. p. 92.—Blue Goat. Kolben's Cape, Eng. ed. ii. 114.—Bouc-chamois. Journal Hift. 58. and fig. Br. Mus. Lev. Mus.

Inhabits the country to the north of the Cape of Good Hope.—This species is larger than a Fallow Deer; when alive the fur is of a fine blue colour, and velvet-like appearance, but when dead it changes to a bluish grey with a mixture of white; the under parts of the body are white, and there is a white blotch under each eye, and on the fore part of each foot; the ears are sharp pointed, and above nine inches long; the horns are arched, bending backwards, and marked with twenty prominent rings, but become smooth, taper, and sharp at the ends; the hair on the fur is long; the

^{*} The word annulated is employed in the definition, for shortness, to signify that the horns are furrounded by prominent rings .- T.

679

tail is about feven inches long, and is terminated by a tuft of longish hairs. This species, according to Mr Pennant, from the length of its hair and form of the horns, forms the link between the Goat and Antelope kinds, being allied to both.

2. Lerwee.—2. Antilope Lerwia. 2.

Of a reddish colour, with a remarkable tust of hair on the nape of the neck: The horns are wrinkled, bent backwards, distant in the middle, and approach each other at the base and points. Pallas, spic. zool. xii. 12.

Antilope Kob, with the horns annulated at the base, bent outwards in the middle, and much approaching at the tips. Erxl. mamm. 293. n. 23.—Kob, or Little brown Cow. Sm. Buff. vi. 406. D°. Fr. ed. xii. 210. t. xxxii. f. 1.—Fish-tall, or Lerwee. Shaw, It. i. 313.—Gambian Antilope. Penn. hist. of quad. n. 41.

Inhabits Africa, chiefly about the rivers Gambia and Senegal.—Is about the fize of the Fallow Deer; and is particularly remarkable by the tuft of hair on the nape of the neck, and by having long brushes of hair on the knees of the fore legs. The horns are about thirteen inches long, at the base they measure five inches and a half in circumference, their lower parts are furrounded with eight or nine rings, the middle parts are very distant, but the points, which are smooth, come very near each other.

3. Chamois.—3. Antilope Rupicapra. 3.

Has smooth, rounded, erect horns, which are hooked backwards at the ends. Schreber, v. t. cclxxix.

Antilope rupicapra. Pall. misc. 2001. 7. Spic. 2001. i. 4. and xii. 12. Erxleb. mamm. 268. n. 1.—Capra rupicapra. Syst. nat. ed. xii. 95. n. 4.—Hircus rupicapra. Brist. regn. an. 66. n. 4.—A'ž αγξιος. Oppian. cyneg. ii. 338.—Rupicapra. Plin. hist. nat. viii. c. 53. xi. c. 37. Gesn. quad. 321. f. p. 319. Aldr. bis. 725. f. p. 727. Jonst. quad. 74. t. 27. 32. Charlet. exerc. 9. Wagn. helv. 183. Raj. quad. 78. Klein, quad. 17. Scheuchz. It. Alp. i. 155. Rzaczins. Pol. 223.—Chamois, Cemas, or Ysard. Obs. de Belon, 54.—Ysard, Ysarus, or Sarris. Gaston, ap. Fouilloux Vener. 99.—Gems. Gesn. thierb. 140. Ridinger, jagdb. th. t. 12.—Cemas, or Kemas, of Ælian. and Herodicus. Bochart, hierozoic. iii. c. 22.—Chamois. Perr. an. i. 201. t. 29. Sm. Buss. vi. 363. pl. clxxxviii. Penn. hist. of quad. n. 17.

Inhabits the Alps of Dauphiny, Savoy, Swifferland, and Italy; the Pyrinean, Carpathian, Grecian, Cretan, Causcassan, and Taurus mountains.—Dwells in the most inaccessible rocky parts of the mountains, but seldom so high as the Ibex, and generally keeps in considerable flocks; feeds, mostly before sunrise and after sunset, on the twigs of shrubs, herbs, and roots, being particularly fond of the Meum athamanta, and certain balls, found in their stomachs, called *Egagropilae*, are supposed by Kramer, Hist. nat. Austr. 320. to be occasioned by that kind of food; in winter they retreat into hollows of the rocks to avoid the avelenches, or shooting of the snow. This animal has very nice sensations of smelling, sight, and hearing, and is exceedingly shy, timid, and swift; each herd has a leader, who keeps watch on an eminence while the rest are feeding, and gives a fort of hiss, as a signal, on seeing an enemy; they are hunted in winter for their skins, which make excellent soft shamoy leather, and for their stefs, which is reckoned very delicate; the sport is both hazardous and

:681

laborious, on account of the rugged mountains and rocks which they frequent, and they are mostly fhot with riffled guns. The Chamois is about the fize of an ordinary Goat, but has longer limbs, and the fur, at the beginning of fummer, is fhorter; it is of a deep reddish brown colour, with a blackish line along the back; the fore-head, top of the head, cheeks, throat, and insides of the ears, are white; the upper lip is half divided; the knees have brushes, or bunches of hair; the tail is fhort, and blackish underneath; the belly is yellowish; the hoofs are much divided: In both fexes the horns are black, flender, upright, and wrinkled, except at their extremities, which are hooked backwards; and behind each is a large orifice in the skin. They procreate in October or November, and in March or April the female has two or three young ones at a birth.

4. Nanguer .- 4. Antilope Dama. 4. 680

The horns are hooked forwards at the ends; the upper parts of the body are tawny yellow, the under parts white, with a white fpot on the cheft. Sm. Buff. vi. 300. pl. cxcvii. Schreber, v. t. cclxiv.

Antilope Dama, of a white colour, the back tawny, and having a tawny band at the region of the eyes. Pallas, mifc. zool. 5. Spic. zool. i. 8. and xii. 13. n. 4.—Dama. Plin. hift. nat. viii. c. 53. xi. c. 37. Gefn. quad. 334. Aldr. bif. 729. Jonft. quad. 75. t. 27. Raj. quad. 83.—Swift Antelope. Penn. hift. of quad. n. 28.; and, in his opinion, the Knuz, or Cemas, of Ælian, lib. xiv. c. 14.

Inhabits Senegal.—This animal is three feet ten inches in length, from the nose to the origin of the tail, and two feet eight inches high at the shoulder; the greater part of the body is white, but the back, upper parts of the fides, and the head, are tawny, or yellowish; there are, however, varieties in this species as to colour. Both sexes are furnished with horns, which are round, about eight inches long, confiderably bent or hooked forwards, and sharp pointed; there are only fix fore-teeth in the lower jaw. The Nanguer is very fwift, and is easily tamed; Ælian compares the flight of the KAMES, which Mr Pennant supposes to be the animal here described, to the rapidity of a whirlwind.

5. Nagor. - 5. Antilope redunca. 5.

Of a reddish colour, with stiff upright hair: The horns are bent forwards at the ends. Schreber, v. t. cclxv.

Antilope redunca. Pallas, mifc. zool. 5. Spic. zool. i. 8. xii. 13. n. 5.—Nagor. Sm. Buff. vii. 38. pl. ccii.—Red Antilope. Penn. hift. of quad. n. 29.

Inhabits Senegal, and at the Cape of Good Hope.—The length of this species is about four feet, its height two feet three inches; the horns are about five inches and a half long, with two flight fmooth rings at the base, and are bent gently forwards; the ears are almost as long as the horns: The general colour is a pale reddifh, paleft on the cheft. According to Dr Gmelin, this species is the Knuas of Ælian.

6. Biggel. - 6. Antilope Tragocamelus. 6. 682

The horns are bent forwards; the neck has a short mane; on the shoulders is a large tufted hump; the tail is long, and is terminated with flowing hairs. Schreber, v. t. cclxii. Antilope Antilope Tragocamelus. Pallas, mifc. zool. 5. Spic. zool. 1. 9. xii. 13. n. 6. Erxleb. mamm. 279.—Biggel. Mandefloe, voy. in Harris's coll. of voy. i. 775.—Quadruped from Bengal. Parfons, in Phil. Tranf. No. 476. p. 465. t. 3. f. 9. Do. abrid. xi. 898. t. 6.—Indostan Antilope. Penn. hist. of quad. n. 26.

Inhabits India.—This animal refembles the Camel in the reversed arch of its neck, and in its manner of kneeling down; it is near five feet high, when measured to the top of the hump. The hair is fost, short, smooth, and light ash coloured, in some parts dusky, beneath the breast and under the tail it is white, and on the fore-head is a black spot of a rhomboid sigure; the tail is about twenty-two inches long, and is terminated with longish hairs; on the lower part of the chest the skin hangs loose like the dewlap of a cow, and is covered with longish hair; the hinder parts of the body refemble those of an Ass; the limbs are slender; the horns are about seven inches long.

683

7. Nylgau.-7. Antilope picta. 7.

The horns are bent forwards; the neck and part of the back has a short mane; the fore part of the throat has a long tust of black hairs; the tail is long, and tusted at the end. Hunter, in Phil. Trans. lxi. 170. t. v.

Antilope picta, or painted Antelope. Schreber, v. t. cclxiii. A. B. Pallas, spic. zool. xii. 14. n. 7.—Antilope albipes. Erxleb. mam. 280.—White-footed Antilope. Penn. hist. of quad. n. 27. pl. vii.

Inhabits India.—This species is four feet and an inch high at the shoulder. The male is of a dark grey colour, with short horns; these are triangular and distant at their bases, and blunt at the ends, which bend a little forwards; there is a large white spot on the neck, just above the tust of hair, another between the fore legs, one on each fide behind the shoulder joint, one on each fore foot, and two on each hind foot, above the hoof: The semale has no horns; is of a pale brown colour; with two white, and three black bars on the fore part of each foot immediately above the hoofs: In both, the neck and part of the back have a short black mane, and the long tail is tusted at the end with black hairs; the ears of both are large, and similarly marked with two transverse black stripes; and both have a long tust of black hairs on the fore part of the neck or throat, about the middle. This animal is usually very gentle and easily tamed, but sometimes the male is very vicious; they have bred in England; the semale is supposed to go nine months with young, and brings two at a birth. The name Nyl-ghau, used in India, signifies Blue, or Grey Bulls.

684

8. Saiga. - 8. Antilope Saiga. 8.

The horns are pale and almost transparent, distant at the bases, and bent in form of a lyre *, having each three curvatures; the nose is very cartilaginous, much arched, thick, and seems truncated at the end. Pallas, misc. zool. 6. Spic. zool. xii. 14. n. 8. and

21

^{*} In describing the horns of the species of this genus, from the peculiarities of which some of the most striking specific characters are derived, Dr Gmelin, in several, employs the term lyratus, or bent in form of an ancient lyre, that is receding in the middle, approaching towards the summits, and again receding from each other — T.

685

21. t. 1. and 3. f. 6. 9. 10. 11. S. G. Gmelin, It. ii. 174. t. 12.; and Nov. com. Petrop. xvi. P. i. 512. Forfter, in Phil. Trans. lvii. 344.

Antilope fcythica, or Scythian Antelope. Pall. fp. zool. i. 9. Faunul. finenf. Erxleb. mamm. 289.—Scythian Antilope. Penn. hift. of quad. n. 37.—Capra tartarica, or Tartarian Goat. Syft. nat. ed. xii. 97. n. 11.—Ibex imberbis, or Beardlefs Ibex. J. G. Gmel. Nov. com. Petrop. v. 345. vii. fumm. 39. t. 19.—Saiga. J. G. Gmel. It. Sib. i. 212. Sm. Buff. vi. 393. D°. Fr. ed. xii. 198. t. 22. f. 2. Bell's trav. i. 43.—Colus. Strabo, geogr. vii. Gefn. quad. 893. Jonft. quad. t. 27.—Suhac. Aldrov. bifulc. 763. Charlet. exerc. ii. Rzaczinfci, Pol. 224. auct. 320.

Inhabits Poland, Moldavia, the Carpathian mountains, Caucassus, about the Caspian and Euxine feas, near lake Aral, in the Altaic chain, and generally from the Danube to the Irtish, never going farther north than about the fifty-fifth degree of latitude.—They dwell mostly in open deferts, which abound with falt fprings, and feed much on faline, acrid, and aromatic vegetables. In autumn they collect into vaft flocks, and migrate regularly into the fouthern deferts; in fpring they return northwards, and divide into finall parcels: They are exceedingly fly and timid; amazingly fwift, but foon fatigued; their voice refembles the bleating of sheep; they have a very quick sense of smelling, whichobliges the hunters always to approach them against the wind; and, when feeding or resting, the flock is always guarded by centinels; in fummer their fight is very weak. When taken young they are very eafily tamed, and become very docile; but the old ones are fo obstinate, when taken, as torefuse nourishment. They frequently walk backwards when feeding, and pluck the grass on each fide; and in walking they carry their heads very high. The Saiga is about the fize of a Fallow Deer, being a little more than four feet long; it has fix fore-teeth in each jaw, in which it differs not only from the other species of the genus, but from the whole order: The fur in summer is very short, of a grey colour, mixed with yellow, and darker on the legs below the knees; the fpace about the cheeks is whitish; the fore-head and crown of the head are hoary, and covered with long hairs; the under fide of the neck and body are white; the knees are furnished with brushes or tufts of hair; the tail is four inches long, naked below, covered above with upright hairs, and tufted at the end: In winter the fur becomes long, rough, and hoary. The head is large, and in the living animal the nofe ismuch arched, thick, and fwelling, with very open nostrils, but after death it grows flaccid, having no os nafi, or feptum; the horns are about eleven inches long, of a pale yellow colour, almost transparent, the greatest part of their length is surrounded with rings, and the extremities are sinooth. The female has no horns, her fur is fofter than that of the male; the rutting feafon is in November, at which time the males, otherwise very timid, will fight boldly in defence of their mates; and before the middle of May the females produce mostly one at a birth, the young animal being covered with a very foft, waved, and curled fleece, like that of a Lamb. They are hunted with guns, dogs, or even with eagles, for the fake of their horns and skins; they grow very fat in summer, but the flesh is scarcely eatable till it grows cold after being dreffed, owing to a rank or balfamic tafte it acquires from the nature of their food. Sometimes this animal is found with three horns, and, at other times, though very rarely, with only one; indeed the horns of this species are subject to very great variety in figure, notwithstanding the description given in the character; but they may always be distinguished by their pale colour and femitransparency, most other Antelopes having black opake horns.

9. Tzeiran. - 9. Antilope gutturosa. 9.

Of a reddish colour, having the horns bent in form of a lyre, and no brushes on the knees.

Pall. spic. zool. xii. 14. n. 9. and p: 46. t. 2. 3. f. 14.-17.

Antilope.

687

Antilope. Bell, trav. i. 311. 319.—Capra flava, Hoang Yang, Whang Yang, or Yellow Goat. Du Halde, Chin. ii. 253. 278. 290.—Ablavos. Le Brun, i. 115.—Capra gutturofa. Mefferschmidt, mus. Petrop. i. 336. n. 12.—Caprea campestris gutturofa. J. G. Gmel. nov. com. Petrop. v. 347. t. 9.—Tzeiran. Sm. Buff. vi. 405.—Chinese Antilope. Penn. hist. of quad. n. 36.

Inhabits the deferts of Mongalia, the whole fouthern deferts from China to Thibet, along the river Amur, in Tangut, the northern borders of India, and among the Burats fouth of lake Baikal. This animal is about the same size and form with the Common Antelope, being about four feet four inches long, and two feet and a half high at the shoulders; the horns are about nine inches long, furrounded with about twenty rings, or annular wrinkles, almost to the ends; they recline backwards, diverge at the upper parts, and approach at the extremity; are of a yellow colour and opake, in which latter circumstance they differ from the horns of the Saiga, which are almost transparent; the lachrymal furrows under the eyes are very finall; on the fore part of the neck is a large moveable protuberance, occasioned by a singular conformation of the wind-pipe; the cells in the groins are very large; in fummer the fur is fhort, close, and tawny, or of a rufty grey colour, on the upper parts of the body, and whitish on the lower parts; but in winter it grows long, rough, and hoary, so as to feem almost white at a distance: The head is thick, with a blunt nose, convex on its upper part; the ears are finall and pointed; the tail is fhort. This species keeps in considerable flocks, mostly in mountainous and rocky places, or in dry and sunny pastures, feeding only on sweet and tender herbs; they are extremely fwift, and take prodigious leaps, and, though very shy and timid, will not take the water even when driven to extremity, and are equally fearful of woods; when taken young they are easily tamed; they run in a regular file, which is led by an old animal; they feed in fmall parcels, during fpring and fummer, but collect into great flocks before winter. The male has a remarkable bag or follicle, at the orifice of the prepuce, which is fometimes filled with a waxy or glutinous matter, but is generally empty; the female has no horns, but is of the same colour with the male; they procreate in winter, confiderably later than the Saiga, and the female brings forth about the beginning of June. They are much hunted by the Tartars, who are fond of their flesh, and the horns are a confiderable article of commerce with the Chinefe.

10. Persian Antelope. - 10. Antilope subgutturosa. 23.

The horns are bent in form of a lyre; the upper parts of the body are of a brownish ash colour, the under parts pure white, with a yellowish white stripe along each side. Schreber, v. t. cclxx. B. Galdenstedt, in act. Petrop. an. 1778, i. 251. t. 9.-12.

Inhabits Persia between the Caspian and Euxine.—This species resembles the Roe in size and appearance; it lives in large slocks, feeding chiefly on the Artemisia pontica; the horns are above thirteen inches long, and smooth at the points; the throat has a degree of protuberance at the fore part, owing to the size of the head of the wind-pipe; and the knees are provided with brushes. The female brings forth in May. The sless of this species is reckoned extremely good.

11. White-faced Antelope. - 11. Antilope pygarga. 10.

The horns are bent in form of a lyre: The general colour is a hoary red, with a blood red or bright bay neck, a deep red band along the fides, white buttocks, and a white face. Pall. sp. zool. i. 10. xii. 15. n. 10. Schreber, v. t. cclxxiii. Sparrman, act. Stock. 1780, 3. 4.

Antilope Dorcas. Pall. mifc. zool. 6.—Cervicapra. Houttyn, Linn. ed. belg. iii. t. 24. f. 1.— Klipspringer, or Springbock. Sparrman, voy. ii. 224. pl. 5 .- White-faced Antilope. Penn. hist. of quad. n. 37.

PECORA.

Inhabits the countries to the north of the Cape of Good Hope.—This species is about five feet four inches long, and three feet high at the shoulders: It runs with great velocity, and makes astonishing bounds, even on the most precipitous and rocky places, so that it is caught with great difficulty, though its flesh is much esteemed: The horns are about fixteen inches long, they bend outwards in the middle, and approach at the points; on the males the lower third of each horn has fix or feven rings, and the rest is smooth, while on the females the horns have no rings; the ears are about feven inches long: The face is white; the cheeks and neck are bright bay; the back is brown ash colour mixed with red; the fides, flanks, and fhoulders are deep brown; the belly, rump, and middle of the back behind, are white; a dark brown lift begins at the back of the neck, on the ridge of the back, which foon divides and reaches down the outer fides of the hind thighs; and a fimilar band, from the shoulder joint, divides the sides from the belly, and extends down the outside of each fore leg; the tail is about feven inches long, and is terminated with fome longish black hairs; the legs are flender, and the hoofs are fhort.

Dr Gmelin quotes the Koba of Buffon and Mountain Antelope of Ruffel as fynonimes of this fpecies, but, at the fame time, denotes his uncertainty by a point of interrogation, and fays, from this circumftance, that it is perhaps found in hither Afia; but, on the authority of Mr Pennant, I have referred the Koba to another species to be described hereaster, and it is hardly to be supposed that the fame species should be found near Aleppo, and in the southern extremity of Africa, without exifting in the intermediate places; besides the Count de Busson refers Russel's animal to the Pasan, or Egyptian Antelope.—T.

12. Springer Antelope.—Antilope faltans.

The horns are flender, twice contorted, and annulated half way: The general colour is a pale brown, the cheft, belly, infides of the limbs, buttocks, and half way up the back, are white; with a broad chefnut coloured band along the fides. hist. of quad. n. 35. Masson, in Phil. Trans. lxvi. 310.

This animal, if different from the White-faced species, inhabits at the Cape of Good Hope.—It is. less than a Roe, and weighs about fifty pounds; it migrates annually from the interior parts of the country in fmall herds, continues for two or three months near the Cape, and then goes off towards the north, in herds of many thousands; fometimes, generally after an interval of seven or eight years, this fpecies comes from the north in flocks of many hundred thousands, probably compelled by exceffive drought, and, fpreading over Caffraria, defolates the whole country, hardly leaving a blade of grafs; they are attended in their migrations by Lions, Hyaenas, and other beafts of prey. The face, cheeks, chin, nofe, and fore part of the neck are white; with a dufky line, which paffes from the base of each horn down the fide of the face, involving the orbits, to the corner of the mouth; the most remarkable part of its description is, that, when alarmed, it has the power of expanding the white stripe above the tail into a circular form, which returns again to its linear form when the animal is at rest. After all, it seems uncertain if there be any difference between this animal and the White-faced Antelope immediately preceding; for, in the form of their horns and disposition of the dark coloured bands, they exactly agree .- T.

190

91

13. Barbary Antelope .- 12. Antilope Dorcas. 11.

The horns are bent in form of a lyre: The upper parts of the body are reddilfing brown, the under parts and buttocks white, and both are divided by a dusky line along the fides. Pall. misc. 2001. 6. n. 7. Spic. 2001. i. 11. n. 8. xii. 15. n. 11. Schreber, v. t. cclxix. Sparrm. act. Stock. 1778, ii. n. 4.

Capra Dorcas. Syst. nat. ed. xii. i. 96. n. 10.—Hircus africanus, sf. Gazella africana; African. Goát, or Antelope. Briss. regn. an. 69. n. 10.—Gazella africana, or African Antelope. Raj. quad. 80.— Δ_{0} ezas. Ælian, hist. an. xiv. c. 4.—Dorcas, of the ancients, and Tzebi, of the Bible. Shaw, It. 152. 357.—Gazelle, or Barbary Antilope. Sm. Buff. vi. 397. pl. exciv. Penn. hist. of quad. n. 32. fig. in the title page.

Inhabits Barbary, Egypt, Arabia, and Syria.—This animal is about half the fize of a Fallow Deer; the horns are about twelve inches long, and furrounded with about thirteen prominent rings, a fmall part of the ends only being fmooth; they incline first backwards, then bend a little outwards in the middle, and the ends, which approach, revert somewhat forwards; the knees are each furnished with a long brush, or tust of hair; the tail is short, covered with longish black hairs, and is white underneath. This species is supposed by Dr Gmelin to be the Dischon of Moses; perhaps the animal mentioned in the books of Solomon, and, in our translation, named the Roes of the mountains: It goes in large slocks, is easily tamed, though naturally very timid, and is reckoned excellent eating.

14. Kevel.—13. Antilope Kevella. 12.

Has large horns, which are flattened, and bent in form of a lyre: The fur is yellowish, with pale streaks; and a dark coloured band runs along each side. Pall misc. zool. 7. n. 9. Spic. zool. i. 12. n. 9. xii. 15. n. 12. Schreber, v. t. cclxx.

Ahu. Kaempf. amoen. 408.—Kevel. Sm. Buff. vi. 400. pl. exev.—Flat-horned Antilope. Penn. hift. of quad. n. 33.

Inhabits Barbary, Senegal, and Persia.—Is about the fize of a small Roe: It lives in large flocks, and, like most species of the genus, is reckoned very delicate eating, though it has a musky odour when alive. In both sexes the horns are surrounded with prominent rings, usually from sourteen to eighteen, except the ends, which are smooth; they are bent in the same manner with those of the former species, and in general the two animals resemble each other very much, except that the horns of this species are flatted, and have a greater number of rings.

15. Corine. - 14. Antilope Corinna. 24:

Has very slender, short, smooth, straightish horns, bent slightly into the form of a lyre: The upper parts of the body are yellowish tawny, the under parts white, with a dusky stripe along the sides, and two lines on each side of the face, the upper one white and the other black. Pall. misc. zool. 7. n. 10. Spic. zool. i. 12. and xii. 15. n. 12.

B. Schreber, v. t. cclxxi.

Corine. Sm. Buff. vi. 401. pl. exevi. Penn. hift. of quad. n. 38. Lev. Muf. Vol. I.

Inhabits Senegal.—This animal is lefs than a Roe; the neck, body, and flanks are of a tawny yellow colour, the infides of the thighs and belly are white, and a dark line, along the fides, divides the two colours; the knees are tufted with hair; the ears are large; the horns are about fix inches long, almost upright, bending a little outwards in the middle, and somewhat approaching at the tips, the lower parts being surrounded with circular wrinkles. This species resembles the Kevel, in colour, fize, swiftness, and musky odour; but differs very much from it in the figure of the horns; though Dr Gmelin, following the celebrated Pallas, is disposed to suspect that it is the semale of that species.

692

16. Bubalis.-15. Antilope Bubalis. 13.

The horns are thick, twisted spirally, annulated, bent in form of a lyre, almost straight and upright at their ends; the head and tail are somewhat lengthened. Pall. sp. zool. i. 12. n. 10. xii. 16. n. 13. Erxleb. mam. 291.

Bουβαλος. Oppian, cyneg. ii. 300. Arift. an. iii. c. 2.—Bubalus. Plin. hift. nat. viii. c. 15. Gefn. quad. 330. Aldrov. bifulc. 303. 365. 735. Jonft. quad. 52.—Yachmur, of the Bible. Shaw, It. 151. 358.—Bucephalus. Caj. op Gefn. quad. 121. Raj. quad. 81.—Capra Dorcas. Houttuyn, ed. Lin. belg. 213. t. 24. f. 3.—Antilope bufelaphus. Pall. mifc. zool.—Bubale. Buff. Fr. ed. xii. 294. t. 37. 38. f. 1. 3.—Bubalus. Sm. Buff. vii. 1.—Vache de Barbarie. Act. Parif. i. 205. Valent. amphith. zoot. 88. t. 14.—Cervine Antilope. Penn. hift. of quad. n. 39. Lev. Muf.

Inhabits Africa, especially Barbary, but is likewise found near the Cape of Good Hope and in Arabia.— Is about four feet high, and of a middle appearance between the general form of the Deer and Ox tribes, with the head resembling that of an Ox: The horns are about twenty inches long, very strong and black, almost close at their bases, and distant at the points; the general colour is a reddish brown, the belly, inner side of the thighs, and a space about the rump are white; with a dark coloured bed on the ridge of the back, the upper part of the fore legs, and hinder parts of the thighs; the tail is about a foot long, is terminated by a tust of longish hairs, and resembles that of an Ass. It feeds solitarily, gallops heavily, yet with great swiftness, sights on its knees, and the sless is reckoned rather dry. This species, according to Mr Pennant, is the animal called Hart-beest at the Cape, and Sparrmann is quoted by Dr Gmelin as describing it under the same name in the Stockholm Transactions, though the figure of the Hart-beest, in his journey to the Cape, differs very considerably in the form of the horns, which bend much backwards at their ends, from which it is more probably the next species.

693

17. Koba. - Antilope Koba.

The horns are thick and annulated, very close at the roots, bent out greatly in the middle, approach again, and then recede at the ends, which are smooth, sharp, and bent backwards.

Senegal Antilope. Penn. hist. of quad. n. 40. f. p. 92.—Cervus Temamaçama. Seba, mus. i. 69. t. 42. f. 4.?—Antilope Bubalis. Pall. spic. zool. xii. 16.—Koba. Sm. Buff. vi. 405. D°. Fr. ed. xii. 210. 267. t. xxxii. f. 2.—La grand vache brunne. Adanson, voy. to Senegal. Lev. mus.

Inhabits Senegal.—This is a large species, the skin, in Mr Pennant's possession, being seven feet long; the head is large and clumsy, with large ears, seven inches long; the horns are seventeen inches long and are surrounded with sisteen prominent rings; the head and body are of a light red-

PECORA.

dish brown colour, with a narrow black lift down the hind part of the neck; the rump is dirty white; there is a dusky mark on each knee, and above each fetlock joint; the tail is about a foot long, and is covered with longish black hairs.

694

. 18. Gnou. - 16. Antilope Gnu. 25.

The horns are thick, rough, and bent much forwards at the base, then suddenly turned backwards, hooked, fmooth, and distant at the ends: The neck has a mane. Sparrmann, in act. Stock. ann. 1779, i. n. 7. t. 3. Penn. hift. of quad. n. 16.

Gnu. Sparrman, voy. ii. pl. 2.—Bos Gnou. Zimmerman, 372. Journ. hiftor. 53. f. p. 54. Lev. mus.

Inhabits the country of the great Namaquas to the north of the Cape of Good Hope.—Feeds in large flocks in the plains; is exceedingly fierce, very fwift, and fights with its horns; it frequently drops on its knees, and runs quickly along in that posture, furrowing the ground with its horns and legs; it is a fingular animal, liaving the body like a Horfe, with a thick bull-like head, elegant taper legs like a Deer, and the lachrymal furrows of the Antelope tribe. It is about fix feet and a half long, and three feet and a half high at the shoulders; of a dark rusty brown colour, the hairs being fhort, finooth, and tipt with white; on the breast and between the fore legs the hairs are long and black; the head is very large, thick, and clumfy, with a fquare mouth and broad flaps over the noftrils, having fhort stiff hairs on both lips; these on the under lip are intermixed with long bristles; on the lower part of the face, over the nofe, is a thick oblong brush of long, stiff, black, reslected hairs, on each fide of which the hairs are long, flat, and pointing downwards; on the chin and gullet is a long hanging beard, or bunch of white hairs; the neck is short, thick, somewhat arched, and has a ftrong, creet, ash coloured mane, which reaches from between the horns to below the shoulders; the tail is long, white, and flowing, like that of a Horfe; the feet have only one fourious hoof on each. The females are provided with horns perfectly fimilar to those of the males, but in the young animals they are quite straight. The flesh is reckoned very good.

595

19: Pafan .- 17. Antilope Oryx. 14.

Has straight, slender, distinctly annulated horns, which taper to a point: The body and fides are of a reddish ash colour, having a raised dusky line along the back, the hairs of which, at the posterior end, are reversed. Pall. spic. zool. xii. 16. n. 14. and p. 61. Schreber, v. t. cclvii...

Antilope recticornis, or Straight-horned Antelope. Erxleb. mam. 272. n. 3. Pall. in nov. com. Petrop. xiii. 468. t. 10. f. 5, -Antilope bezoartica, or Bezoar Antelope. Pall. misc. zool. 8. Spic. zool. i. 14.--Gazella indica, or Indian Antelope. Raj. quad. 79.-Capra gazella africana, or African Goat antelope. Haffelqu. It. 283.—Capra gazella, or Goat Antelope. Syft. nat. ed. xii. i. 96. n. 7. Briff. quad. 67.—Oryx. Agathar. peripl. Plin. hift. nat. ii. c. 40. viii. c. 53. x. c. 73. Columell. ruft. ix. ç. 1. Martial. epigr. i. 13. Macrob. faturn. 3.—Pafan. Sm. Buff. vi. 408. D°. Fr. ed. xii. 212. t. 33. f. 3. Journ. hiftor. 56.—Egyptian Antilope. Penn. hift. of quad. n. 19. Lev. muf.

Inhabits Syria, Arabia, Perfia, India, Egypt, Ethiopia, and at the Cape of Good Hope.—Is about the fize of a Fallow Deer; the skin of the individual examined by Mr Pennant was above fix feet fix

€698

inches long: The horns are near three feet long, straight, slender, annulated above half their length, and the rest smooth; the points are sharp, and about sourteen inches as under; the face is white, with a black spot at the base of the horns, another on the middle of the face, and one on each side reaching from the eye to the throat, joining that on the face by a transverse band of the same colour; the belly, rump, and legs are white; the white colour of the belly is divided, on the sides, from the red-dish ash coloured upper parts, by a broad longitudinal dusky band, which reaches to the breast; each leg is marked with a dusky spot below the knee; the tail is near two feet and a half long, and is covered with longish black hairs. This species is named Gems bock, or Chamois, at the Cape, and is supposed by Dr Gmelin to be the Zebi of the facred writers.

696 20. African Antelope.—18. Antilope Oreotragus. 26.

Has very straight, tapering, and sharp pointed horns, which are slightly wrinkled at the bases. Schreber, v. t. cclix.

Inhabits Africa.—The head is reddiff, the upper parts of the body are greenish yellow, and the under parts of a whitish ash colour; the tail is very short.

21. Algazel.-19. Amtilope Gazella. 15.

Has very long, wrinkled, slender, upright, tapering, and sharp pointed horns, which are slightly bent inwards at the ends. Pall. spic. zool. xii. 17. n. 15.

Capra bezoardica, or Bezoar Goat. Syst. nat. ed. xii. 96. n. 9.—Hircus bezoardicus. Brist. quad. 69. n. 10. Aldrov. bisulc. 756. Major, Eph. nat. cur. dec. i. a. 8. p. 1. t. 1. Mus. bresl. t. 10. f. 3. 4. Valent. mus. museor. ed. ger. i. 193. t. 36. f. 2. 4.—Animal bezoarticum. Raj. quad. 80.—Animal ignotum. Gesn. quad. 309. f. p. 38.—Gazella. Belon. obs. 120. Prosp. alp. hist. aegypt. 232. t. 14.—Bezoar Antilope. Penn. fyn. n. 15.—Algazel. Penn. hist. of quad. n. 21. Buss. Fr. ed. xii. 211. t. 33. f. 1. 2. Sm. Buss. vi. 414. Br. mus. Ashm. mus. Lev. mus.

Inhabits India, Persia, even its northern parts, Egypt, and Ethiopia.—Runs swiftly up hill, but rather slowly on plain ground; it is gregarious, and very easily made tame. The general colour of the fur is red, with a white breast and belly. The real oriental Bezoar, which is of a greenish and bluish colour, and when recent has a very powerful aromatic odour, is frequently found in the fourth stomach of this species, chiefly in those of males and full grown animals, and more seldom in the stomach of semales or younger individuals.

22. Leucoryx.—20. Antilope Leucoryx. 16.

Has very long, flender, upright, taper, sharp pointed horns, very slightly bent backwards, and annulated at the bases: The body is of a milk white colour. Pall spiczool. xii. 17. n. 16.

Gazella indica, having fingular horns. Nov. com. Petrop. xiii. 470. t. 10. f. 5.—Oryx. Oppian. cyneg. ii. v. 445.—Leucoryx. Penn. hift. of quad. n. 20. pl. vi.

Inhabits the island of Gow Bahrein in the bottom of the Persic Gulph near Bassora.—This species is about the fize of a Welsh Runt, or small Cow; the head is large and broad, with a thick broad

PECORA.

nose, like that of a Cow, and somewhat slouching ears; the body is thick and clumfy, and the whole is of a pure white colour, except the middle of the face, the fides of the cheeks, and the limbs, which are tinged with red; the tail is longish, and is tusted at the end with a brush of hairs; the horns are very long, flender, fharp-pointed, and of a black-colour. Mr Pennant's plate is from a drawing which was done from the life, and is preferved in the British Museum. Dr Pallas mentions a horn, apparently belonging to this animal, or force nearly refembling species, being found, in a fossile state, in Siberia. The female comes into feafon in autumn, and brings forth in fpring.

699

23. Coudous. - 21. Antilope Oreas. 17.

Of a grey colour; having straight, tapering, sharp pointed horns, which are surrounded at the base with a spiral ridge. Pall. spic. zool. xii. 17. n. 17. Schreber, v. t. cclvi.

Antilope oryx. Pall. mifc. zool. 9. Spic. zool. i. 15.—Mazame. Seb. muf. i. 69. t. 42. f. 3.— Pacaffe. Church. voy. i. 623.—Coudous, or Coefdoes. Sm. Buff. vii. 40. Do. Fr. ed. xii. 357. t. 46. 47.—African Elk. Kolben, Cape. i. 145. t. 3. f. 1.—Eland. Sparrm. in act. Stock. 1779, ii. n. 5. t. 5. fig. imf. -Elk antelope. Sparrm. voy. ii. pl. 1. f. 2. -Indian Antilope. Penn. hift. of quad. n. 22.

Inhabits India, Congo, and near the Cape of Good Hope.—Dwells mostly in the mountainous parts of the country, living in herds, but the older males are often folitary. They grow very fat, especially about the breaft and heart, and are easily caught, as they cannot run with any speed, and even frequently fall down dead during the chace. This animal is thick in the body, ftrongly made, and is near five feet high at the shoulder; the head is reddish, with a dusky line on each cheek, and a stripe 💉 of long loofe hairs on the fore-head; the body is of a bluish ash colour, fometimes white, and spotted with red and grey; it has a short black mane along the neck and ridge of the back; the tail is shortish, and is tusted with black hairs at the end; the females have horns exactly similar to those of the males, and both are made into tobacco-pipes by the Hottentots. The flesh is fine grained, very juicy, and is reckoned delicious. The lachrymal groove is wanting in this fpecies.

700

24. Guib .- 22. Antilope scripta. 18.

The horns are straight, tapering, sharp pointed, and directed backwards, having two fpiral ridges along their whole length; the body is marked with two longitudinal white bands along the fides, which are croffed by others in a perpendicular direction. Pall. misc. zool. 8. n. 14. Spic. zool. i. 15. xii. 18. n. 18. Schreber, v. t. cclviii.

Guib. Sm. Buff. vii. 12. pl. exeviii.—Bonte bock, or Spotted Goat. Kolben, Cape. ii. 115.— Harneffed Antilope. Penn. hift. of quad. n. 23.

Inhabits Africa.—Lives in large herds in the plains and woods; the horns are about nine inches long; the ears are broad; the general colour is chefnut, with two white stripes along each fide, crossed with two perpendicular stripes from the back to the belly, and two perpendicular stripes on each hip, altogether giving the appearance of harnafs; beneath each eye is a white fpot; and there are fome white fpots on the thighs; the under part of the neck, a part of the cheeks, and the inner parts of the legs are white; the fore-head and ridge of the back are black. This animal is four feet and a half long, from the nofe to the rump, and two feet eight inches high; the tail is ten inches long, and is covered with long hairs. It is called Oulofes, or Jalofes, by the Negroes.

25. Grimm .- 23. Antilope Grimmia. 19.

Has short, slender, straight, sharp pointed horns, which are surrowed their whole length, and slightly annulated at the bases; a large lachrymal cavity under each eye, and a tust of black hairs between the horns.

Antilope Grimmia, having straight compressed conical horns, with longitudinal wrinkles, as if much worn, and a black lachrymal cavity below each eye. Syst. nat. ed. Gmel. 191. n. 19. Pall. misc. 2001. 8. 10. t. 1. 3. 4. fig. 3. a. b. Spic. 2001. i. 38. t. 3. xii. 18. n. 19. Schreber, v. t. cclx. Erxleb. mam. 276. n. 7.—Moschus Grimmia. Syst. nat. ed. xii. i. 92. n. 2.—Capra Grimmia. Syst. nat. ii. 51. vi. 14. n. 10. x. 70. n. 10.—Tragulus africanus. Briss. quad. 97. n. 4.—Grimm. Misc. nat. curios. dec. ii. a. 4. p. 131. f. 13. Raj. quad. 80. Klein, quad. 19. Sm. Buff. vii. 14.. pl. cxcix.—Guinea Antilope. Penn. hist. of quad. n. 24. Lev. mus.

Inhabits Guinea.—This is a very elegant animal, about eighteen inches high at the fhoulder; the horns of the male are about three inches long, and the females are faid to be hornless; the colour is variable, some being of a bright bay colour, while others are brown, mixed with ash colour, and tinged with yellow; the belly is white, and the tail, which is short, is white beneath, and black on the upper part: Between the horns is a small erect pointed tust of black hairs; a black stripe runs down the middle of the face; under the chin is a small hairy wart, the ears are large, and have three longitudinal depressions on the outside; on each side, between the eyes and the nose, is a large depression, always moist, and containing a small quantity of a viscid gummy humour, which soon hardens and becomes black; the legs are ash coloured, remarkably slender and elegant, the fore legs being adorned with a black band as far as above the knees, and having only a slight excressence instead of spurious hooss.

702.

26. Guevei.—24. Antilope pygmaea. 20.

Has very short, conically pointed, twisted horns, which are wrinkled at the bases.

Pall. spic. zool. xii. 18. n. 20.

Hirsche ihre Koenige, or King of the Harts. Bosman, voy. to Guin. 252.—Cervus perpusillus, s. Cervula africana. Seba, mus. i. 70. t. 43. f. 3.—Guevei-cajor. Adanson, voy. 207. Sm. Buff. vii. 27. Do. Fr. ed. xii. 315. t. 43. f. 2.—Royal Antilope. Penn. hist. of quad. n. 25.—Petite biche. Des Marchais, i. 312.

Inhabits Senegal, Guinea, and the hottest parts of Africa.—This very elegant little animal is only about nine inches high, and yet is so exceedingly active that it is faid to leap over a twelve feet wall; it is of a reddish brown colour, with jet black horns about two inches long, the semales having no horns; the ears are broad, and the legs are scarcely bigger than goose-quills. It is easily made very tame and familiar, but is so extremely tender as not to bear being transported to Europe.

703

27. Wood Antelope. - 25. Antilope Sylvatica. 27.

The horns are smooth, somewhat spirally twisted, annulated at the bases, and marked with several longitudinal ribs, the ends being taper, and sharp pointed. Sparrm. in 26t. Stock. 1780, iii. n. 7. t. 7. Schreber, v. t. celvii. B.

Wood Goat, or Bosch bock. Sparrm. voy. ii. pl. 2. f. 2.

705

Inhabits near the Cape of Good Hope.—This species dwells chiefly in the woods, and lives together in pairs; it is about three feet high; the upper parts of the body are brown, with a whitish forehead, two white spots on each cheek, a large white spot under the throat, and another at the bottom of the neck; the breast and hinder part of the belly are white, and there are several white spots on the thighs and slanks; the tail is exceedingly short, and a short mane runs along the neck and ridge of the back; the whole sur is longish and coarse; the horns are from ten to thirteen inches long, and of a black colour, they have several longitudinal ribs which wind once around their whole length, giving them an angular appearance, and they have a gentle spiral twist, the ends are very sharp, and recede from each other; the semale has no horns.

28. Condoma. - 26. Antilope Strepsiceros. 21.

Has long, compressed, wrinkled, tapering, sharp pointed spiral horns, having a ridge on one side which follows the wreaths; the body has a white line along the back, and several white stripes across from that down the sides towards the belly and thighs. Pall. spic. 2001. i. 17. xii. 19. 67. Misc. 2001. 9. Schreber, v. t. cclxvii.

Cervus capenfis, or Cape Deer. Collin. act. ac. theod. palat. i. 487.—Bos Arepficeros. Aldr. bif. 368. f. p. 369.—Animal anonymum. Houttuyn, Syft. nat. ed. belg. iii. t. 26. f. 1. 2.—Strepficeros. Caii, opufc. 56. Gefn. quad. 295. 323. ic. 31. Jonft. quad. 54. t. 24.—Condoma. Sm. Buff. vii. 8. Do. Fr. ed. xii. 301. t. 39. f. 1. 2. and xv. 142.—Striped Antilope. Penn. hift. of quad. n. 30. Forfter, voy. i. 84.—Africanifcher Kutu. Knor. del. ii. t. K. 5. f. 1. 4. K. 11.—Wild goat? Kolben, Cape. ii. 115. t. 6.? Journ. hift. 42. and fig. Lev. muf. Brit. muf. Afhm. muf.

Inhabits the country near the Cape of Good Hope.—This species is near nine feet long from the nose to the rump, and four feet high at the shoulders; the body is long, slender, and of a reddish grey colour; the face is brown, having a white line from the corner of each eye, running forwards and uniting above the nose; in general the transverse stripes, mentioned in the character, are seven in number, four of which point toward the thighs, and three to the belly, but their number varies; there is a short mane on the neck, and some long hairs hang down from the throat to the breast; the breast and belly are grey; the tail, which is two feet long, is brown above, white on the under part, and black at the end. The horns are of a dusky colour, and naturally wrinkled, though such as are brought to Europe are generally highly polished; they are near four feet long, are very close at the bases, above two feet and a half distant at the points, and have two spiral screw-like turns. The female has no horns. It is said to leap with surprising activity to a vast height.

29. Lidmee. - 27. Antilope Gervicapra, 22.

Has long, round, prominently annulated, tapering, and spirally twisted horns, which are smooth and sharp at the points. Pallas, misc. 2001. 9. Spic. 2001. i. 18. 19. t. 1. 2. xii. 19. n. 22. Schreber, v. t. cclxviii.

Antilope, having annulated spiral horns, the body being of a brown colour above and white on the under parts. Erxl. mam. 283. n. 14.—Lidmee, or Indian Antelope. Sm. Buff. vi. 412. 413. D°. Fr. ed. xii. 215. 217. t. 35. 36. f. 1. 2.—Common Antilope, and Brown Antilope. Penn. hist. of quad. n. 31. and n. 31. a. pl. viii.—Gazella africana, s. Antilope. Charlet. exerc. 67. Raj. quad.

quad. 79. n. 4. Grew, muf. 24.—Capra cervicapra. Syst. nat. ed. ii. 50. vi. 14. n. 7. x. 69. n. 8. xii. 96. n. 8.—Capra bezoartica. Aldrov. bif. 256. Olear. muf. 13. t. 9. f. 7.—Tragus strepsiceros. Klein, quad. 18.-Hircus gazella. Briff. quad. 68. n. 8.-Gazella. Jonft. quad. t. 29. Act. Parif. i. 84. Valent. amph. zoot. 105. t. 19. Scheuchz. bibl. facr. iv. t. 576.—Strepficeros, et Addax. Plin. hift. nat. xi. c. 37.-Lidmee arabum. Shaw, trav. 243. Br. muf. Ashm. muf. Lev. muf.

Inhabits Barbary and India.—This species is somewhat smaller than a Fallow Deer, and is of a brown colour, clouded with reddish and dusky; the belly, breast, and inside of the thighs are white; the circumference of the orbits is white; the horns are erect, about fixteen inches long, of a black colour, and almost entirely covered with prominent rings, the points only being smooth, and are above twelve inches diftant. The female has no horns, and, after going nine months with young, brings generally twins. Mr Pennant makes a diffinction between the Lidmee of Barbary and that found in India, though the only difference feems to confift in the greater fize of the former, the latter being rather smaller than a Roe; he likewise mentions horns frequently sent from India, which have been used as daggers, which seem to belong to this species, but have all their rings polished off.

XXXVIII. G O A T.—37. CAPRA. 30.

Has rough, compressed, hollow, and persistent horns; which are erected from the top of the head, and bend backwards. Has no tusks; eight cutting teeth in the lower jaw, and none in the upper. The chin is furnished with a beard.

The animals of this genus are fond of dry elevated fituations, on rocky hills, and feed much on aromatic vegetables; they differ from Sheep chiefly in the erected fituation of their horns, in being covered with hair inftead of wool, and in a rank difagreeable odour, especially the males, which, from them, has acquired the name of hircine, even when exhaled from other animals, and even from fome vegetables. In their natural state they are exceedingly shy and timid, but are easily tamed, and become very familiar: The males fight much in rutting time, and differ in this from Sheep or Rams, as the latter run full tilt at each other with their heads held down, whereas the Goat rifes almost erect on his hind legs, and turns his head on one fide to firike his antagonift with his horns. Some naturalists suppose the first of the following species to have been the original stock of all our Goats; but that opinion feems chiefly founded on theory. I have not however taken any liberties with the arrangement given by Dr Gmelin, as the descriptions are so distinct that no difficulty of discriminating the feveral kinds, whether they be ultimately confidered as species or variety, can possibly occur to the reader. There were no animals of this genus originally in America; but they are now very plentiful in many parts, and of various breeds.

1. Wild Goat .- 1. Capra Aegagrus. 1.

Has large, fmooth, black horns, which are sharply ridged on their upper, and hollowed on their under furfaces, and much arched backwards; the chin is furnished with a beard. Pallas, sp. zool. xi. 45. t. 5. f. 2. 3. S. G. Gmel. it. iii. 493.

Cervicapra,

706

708

Cervicapra, or Paefen. Kaempf. amoen. exot. 398. t. 4. n. 1.—Stein bock. Ridinger, jagd. th. t. 11.—Chevre fauvage. Tavernier, It. ii. 143. Monad. de lap. bezoar. 8.—Caucafan Goat. Penn. hift. of quad. n. 14. Zimmerman. 662. Lev. muf.

Inhabits the lower mountains of Caucasus and Taurus, Asia Minor, Laar and Khorazan in Persia, probably in India and Africa.—The horns of this animal have no knobs or rings, but on the upper furface are a few wavy wrinkles; they are very large, sometimes weigh ten pounds, and measure three feet long; they are very close at the base, bend much backward, and are even hooked at the ends, which approach a little. The general colour of the animal is grey, sometimes mixed with rust colour having a dusky list along the middle of the back; the fore part of the head is black, the cheeks are mixed with brown, and the chin has a large beard of a dusky colour, mixed with chesnut; the tail is black. In fize, it is superior to the largest domestic Goat, and resembles the Stag in agility and elegance of form. The semale has no horns, or very short ones. Some authors say that, when hard pressed by the hunters, it will throw itself from a precipice, and save itself by falling on the horns.

2. Common Goat.—2. Capra Hircus. 1. \beta.

The horns are ridged, and much arched backwards, with a curvature outwards at the ends; and have a beard on the chin. Syst. nat. ed. xii. 94. n. 1. Faun. Suec. 44. Forster, in Phil. Trans. lvii. 344.

Hircus, having arched horns, which are sharp edged on the inside, rounded outwardly, and ridged below. Brist. regn. an. 62. n. 1.—Tragus domesticus. Klein, quad. 15.—Capra domestica. Sloan, jam. ii. 328.—Hircus domesticus. Charlet. exerc. 9.—Caper hispanicus. Jonst. quad. t. 26.—Capra, Hircus, or Hoedus. Plin. hist. nat. viii. c. 50. Gesn. quad. 270. 301. f. p. 302. 314. Aldrov. bis. 619. f. p. 635. Jonst. quad. 65. t. 26. 27. Sibb. Scot. an. 8. Raj. quad. 77. Rzacz. Pol. 239. Schwenks: ther. 97. 98. 100. 101.—Tgayou, Alyes. Arist. hist. an. v. c. ii. vi. c. 15. viii. c. 13. ix. c. 4. Oppian. cyneg. ii. 326.—Bouc, et Chevre, or He, and She Goat. Sm. Buss. iii. 486. pl. xvi. xvii.—Geys, and Bock. Gesn. thierb. 127. f. p. 128. 135.—Siegen bock, Siege. Klein, quad. 15.—Domestic Goat. Penn. hist. of quad. n. 14. a. Brit. 2001. i. 29.

Inhabits most part of the world.—The chief distinction between this and the Wild Goat is, that, in the former, the horns rather approach at the points, whereas, in the Common or domestic Goat, the upper half of the horns bend much outwards; the latter is likewise a good deal smaller. The colour of the Domestic Goat is subject to great variety, and the length of the hair varies, being smooth and short in hot countries, while in the colder regions it is long and shaggy.

3. Angora Goat.—3. Capra angorensis. 1. y.

The whole body is covered with very long, foft, filky, hair. Briff. reg. an. 64 n. 2.

Act, in Aprice. Aelian. an xvi. c. 30.—Capra angorenfis. Haffelquift, It. 206. Olear, muf. t. 10. f. 2. Forfter, in Phil. Tranf. lvii. 344.—Chevre d'Angora. Tournef. It. ii. 185. Sm. Buff. iii. 498. pl. xviii. xix.—Angora Goat. Penn. hift. of quad. n. 14. s. Nieuhoff, in Church. voy. ii. 232. Strabo, xii. 823. Zimmerman. 134. Lev. muf.

Inhabits the country about Angora, Beibazar, and Cougna in Afiatic Turkey, and about Gomron in Persia.—Those of Angora are of a filvery whiteness, while those about Cougna are brown or black Vol. I. S. f. coloured.

coloured. The horns of the He-goat stand outwards directly from the head, and are twisted into a screw-like spiral, being sometimes above two feet long, and near three feet distant at the ends; while the horns of the semale are short, and bend first back, then down, and then forwards, almost close to the sides of the head. The ears are slat, pointed, and slouching.

709

4. Syrian Goat. - 4. Capra mambrica. 1. s.

The horns are short and much reclined backwards; the ears are very long and pendulous; the throat is bearded. Syst. nat. ed. xii. 95. n. 3.

Capra fyriaca. Briff. quad. 72. n. 13.—Capra indica, and Capra mambrina, or rather Syriaca. Gefn. quad. 1097. 1098.—Goat, with long hanging ears. Profp. Alp. i. 229. Aldrov. bif. 769. f. p. 768.—Capra mambrina indica, et C. mambrina fyriaca. Jonft. quad. 81. t. 26.—Capra mambrina, or C. fyriaca. Raj. quad. 81.—Geyffen, with hanging ears. Rauwolf. It. iii. 26.—Mambrina, or Syrian Goat. Sm. Buff. vi. 378.—Syrian Goat. Penn. bift. of quad. n. 14. 1. pl. v. Ruffel, Alep. 52. Zimmerman. 135. Nieuhoff, in Church. coll. ii. 232. fig. p. 231.

Inhabits Syria, India, Persia, and other parts of the east; is likewise brought sometimes to Aftracan by the Kirghisian Tartars.—The horns of this Goat are short, black, and transversely wrinkled; those of the male bend much backwards, and are divaricated and bent upwards at the ends; those of the female take a half turn, pointing forwards, close to the head: The ears are of an enormous length, and sometimes need to be cut off, to allow the animal to graze. This animal is somewhat larger than the Common Goat.

710

5. African Goat .- 5. Capra depressa. 1. 2.

The horns are short, thick, triangular, and laid close to the skull. Syst. nat. ed. xii. 95. n. 5.

Hircus, with depressed horns, or Capra parva, from America. Briss. quad. 65. n. 4.—African Goat, and Dwarf Goat. Sm. Buff. vi. 379. 380. 381. pl. clxxxix. cxc.—African Goat. Penn. hist. of quad n. 14. 3. Lev. mus.

Inhabits Africa.—This is a dwarfish animal, not much larger than a half grown kid of the common kind; the male has two long hairy wattles below the chin; these are wanting on the semale, which has much smaller horns: The hair of the male is rough and pendulous, that of the semale is smooth and short.

711

6. Whidaw Goat .- 6. Capra reversa. 1. 4.

The horns are short, erect, smooth, and turned forwards at the ends. Syst. nat. ed. xii 95. n. 6.

Ibex parvus, from America. Briff. quad. 65. n. 5.—Buck of Juda. Sm. Buff. v. 378. pl. excii. cxciii.—Whidaw Goat. Penn. hift. of quad. n. 14. e.

Inhabits Whidaw, or Juda, in Africa.—This species is dwarfish, being about the fize of a year old Kid of the common kind, and differs from the former chiefly in the form of the horns, and by wanting the wattles on the throat.

cellentt

712

713

7. Juda Goat. - Capra nana.

The horns are very thick, are rounded on the upper furface, and have two sharp edges below; they are bent backwards, with a flight spiral twist downwards, outwards, and upwards.

Other Buck of Juda. Sm. Buff. v. 390. pl. exciii.

Inhabits Juda in Africa.—This kind is likewife of a dwarfish fize, and, though joined with the preceding by Dr Gmelin, is here separated on account of the different figure of the horns.

8. Capricorn. - 7. Capra Capricornus. 1. n.

The horns are fhort, annulated at the fides, and turned forwards at the ends. Sm. Buff. vi. 363. D°. Fr. ed. xii. 146, t. 15.

Capricorn Goat. Penn. hift. of quad. n. 14. Z.

Its place, hiftory, and even figure, are uncertain.—The Count de Buffon only informs us that its skeleton was fent, under the name of Capricorne, to the royal cabinet, and that it agrees with the Common Goat in the form and proportions of its bones and teeth, but differs in the figure of the horns.

7 E4

9. Cabonas Goat. - Capra mutica.

Has no horns. Penn. hift. of quad. p. 57.

Inhabits the country of the Cabonas, to the north of the Cape of Good Hope.—This variety refembles the Common domestic Goat in every thing but the want of horns.

Goats * are found wild in many places, but principally on the mountains of Caucassus and Taurus; likewife on the hills of Persia, India, and Japan, also in Crete or Candia, and Africa, and the lower Alpine mountains of Europe. They refemble Deer in agility, and even in manners and appearance, but are much more subject to variety. The horns of the male, which are generally of a dark brown ash colour, are always larger, ftronger, and rougher than those of the females, which are either small and flender, or wanting. The neck and limbs are ftrongly made; the head is thick, and the fkull very hard; they have no lachrymal furrow below the eyes, nor any cellular cavity in the groins. The fur, in the wild state, is usually of a reddish grey or ash colour +, with a dusky list along the ridge of the back; the fur is generally harsh and rough; and the formerly esteemed Bezoar is frequently found. in their flomachs. The Domestic species, Sp. 2. is cultivated through all Europe, and in almost every part of the earth; it feeds on the twigs, leaves, and bark of various trees and shrubs, and on various kinds of moffes and lichens, and even eats hemlock, euphorbium, and other poisonous and medicinal plants without harm: It is fond of hilly places; generally lives to ten or twelve years of age; varies. in colour, being black, or white, or mottled; and is feldomer defititute of horns than the other domeftic quadrupeds. In the island of Juan Fernandez there are Goats, now wild, descended from tame ones left there by navigators; but there were none in America, till carried thither from Europe or Africa. The Goat is treacherous, petulant, quarrelfome, lascivious, very active, and an ex-

S f 2.

^{*} This paragraph relates to all the species or varities which have gone before. T. † This refers to the Wild Goat, No. 706 .- T.

716

cellent leaper; the She-goat goes five months with young, and brings generally one, fometimes two, and very rarely three or four, at a birth; the male has a firong rank odour; they are very deftructive to the bark of trees; their hide is very tough, and makes excellent leather for feveral purpofes; their hair, though vaftly coarfer than the wool of fheep, is ufeful; and their milk, and the cheefe made from it, are much efteemed.

To. Ibex. -8. Capra Ibex. 2.

Has large horns, knobbed on their upper surfaces, and reclined backwards; the throat is bearded. Briff. reg. an. 64. n. 3. Erxleb. mam. 261. n. 2.

Capra alpina, with very long, almost triangular, horns, which are knobbed on their upper surfaces, and much bent backwards. Girtanner, in the Lichtenberg magazine, iv. 2. p. 30.—Ibex alpium sibiricarum. Pall. sp. 200l. xi. 31. t. 3. and 5. f. 4.—Ibex. Plin. hist. nat. viii. c. 53. Gesn. quad. 331. 1099. Aldrov. bis. 730. f. p. 732. Jonst. quad. 75. t. 25. 28. Charlet. exerc. 10. Wagn. helvet. 176. Raj. quad. 77. Klein, quad. 16.—Hircus serus. Belon, obs. 20.—Bouc sauvage. Gaston de foix. 99.—Capricorne. Munster, cosmogr. 381.—Bouquetin, Bouc estain, Boucstein, Rock goat, or Wild goat. Sm. Bust. vi. 363. pl. clxxxvii. Zimmerman. 114.—Stein bock. Gesn. thierb. 148. Knorr, delic. ii. t. K. 5. f. 2. Kram. austr. 321. Ridinger, klein. thier. n. 71.—Ibex. Penn. hist. of quad. n. 13. Br. muss. Ashm. muss. Lev. muss.

Inhabits the Kamtschatkan, Siberian, Arabian, Cretan, Italian, Apennine, German, Swifs, and Tirol Alps, chiefly in the most precipitous and inaccessible places.—This animal is exceedingly active, very fwift, and leaps with aftonishing agility and dexterity in the most dangerous rocky places of the mountains; it is larger than the Wild Goat, having a fhort, thick, and strong body, with strong yet handsome legs, and very short hoofs: the head is short, with a thick compressed muzzle; the horns of the male are very large, of a blackish grey or ash colour, sometimes three feet long, and weighing from eight to ten pounds; they are rounded on the under furface, much knobbed on the upper furface, furnished with projecting longitudinal ridges, and considerably more arched than those of the Wild Goat; the horns of the female have fewer knobs, are smaller than those of the male; and refemble the horns of the Common She-goat; the male is furnished with a dusky beard; the general colour of the hair, which is long, is a deep brown, mixed with fome hoary, with a blackifh lift along the back; the belly is of a tawny white colour; the knees are white, with a large black fpot above, and another below each; the tail is fliort, black on its upper furface and at the point, and naked underneath: In young animals the fur is of a dirty grey colour; and the females are a good deal finaller than the males. The Ibex lives much among the fnows and glaciers of the highest mountains, is exceedingly wild and difficultly shot, the chace being very hazardous on account of the nature of their retreats, and being very ftrong, they frequently tumble the huntiman over the precipices. In the feverest weather of winter they fometimes descend a little way in quest of food. During the rutting feason the males bray very loud; the females retire to the fide of some small stream to bring forth, and have one, or at most two, at a birth. The Ibex is named Tau-tokke, or Mountain Goat, by the Tartars; the flesh is much esteemed, and the skin is very thin. Dr Gmelin is uncertain whether the Ibex found in Siberia be the fame, or a distinct species.

11. Caucasan Goat.—9. Capra caucasica. 3.

The horns are slightly triangular, and knobbed on their anterior surface, and are arch-

ed backwards, considerably divaricating, with their extremities turned inwards. Guldenstedt, act. Petrop. 1779, ii. 273. t. xvi. xvii.

Inhabits the bare, schistic, rocky, summits of mount Caucasus, near the origin of the Terek and Cuban rivers, and in the districts named Cacketia and Offetino.—The horns of the male are of a dirty blackish colour, and much longer than those of the Common Goat; those of the females are of a brownish ash colour, and much smaller: The upper parts of the body are of a bright brownish grey colour, with a narrow dark brown list along the back, the under parts are whitish, and the limbs are black; the hair is harsh, somewhat stiff, ash coloured at the roots, and is intermixed with an ash coloured wool. This animal is about the size of the Common Goat, with which, however, it will not breed, and is rather shorter and broader in its general form.

XXXIX. SHEEP.-38. OVIS. 31.

Has hollow, wrinkled, persistent horns, which are turned backwards and outwards into a circular or spiral form generally at the sides of the head. The lower jaw has eight cutting teeth; the upper jaw none; and no tusks in either.

This is perhaps the most useful of all quadrupeds to mankind, in a civilized state, as it supplies excellent food and warm clothing, and its wool, in some countries, is an astonishing source of industry and wealth. Sheep are naturally harmless and timid, and are greatly less active, either in running or leaping, than Goats; they prefer dry open plains, and grassy or heathy hills, but avoid rocky places, and do not agree with forests or wet soils; they sight by butting against each other with their horns, and threaten by stamping on the ground with their feet; they drink little, are subject to a disease named the rot, to worms in the liver, and to vertigo: The semale goes about sive months with young, and brings commonly one, often two when in good pasture, and sometimes, though rarely, three young ones at a birth. The male is named Ram or Tup, when castrated Wedder, the semale Ewe, the young ones Tamb; and many other names are employed by the shepherds for distinguishing particular ages, as Hogs, Dinmonds, Gimmers, &c. which vary in different districts.

I. Common Sheep.—1. Ovis Aries. 1.

Has the horns twisted outwards into a compressed spiral or screw. Faun. Succ. 45. Amoen. ac. iv. 169.

Aries laniger. Briff. regn. an. 74. n. 1.—Ovis domestica. Sloan, jam. ii. 328. Raj. quad. 73.—Common Sheep. Penn. hist. of quad. n. 11. A.—Пеоватов. Arist. hist. an. v. c. 11. vi. c. 19. viii. c. 13. ix. c. 4. Aelian. an. vii. c. 27.—Pecus, Aries, Ovis, Vervex, Agnus. Plin. hist. nat. viii. c. 47. 48. Gesn. quad. 872. 912. 925. 927. Aldrov. bisulc. 370. Jonst. quad. 54. t. 22. Charlet. exerc. 8. Sibbald, Scot. an. 8. Rzaczinsk. polon. 242. Swenks. ther. 56. 60.—Schaaf, Wedder, Hammel, Lamb. Gesn. thierb. 320. 321. 327. 329. Zimmerman. 112.

Sheep are cultivated all over the world, for the fake of their flesh, milk, and cheese, as food, and for their wool, of which a warm clothing is manufactured; it is perhaps the most stupid, weakest,

719

and most helples of all quadrupeds; it delights most in dry places which are exposed to the sun, and is fond of falt, or of plants which grow in falt marshes; its voice is named bleating: It chiefly feeds on the grass named Festuca ovina, and the Bursa pastoris, or Shepherd's purse, and drinks little; it is injured by eating the Pruna spinosa, Equisetum, Ranunculus, Flammula, Anthericum offisragum, Kalmia, Myosotis palustris, and Anemone nemorosa; it is insested by the Hippobosca ovina, Pediculus ovis, Oestrum ovis, Acarus ricinus, and Fasciola hepatica; it is likewise subject to a vertigo, occasioned by hydatids in the brain, to disorders of the liver, consumption, jaundice, dropsy, scab, and a kind of small-pox. Sheep attain their full size in two years, and seldom reach sourteen years of age; they change their teeth with age; are very fearful, and, when threatened, stamp on the ground with their hoofs, voiding their urine at the same time, and defend themselves by butting with their horns: One Ram is sufficient for forty or sifty Ewes; the semales go twenty three weeks with young, and bring one or two Lambs, seldom three, at a birth.

Of this species, the following varieties are distinctly marked in authors, besides many, almost endless, cultivated varieties, which differ from each other by such insensible gradations as to baffle all attempts at scientific description.

717 α. Hornless Sheep.—1. α. O. Aries anglica.

Has no horns; the tail and fcrotum hang down as low as the fecond joint of the hindlegs, and the wool is fine.

Ovis Anglicana. Amoen. ac. iv. 174.—Hornlefs Sheep. Penn. hift. of quad. n. 11. C. Sm. Buff. iii. 472. note.

This kind is common in most parts of Britain; those of Lincolnshire are the largest, and very small breeds are found in Wales and in Shetland; the White-faced and Fine-wooled Sheep of this island have generally either no horns or very small ones. The length of tail mentioned in the character is by no means universal, as a great many of our hornless breeds have very short tails.

β. Dwarf Sheep. -O. Aries nana.

Has no horns, is of a very small size, and has a turned up nose.

Dunky, or Dwarf Sheep. Bewick, hift. of quad. 60. and fig.

This variety is found in Lincolnshire; but the individual engraven by Mr Bewick came from some foreign place, we are not told whence; the wool forms a kind of ruff round its face, the under jaw is much protruded, leaving the fore-teeth exposed, the nose is much crooked upwards, the fore-head is very high and projecting, and the ears are small and erect; perhaps it may only be an accidental variety.

y. Rustic Sheep .- I. β. O. Aries rustica.

Is horned; the tail is short, and the wool is short and rather coarse.

Ovis rustica. Amoen. ac. iv. 174. Pall. sp. zool. xi. 61.—Ovis brachyura. Pall. sp. zool. xi. 59.—Black-faced Sheep. Bewick, quad. 52. and sig.

This is the most common breed of Sheep all over Europe, especially in the northern parts; the wool is shorter, coarser, and less curled than on the Hornless breed; the horns are generally large, wrinkled,

PECORA.

wrinkled, turned backwards into a compressed, spiral, screw-like twist, which comes down to the sides of the head, taking feveral turns, and becoming large on old Rams; they are angular, having longitudinal ridges, and the ends are finoothed, and turned outwards; fometimes they are wanting, and the females have always much fmaller and lefs twifted horns than the males; the eyes are ufually bluish, and have a confiderable wildness, with an oblong pupil, and having a deep gutter before the inner canthus or corner, into which a glutinous matter is fecreted; the tail is mostly round, and fhorter than in the former variety; the colour of the fleece is mostly white, fometimes black, dark brown, or spotted, and the face is almost always covered with short hair of a black, dark brown, or grey colour. The mutton of this kind is much efteemed, but the wool is comparatively of little value, ferving only for coarse manufactures; they are very agile, and exceedingly shy. This breed is found in greatest perfection on the hills of Tweeddale in Scotland.

720

721

722

J. Spanish Sheep. - I. y. O. Aries hispanica.

The horns are twisted into a spiral which is lengthened outwards; the wool is very fine and plentiful.

Ovis hifpanica. Amoen. ac. iv. 174.

This is the common sheep of Spain, so famous for the sineness of the wool, that even the British woollen manufactures require a very confiderable annual fupply, to mix with home wool, for the finest broad cloths, and other fine fabrics.

e. Many-horned Sheep. - 1. S. O. Aries polycerata.

Has more than two horns. Amoen. ac. iv. 174.

Ovis gotlandica. Pall. sp. zool. xi. t. 4. f. 1. c. f. 2. b. t. 3. f. 5.—Ovis fexcornis, et Ovis tricornis. Aldrov. bifulc. 397.—Iceland Sheep. Sm. Buff. iii. 484. vi. t. clxx. clxxi. Penn. hift. of quad. n. 11. D. pl. 3. f. 3.—Many horned Sheep. Do. n. 11. E. t. 3. f. 2. Zimmerman. 127. 128. Grew, rar. t. 2. Lev. mus. Weir's mus.

The many-horned sheep are common in Iceland, and other parts of the north, in Siberia, and among the Tartars near the river Jenisei, and other parts of Tartary.—These can hardly be faid to form a diffinct variety, for in the fame flocks, in which individual rams with three, four, five, or even fix horns are found, others have only the ufual pair; in general one, when there are three, or two horns, when there are four or more, stand erect, and the outer horns have the common femilunar or fpiral turn: On one of the varieties of this kind, engraved in Mr Pennant's Hiftory of Quadrupeds, the lower part and fides of the neck were covered with long straight yellowish hairs, fourteen inches in length: This animal was brought from Spain, was very mischievous, and fond of butting; but its country is uncertain.

ζ. African Sheep. - I. ε. O. Aries africana.

Is clothed with short hair instead of wool.

Ovis africana. Amoen. ac. iv. 173. Raj. quad. 75. Sloan, jam. ii. 328.—Aries pilofus. Briff. regn. an. 76. n. 4.—Ovis aethiopica. Charlet. exerc. 9.

Inhabits Africa.

 $7^{2}5$

723 η. Wattled Sheep.—1. ζ. O. Aries guineensis.

Has hairy wattles on the throat, pendant ears, and a prominence on the back part of the head. Syst. nat. ed. xii. 98. n. 2.

Ovis guineensis. Briss. regn. an. 77. n. 5.—Aries guineensis, s. angolensis. Marcgr. Bras. 234. Jonst. quad. t. 46. Klein, quad. 14. Raj. quad. 75. Sloan. jam. 328.—Adim-mayan. Marmol, afr. i. 59. Leo Afr. 341.—Moutons de guinee. Adans. Seneg. 37. Des March. It. i. 129.—African, Indian, Senegal, Guinea, or Angola Sheep. Sm. Buff. vi. 212. pl. clxxiii. clxxiv. clxxv.—Sahara Sheep. Shaw, It. 241.—Carnero, or Bell-wedder. Della Valle, trav. 91.—African Sheep. Penn. hist. of quad. n. 11. F. Zimmerman. 131.

This breed is found in many of the warm parts of the earth, as in Guinea, the great African defert of Sahara, or Zara, and other parts of Africa, in India, and has been transported into South America.—It is very tall, long legged, and meagre, with short horns turned backwards and downwards close to the side of the head, pendant ears, long small tails, wattles on the neck, long arched muzzles, and is covered with hair instead of wool; is sometimes sound as tall as a middle sized Ass. The sless is reckoned very bad,

8. Broad-tailed Sheep.—1. n. O. Aries laticaudata.

Has long, and very broad tails. Penn. hift. of quad. n. 11. G. Arift. hift. an. viii. c. 28.

Tunis Sheep. Sm. Buff. vi. pl. clxxvi.—Barbary Wedder. Do. pl. clxxii.

This kind is common in Syria, Barbary, and Ethiopia, in Thibet, and among the Tartars.—The tails are often fo long as to trail on the ground, and to require a piece of board, with wheels, to keep them from galling; they are fometimes pointed at the end, but mostly square or rounded, and are reckoned a great delicacy, being composed of a substance between fat and marrow, and sometimes weigh sifty pounds. Those of Thibet produce the very sine wool of which shawls are manufactured; but their tails, though broad, are not nearly so long as the others...

1. Fat-rumped Sheep. - O. Aries steatopyga.

Has two large, naked, hemispherical prominences on the buttocks, and no tail; with pendant ears. Penn. hift. of quad. n. 11. H. pl. iv. f. 1.

Ovis steatopyga, Aries kirgisicus. Pall. sp. zool. 63. t. 4. f. 1. 2. a. b.

This fingular breed is common among the Tartars from the Volga to the Irtish, and to the Altaic mountains.—They have curled horns like the Common Sheep, pendulous ears, arched noses, and wattles on the neck; the wool is long and coarse; the head black, and the ears white and edged with black; they grow to a large size, sometimes weighing two hundred pounds; are usually white, but sometimes black, reddish, or spotted; the great prominences on the buttocks are entirely composed of fat.

These two kinds of sheep, the Broad-tailed, and Flat-rumped varieties, are not diffinguished by Dr Gmelin, in his edition of the Systema Naturae, though they are evidently as widely different at least as some of the other varieties. He says, that, in general, they are white, sometimes black, brown, or spotted, and very seldom grey, or hoary; and that they are cultivated among the various wandering

727

728

wandering hordes of Tartars, particularly among the Kirgisians, and are likewise found over the whole East, in Persia, China, Syria, Arabia, and Egypt; he adds, that instead of a tail, of which only the coccyx is to be found, they are furnished with a large and thick bundle of fat, which sometimes exceeds thirty pounds in weight. He quotes the following authors and synonimes, without any distinction, of which all seem to refer to the broad-tailed variety except Pallas, who evidently means by Ovis steatopyga, the Fat-rumped Sheep with hardly any tail, the fat being placed in two large bunches on the buttocks, while in the Broad-tailed Sheep the vast mass of fat is confined to the tail itself.—T.

Ovis platyura arabica. Ruffel, Alep. 51. t. 52.—O15 αξαβιος. Aelian, an. x. c. 4.—Ovis arabiae. Aldrov. bif. 404. f. p. 405.—Ovis turcica. Charlet. exerc. 9.—Ovis cauda obefa. Ludolf. aeth. i. c. 10. n. 14.—Ovis laticauda. Raj. quad. 74. J. G. Gmelin, nov. com. Petrop. v. 343. t. 8. Briff. regn. an. 75. n. 2.—Aries, f. Ovis πλατοκέξως orientalis. Klein, quad. 74.—Ovis laticauda, platyceros, f. arabica. Amoen. ac. iv. 173.—Broad-tailed Sheep. Shaw, It. 241.—Arabifches fehaaf. Gefn. thierb. 326.—Hiefege fehaafe. Ofb. oftind. 188.—Schaaf deren Schwaentz gar feifft. Rawolf. It. iii. 26.—Broad-tailed Sheep. Penn. hift. of quad. n. 11. G.—Fat-rumped Sheep. D°. n. 11. H.—Ovis fteatopyga, Aries kirgificus. Pall. spic. 2001. xi. 63. t. 4. f. 1. 2. a. b.

κ. Bucharian Sheep.—1. θ. O. Aries bucharica.

Has large pendulous ears, and a long, flat, broad tail, with small fatty bunches on the hips. Pall sp. zool. xi. 78.

This kind is common among the flocks of the Bucharian Tartars, and is found in Persia, Syria, Palestine, and several parts of Africa.—In Dr Gmelin's opinion, it is produced from an intermixture of the Broad-tailed with the Long-tailed varieties: The tail is oblong, flattened, fat, covered with wool, naked beneath, and ends in a point; the fleece is exceedingly fine, and is of different colours, as pure white, black, hoary or grey, and of a filvery whiteness. Mr Pennant probably means this kind, when, speaking of the Broad-tailed Sheep, he says, that some have pointed tails.

λ. Long-tailed Sheep-1. ι. O. Aries longicauda.

Has a very long tail, and is clothed with wool. Briff. regn. an. 76. n. 3.

Ovis dolichura, f. ovis tfcherkeffica. Pall. fp. 200l. xi. 60.—Ovis alterum genus. Raj. quad. 74.—Ovis arabica. Jonft. quad. t. 23.—Schaaffe. Olear. It. 567.—Ein ander arabifche fchaaff. Gefn. thierb. 326.

Of this kind Dr Gmelin gives no account, farther than what is contained in the character.

μ. Cape Sheep.—1. n. O. Aries capensis.

Has large pendulous ears, and a large broad tail. Penn. hift. of quad. pl. iv. f. 2.

Neither Mr Pennant, who gives an engraving of this kind, nor Dr Gmelin, who quotes it from him, give any account of this animal, which is not even contained in the text of Mr Pennant's excellent work. By the figure, the head is long, and the muzzle thick and a little arched; the horns are fhort, and bent back close behind the ears, which are long, broad, and naked; the body and neck Vol. I.

73I

are covered with long flowing hair, or wool not curled; the legs are black and naked; and the tail is fo enveloped in the long coat as not to be apparent.

729 v. Bearded Sheep. - O. Aries barbata.

Has a long divided beard hanging down from the lower part of the cheeks and upper jaw. Penn. hift. of quad. n. 12.

Siberian Goat. Penn. fynopf. of quad. n. 11.—Tragelaphus, or Hirco-cervus. Caii, opufc. 59.—Tragelaphus. Plin. viii. c. 33.

Inhabits, probably, Barbary and Mauritania.—The fkin, from which Mr Pennant drew up his defcription of this animal, was purchased in Holland, and was said to have come from the East Indies. The horns were very thick and close at the bases, bending backwards, diverging and turned outwards, about two feet long, eleven inches circumference at the base, and nineteen inches distant at the tips: The general colour was a pale rusty brown; the upper part of the neck had a kind of erected mane; the under part of the neck and shoulders were covered with long coarse flowing hairs, about fourteen inches long; the hair on the rest of the body was short, and intermixed at their roots with a short fleece of wool. Dr Gmelin quotes this as a synonime of the Capra Ammon, which has no beard on the cheeks.

¿. Morvant.—O. Aries jubata.

Has a short mane on the neck, and a long beard on the fore part of the breast. Sm. Buff. vi. 227. pl. clxxvii.

This animal was exhibited at Paris under the name of Chinese Morvant. The horns have only a half turn in the same direction with those of the Common Sheep; the beard on the lower part of the neck is coarse, about ten inches long, and of a mixed red and grey colour; the mane extends to the middle of the back, and is of the same colour with the beard, but mixed with red and black hairs; and the two are joined all round the neck and shoulders with longish red grey hairs; the rest of the body is covered with wool, of a bright yellow colour, a little curled and soft at the ends, but straight and coarse at the roots; the legs are deep red; the tail is yellow and white, and is furnished with long coarse hairs like that of a cow.

2. Cretan Sheep. - 3. Ovis Strepsiceros. 3.

Has long, erect, spirally screwed horns, furnished with longitudinal ridges.

Hircus laniger, or Capra cretensis. Briss. regn. an. 73. n. 15.—015 &21901. Oppian, cyneg. ii. 376.—Strepsiceros. Plin. hist. nat. xi. c. 37. Sm. Buss. vi. 211.—Aries cretensis, s. Strepsiceros. Belon. obs. 20. s. p. 21. Aldrov. bisulc. 406. f. p. 407. Raj. quad. 75. Jonst. quad. t. 45. Besch. der berl. naturs. iv. 624: t. 20. Klein, quad. 14.—Wilde Straubengeyss. Gesn. thierb. 151. f. p. 152.—Wallachian Sheep. Sm. Buss. iii. 284. pl. xv. 2d. xv. 3d.—Cretan Sheep. Penn. hist. of quad. n. 11. B. pl. iii. f. 1. Zimmerman. 131.

Inhabits Candia, and the other Grecian islands, and is common in Hungary and Austria.—The horns of the male are twisted quite erect into a spiral like the worm of a screw; those of the female have the screw drawn out so as to resemble rather a loosely twisted rope, and the ends diverge considerably;

733

fiderably; in both the wool is long, pendant, and hairy. Dr Gmelin expresses a doubt whether this may not be the common stock of all the varieties of Sheep. This is almost the only kind of Sheep brought to market in Austria, where it is named Zackl.

3. Argali.-2. Ovis Ammon. 2.

The horns are large, femicircularly arched backwards and divergent, wrinkled on their upper furface, and flattish on the under side; and the neck has two pendant hairy wattles. Erxleb. mam. 250. n. 2.

Capra Ammon. Syst. nat. ed. xii. 97. n. 12.—Hircus, s. Capra orientalis. Brist. regn. an. 71. n. 12.—Musmon, et Ophion. Plin. hist. nat. viii. c. 49. xxviii. c. 9. xxx. c. 15.—Musmon, s. Musmon. Gesn. quad. 934. Zimmerman. 114. 546.—Musmon, et Tragelaphus Belonii. Raj. quad. 75. 82.—Tragelaphus, s. Muslon. Klein, quad. 20.—Rupicapra cornibus arietinis. J. G. Gmelin, nov. com. Petrop. iv. 388. et summ. 53. t. 8. b. s. 2. 3.—Ovis fera sibirica, s. Argali vulgo dicta. Pall. sp. zool. xi. 3. t. 1. 2.—Mouslon. Sm. Bust. vi. 205. pl. clix.—Stepnie Baranni. J. G. Gmelin, It. sib. i. 368.—Kameuni Baranni, oder Musmons. Steller, Camtschatc. 127.—Das wilde Schaaf, et der Weissars der Alten. Gesn. thierb. 154. 155.—Orientalisches Schaaf. S. G. Gmelin, It. iii. 486. t. 55.—Wild Sheep. Penn. hist. of quad. n. 11 H *.—Siberian Chamois. Brist. quad. 42.

Inhabits, in finall flocks, the rocky and defert places, exposed to the heat of the fun, on the Alpine region in the center of Afia, in Kamtfchatka, the Kurili islands, probably on the west side of North America, and in California; and on the highest mountains of Barbary, Sardinia, Corsica, and Greece.—This animal is about the fize of a finall Deer, and has much the appearance of being a wild Sheep: It is exceffively wild, fwift, and active, and fights violently with its horns; it acquires its full growth in two years, and feldom lives more than fourteen; the female brings one or two lambs in the month of March: The general colour in fummer is a brownish ash, mixed with grey on the upper parts of the body, and a whitish ash on the lower parts; in winter the former changes to a rufty grey, and the latter to a whitish grey; in winter the hair is about an inch and a half long, which falls off in fpring, and the fummer coat is very short; the tail is very short, of a white colour, and brownish at the end; the ears are erect and sharp pointed; the eyes are large, and generally of a brown or blue colour; the horns, which come to their full fize in three years, are whitish, angular, wrinkled transversely, large, close at their bases, and placed on the top of the head, then rife at first nearly upright, are reflected backwards, divergent, and turned downwards and outwards at the ends; those of the female are smaller, and more hooked, but are sometimes entirely. wanting; the hind legs are rather longer than the fore legs, which fits the animal rather for running up hill than on plain ground: The horns of the old Rams are faid to grow to fuch an enormous fize as to weigh fifteen pounds each, and to measure two Russian yards in length. The slesh and fat are esteemed great delicacies in Siberia.

β. Corsican Argali. - Ovis Ammon europaea.

Resembles the former, but is of a brown colour tinged with tawny on the upper parts, with a white mark on each side pointing to the belly. Penn. hist. of quad. n. 11. H *. 2.

I have introduced this variety on the authority of Mr Pennant, who diftinguishes between the Argali of Corsica and the Siberian, though the difference seems chiefly in colour; one specimen,

331

brought from that island by the famous Paoli, differed from the above in colour, having a large white fpot on the front of the neck, and being black on the shoulders. In Corsica this animal is named Musro. It is probable that the Argali once inhabited Britain, as Boethius mentions Sheep in St Kilda larger than a He-goat, with horns as big as those of an Ox.

4. Pudu.-4. Ovis Pudu. 4.

Has round, fmooth, divergent horns.

Capra Pudu. Molina, hift. nat. Chil. 273.

Inhabits the Cordelieras in South America.—This animal is about the fize of a half year old kid, and lives in flocks on the mountains, from whence it descends into the southern plains of Chili when the hills are covered with snow; at that season it is easily caught, and very readily becomes tame; it resembles a Goat in appearance, but the horns are small, and are turned round outwards like those of Sheep, and it has no beard; the semale has no horns; the general colour is dusky. This is the only animal of the genus which seems indigenous to America, though even this instance is uncertain; for neither is the animal fully known to naturalists, nor are we completely assured that it may not be the progeny of Sheep originally transported thither from the Old World.

XL. O X.-39. BOS. 32.

Has hollow perfishent horns, which are smooth, and bent outwards and forwards in a semilunar form. There are eight cutting teeth in the lower jaw, none in the upper, and no tusks.

The animals of this genus are extremely useful to mankind, serving as beafts of draught and burthen, and furnishing excellent beef, milk, cheefe, butter, curds, and whey, as food; their skins make excellent leather for many purposes; the fat is used for making soap and candles; the horns are made into a variety of useful utensils; even the hoofs, bones, and hair, are converted to use. They principally delight in flat pastures, avoiding woods and steep hills; they sight by pushing with their horns; the voice is named lowing, and bellowing: The male is called Bull, when emasculated Ox; the female Cow, when spayed Heiser; the young Calf; and, like the Sheep, it has various appellations for different ages and circumstances, as Steir, Stot, Runt, Keillie, Stirk, Seg, and many others, which vary in different districts. In the same manner as with the two former genera, it is difficult to arrange this genus with propriety, the proper limits between species and variety admitting of confiderable doubt.

1. Common Ox. -1. Bos Taurus. 1.

Has round horns, which are curved outwards; and a pendent dewlap. Fam. Suec. 46.

Inhabits almost every part of the world, either in a wild or domesticated state.—This species is subject to great variety in form, colour, and figure of the horns; the following subdivision and enumeration of the varieties, is regulated by that of Dr Gmelin, with some slight alterations on the automatical states.

thority

736

737

thority of Mr Pennant; though fome of the kinds confidered only as varieties feem fully as specifically different from the rest as others which are here placed as distinct species, and even some of these last have very near resemblances either to each other, or to one or other of the varieties of this sirest species.

A. Wild Ox. - 1. α. B. Taurus ferus. α.

α. Urus. - I. α. a. B. Taurus Urus.

Has thick short horns which are reslected forwards, and a curly fore-head. Briss. regu. an. 80. n. 3.

Bos ferus. Plin. hift. nat. viii. c. 15.—Urus. Caef. bell. gal. vi. c. 28. Gefn. quad. 157. Aldrov. bif. 347. f. p. 348. Jonst. quad. 50. t. 20. Raj. quad. 70. Klein, quad. 11. Bell, trav. i. 221. Rzacz. pol. 228. Bewick, hift. of quad. 38. and fig.—Bos filvestris. Charlet. exerc. 8.—Auerochs. Gefn. thierb. 299. Sm. Buff. vi. 150. Ridinger, wilde th. t. 37. Brit. 2001. i. 15. Penn. hift. of quad. n. 6.

Inhabits the marfhy woods of Poland, Pruffia, and Lithuania.—This is probably the ftock of all the European domestic breeds; and though Dr Gmelin quotes Sibbald under the third variety, Bison, as describing the wild cattle of Scotland with a long mane, there is reason to suppose that circumstance a mistake, as the remains of that breed, still preserved in several parks in England, have no mane, and resemble the common breed very much. These are invariably white, with white horns, black noses, and red, black, or brown ears; they are exceedingly wild, and rather dangerous, especially the Bulls in rutting time, and the semales when suckling their calves. Bewick, hist. of quad. 34. and sig.

β. Bonasus. - 1. a. b. B. Taurus Bonasus.

The horns are reflected backwards, and the neck is furnished with a long mane. Briff, regn. an. 84. Syst. nat. ed. xii. 99.

Bοναστος. Arift. hift. an ii. c. 5. 7. xi. c. 71.—Μονωψ. Aelian. an. vii. c. 3.—Bonafus. Plin. hift. nat. viii. c. 15. Gefn. quad. 145. Aldrov. bif. 358. f. p. 361. Jonft. quad. 51. t. 18. 19. Charlet. exerc. S. Raj. quad. 71. Sm. Buff. vi. 150.

y. Bison. - 1. a. c. B. Taurus Bison.

The horns are reflected forwards, the back is hunched, and the neck has a long mane. Syst. nat. ed. xii. 99. n. 3.

Bos Bifon albus, having the horns reflected forwards, and the neck clothed with a very long mane. Briff. regn. an. 82. n. 5.—Bos Bifon, having the horns reflected forwards, the back hunched, the neck furnished with a long mane, and the throat with a long beard. Briff. regn. an. 82. n. 6.—Bifon. Coppian. cyneg. ii. 159.—Bifon. Plin. hift. nat. viii. c. 15. Gefn. quad. 143. Aldrov. bif. 353. 357. f. p. 355. 356. Jonft. quad. 51. t. 16. 17. Charlet. exerc. 8. Sibbald. Scot. 7. Raj. quad. 71. Rzacz. polon. 214. Sm. Buff. vi. 150.—Wyfent. Gefn. thierb. 296.

The Bonafus and Bison, though considered as distinct by Dr Gmelin, are supposed by the Count de Busson to be the same animal, and to be the original stock of all the European Oxen; consequently

739

quently it must be the same with the Urus, and the various descriptions of authors must be owing to accidental variations from age, climate, and food. They must however be carefully distinguished from the American Buffalo, afterwards described, which is called Bison by Buffon.

- B. Domestic Ox.—1. B. B. Taurus domesticus.
- S. European Ox.—1. B. g. B. Taurus europaeus.

Has, in general, round, fmooth horns, which are distant at their bases and are reslected forwards; and neither hump nor mane.

Bos, Taurus, Vacca, Vitulus. Plin. hift. nat. viii. c. 45. 46. Gefn. quad. 24. 25. 103. 124. Schwenkf. ther. 63. 65. 70. Aldrov. bifulc. 13. f. p. 36. Jonft. quad. 13. t. 15. Wagn. helv. 167. Sibbald. Scot. 7. Rzacz. polon. 37. Sloan, jam. ii. 327.—Bos domefticus. Jonft. quad. 36. t. 14. Charlet. exerc. 8. Raj. quad. 70. Muf. ad. fr. i. 12. Briff. regn. an. 78. n. 1. Klein, quad. 10.—European Ox. White, in trans. of phil. and lit. foc. Manchest. i. c. 27. Penn. hist. of quad. n. 6. G. Sm. Buff. iii. 423. pl. xiii. Brit. zool. i. 15.

The largest cattle of this kind are found in Poland, Holstein, Jutland, Podolia, and Ukrain. much finaller breed is produced, often without horns, in the Highlands of Scotland, Wales, Iceland, and other northern and mountainous countries.—This domestic breed is so variable in appearance, and in the form of the horns, as to preclude the possibility of enumeration in a systematic work; in fome the horns are wanting, in fome large, in others fmall, fometimes extended directly outwards, or reflected backwards, upwards, forwards or downwards: In general the Bulls are very flupid, obftinate, vicious, and quarrelfome, and when angry, either by being teized or in rutting time, they attack mankind, or each other, violently with their horns, first showing their rage by horrible bellowings, and by tearing up the ground with their feet and horns. The Bulls have a furly afpect, a firong and curly fore-head, and a very ftern menacing appearance; the Cows and Oxen have a more mild and stupid look, and are less dangerous, though the Cow is apt to but when she has young: They are exceedingly useful as beafts of burthen, and for ploughing the ground; their flesh, milk, cheefe, butter, and fat, are of almost indispensible use to mankind; even their dung is a most excellent manure, and their horns are converted into valuable articles of manufacture. They are more fubject to murrain than the other domestic cattle, and are much infested by the Gad-sly, Tabanus, Canopis calcitrans, and by Lice; they are fond of warm, open, flat, and rich paftures, and are apt to be poisoned by Hemlock, Aconite, and Anemone. They feldom exceed sourteen or fifteen years. of age, and in general are fattened for the butchery long before that period. The female goes nine months with young, and brings commonly one Calf, feldom two, at a time.

The following animals are confidered by Dr Gmelin as varieties of the domeftic breed, though many of them have such remarkable differences as would constitute, in other genera, sufficient marks for specific distinction.

ε. Indian Ox.—1. β. a. B. Taurus indicus major.

Has short horns, bending back close to the neck, with a large fatty lump on the shoulders: Of a large size and reddish colour. Penn. hist. of quad. n. 6. A. pl. i. sig. inf.

Indian Ox. Sm. Buff. vi. 178.

741

742

743

744

745

Inhabits India, Africa, and Madagascar.—The lump is composed entirely of fat, and is esteemed a great delicacy; this breed will intermix with the common kind, but in a few generations the lump disappears; it grows to a vast size, the neck is prodigiously thick, and the legs rather short in proportion to the size and length of the body.

ζ. Zebu.—I. β. b. B. Taurus indicus minor.

Has short, erect horns, which are turned a little forwards: Of a very small size, with a lump on the shoulders. Penn. hist. of quad. n. 6. B. pl. i. sig. sup. Syst. nat. ed. xii. 99. n. 6.

Zebu. Sm. Buff. vi. 164. 240. pl. clxxx.—Bos fcythicus, with a hunch on the back. Charlet. exerc. 8.—Little Indian Buffalo. Edw. av. 200. t. 200.

Inhabits India, Persia, and China.—This animal is the common beast of burthen in India, where it is likewise used to draw carriages, and is even used for riding.

n. Surat Ox.—B. Taurus indicus minimus.

Of a very diminutive fize. Penn. hist. of quad. p. 17.

Inhabits the country near Surat in India.—This breed is not larger than a great Dog, has a fierce look, and is used about Surat to draw children in small carts.

θ. Abyssinian Ox.—1. a. c. B. Taurus abessinicus.

Has the horns only adhering to the skin and hanging pendulous; the back is furnished with a hunch. Penn. hist. of quad. n. 6. C.

Abyssinian Ox. Lobbo, voy. 70. Flacourt, voy. 151. Sm. Buff. vi. 178.

Inhabits Abyffinia, Madagascar, and probably in other parts of Africa.

1. Boury .- 1. a. d. B. Taurus madagascariensis.

Of a large fize and white colour, with pendulous ears, and a hunched back. Penn. hift. of quad. n. 6. D.

Madagascar Ox. Flacourt, voy. 151.—Adel Ox. Purchas, pilgr. ii. 1106.

Inhabits Adel and Madagascar.

n. Tinian Ox.—1. a. e. B. Taurus tinianensis.

Of a white colour with black ears. Penn. hift. of quad. n. 6. E.

Inhabits the island of Tinian.

λ. Lant .- I. a. f. B. Taurus africanus.

Of a white colour, with elegant horns, slender legs, black hoofs, and of vast swiftness. Penn. hist. of quad. n. 6. F.

Inhabits Africa.—Is fwifter than most horses, and the hide is said to be impenetrable to a bullet. This is probably a species of Antelope.

747

z. Arnee. - Bos Arnee.

Has long erected femilunar horns, which are flattened and annularly wrinkled, with fmooth, round, approaching points. Edin. Col. muf. Weir's muf.

Inhabits India north from Bengal.—This animal is of vaft fize, and is hitherto nondefcript. A fkeleton of the head with the horns is in the Edinburgh College Mufeum; the defcription given of the living animal; by a British officer, who met with one in the woods in the country above Bengal, is, that it is about fourteen feet high, most probably estimating the distance from the ground to the tip of the horns, that it partakes of the form of the Horse, Bull, and Deer, and was very bold and daring; this last circumstance establishes its genus, as all the other horned animals of the ruminant or cloven footed tribe are shy and timid; and is confirmed by a Mogul painting in the possession of the late Mr Ross of Edinburgh, in which, among a vast variety of figures are two enormous Bulls, with horns exactly like those in the museum, and which seem at least eight feet high at the shoulder, if a man walking close by the side of one be taken as a scale. The engraving, which is an exact copy from the above mentioned painting, even without attempting to correct its erroneous drawing, will give a more accurate idea of the Arnee, by which name the animal is known to the natives of India, than can be conveyed in words. Except in the form of the horns, it resembles our common breed, and, by the painting, is of a black colour, quite smooth, and without hunch or mane.

3. American Bison .- 2. Bos americanus. 2.

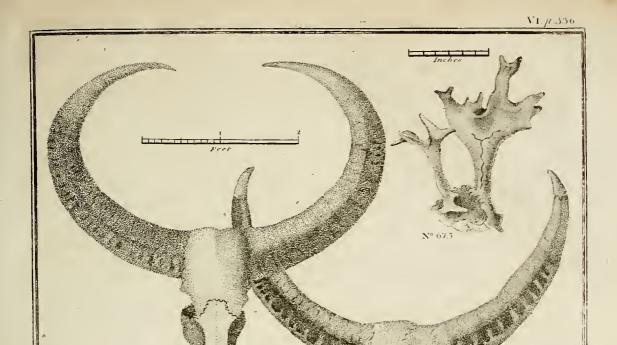
Has short, rounded, distant horns, pointing outwards; the neck, fore-head, breast; and chin, are clothed with long woolly hair, and the shoulders are highly hunched. Syst. nat. ed. xii. 99. n. 3. s.

Bos Bifon americanus. Briff. regn. an. 83. n. 7.—Taurus mexicanus. Hernand. mex. 587.—Taurus Quivirae. Fernand. an. 10.—Armenta. Laet, amer. 303. Nieremb. hift. nat. 181.—Taurus novae orbis. Nieremb. hift. nat. 182.—Florida Bifon. Raj. quad. 71. Klein, quad. 13.—Boeuf de Canada. Charlev. nouv. fr. iii. 131.—Boeuf fauvage. Du Pratz, louis. ii. 66.—American Bifon. Sm. Buff. vi. 198. pl. clxviii.—Buffelo. Lawfon, carol. 115. Brickn. n. amer. 107. Catefby, carol. app. 27. t. 20.—American Beeves. Dobbs, Hudfon's Bay. 41.—Wilde Ochfen. Kalm, It. ii. 350. 425. iii. 351.—American Ox. Penn. hift. of quad. n. 6. H.—Bifon. Penn. Arct. 2001. n. 1.

Inhabits Mexico and the interior parts of North America, as high as near Hudson's Bay.—Is found in great herds in the Savannas, is fond of marshy places, and lodges among reeds; is very fierce and dangerous, yet may be tamed when taken young. It is of vast size, weighing from sixteen hundred to near three thousand pounds; the fore parts of the body are excessively thick and strong, and are covered at all feasons with a long undulated sleece of a dull rust colour; the hinder parts are very slender and weak in proportion, being naked, wrinkly, and dusky in summer, but covered like the foreparts in winter; the shoulders are surmounted by a large sleshy hunch; the tail is about a foot long, mostly naked, and tusted at the end with black mairs. Mr Pennant considers this and the European Bison as of the same species.

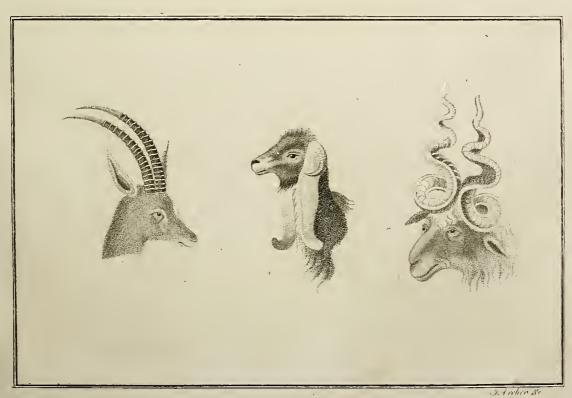
4. Musk Ox.—3. Bos moschatus. 3.

The horns, which are very thick, broad, and close at their bases, bend outwards close



Nº746

D? Weirs muf.



N?73I



to the head, then downwards and a little backwards, having the points rounded, and turning upwards and outwards. Penn. Arct. 2001. n. 2. pl. vii.

Musk Ox. Penn. hift. of quad. n. 9. pl. ii. f. 2. Dobbs, Hudson's Bay. 18. 25.—Boeuf musque. Jeremie, voy. iii. 314. Charl. nouv. fr. v. 194. Sm. Buff. vi. 191. Lev. mus. Edin. mus. Weir's mus.

Inhabits North America, from New Spain to the Icy Sea.—The Musk Ox lives in herds of twenty or thirty individuals, frequenting mostly the rocky and barren mountains; it runs nimbly, and is very active in climbing the rocks. In height this species is lower than a Deer, though much larger in the belly and size of the limbs; the horns of an old Bull are near two feet in circumference, and the same in length, and sometimes weigh thirty pounds each; those of the Cow have the same curvature with the Bulls, but are smaller and more distant at the bases. The whole body is covered with very long, sine, black hair, having a dusky mane, tinged with reddish, on the neck and back; under this outer coat is a sleece of exquisitely sine ash coloured wool; the shoulder is hunched; the legs are covered with smooth whitish hair; the hoofs are short, broad, and black; the tail is very short, and is covered and involved in the general long hairy coat; the ears are crest, sharp pointed, and dilated in the middle, being thickly covered with dusky hair, and marked with a white stripe. The slesh tastes very strong of musk, but is wholesome, and the heart is so strongly infected as hardly to be eatable. Some skulls of this species, with the horns, have been found in the mostly plains of Siberia near the mouth of the Oby; and one was seen by Fabricius that had sloated on the ice to Greenland, though he supposed it to belong to the Grunting Ox.

5. Grunting Ox.-4. Bos gruniens, 4.

The horns, which are short, rounded, slender, and sharp pointed, are distant at the bases, erect, and bent outwards; the hair on all parts of the body is very long and pendent; the tail is covered with very long, slowing, silky hairs.

Grunting Ox, with a tail like that of a horfe. I. G. Gmelin, nov. com. Petrop. v. 339. t. 7.—Bubalus, with a tail like that of a horfe. Pall. act. Petrop. i. part 2. p. 332.—Boeuf velu. Le Brun, voy. i. 120. t. 129.—Cow of Tartary. Sm. Buff. viii. 225.—Bubul. Bell, trav. i. 224.—Tangutif-cher Buffel. Pall. nord. Beytr. i. t. 1.—Grunting Ox. Penn. hift. of quad. n. 7.—Poephagus. Aelian, de an. xvi. c. 9.

Inhabits Tangut, Mongalia, and Thibet; and is cultivated, though with confiderable variety of fize and colour, in Siberia, China, Perfia, and India.—The fize of this animal is various; fome individuals must be very large, as the tail, which does not reach the ground, is fometimes fix feet long; the head is short, with a broad nose, thick hanging lips, and broad ears, which point downwards, and are befet with coarse bristles; the horns are distant, short, slender, and very sharp pointed, having a long curling tust of hair between; the hair on the middle of the fore-head is radiated; the space between the shoulders is much elevated; along the neck, and sometimes along the whole back, is a kind of white mane; the head and body are black; the hair on the belly, throat, and neck, is very long, while on the rest of the body it is like that of a Goat; the hoofs are large, and the spurious hoofs project considerably; the tail is broad, and is covered with long, slowing, glossy, filky hairs, sometimes white or silvery, and at other times black. The sless of this species.

A bezoar is frequently found in the stomachs of this species.

Vol. I.

749

337

The above description is taken from the wild breed, which is of tremenduous fierceness, insomuch that if wounded in the chase they turn furiously on the affailant, and if he does not escape they never cease tossing him with their horns till he is destroyed; even the domesticated breeds retain their fierceness, and are easily irritated, especially at the sight of any thing red; their anger is expressed by shaking their bodies, moving their tails, and by the menacing look of their eyes, and, if not guarded against, their attacks are so sudden and violent that they can hardly be avoided. This remarkable species or variety of Ox was first mentioned by Aelian among the ancients; they are afterwards taken notice of by Cosmos, Rubruquis, and Marco Paulo, which last says that they almost equal the Elephant in size: The domesticated varieties, to be taken notice of below, though employed for carriage and draught, are liable, like their original stock, to sudden passion, which obliges the inhabitants to cut off the sharp ends of their horns to render their attacks less formidable. The voice is a kind of grunting like that of a Hog, which is more frequently repeated by the Cows than the Bulls; they procreate with the common domestic breeds, and Dr Gmelin seems to doubt whether the Bustalo may not be derived from this species. The following varieties are mentioned by authors, besides the wild breed just described.

750 β. Ghainouk.—Bos gruniens Ghainouk.

This, though domesticated, resembles the wild breed in every thing, except that, like all cultivated cattle, it is subject to considerable variety in colour. Pennant.

751 y. Sarlyk.—Bos gruniens Sarlyk.

This is a degenerated race, but not described; perhaps it is the hybrid produce of the genuine breed with the common cattle of the country. Pennants

A. Hornless grunting Ox.—Bos gruniens ecornis.

Has no horns, but is furnished with an immense thickness of bone on the fore-head-

Has flat horns, which are first extended outwards, then turned upwards, and bent inwards at the ends.

Bοές 'αγξο', ἐν 'Αξαχωτοις. Arift. hift. an. ii. c. 1.—Bos indicus. Plin. hift. nat. viii. c. 45.—Bos Bubalus. Briff. regn. an. 81. n. 4.—Bubalus. Gefn. quad. 139. Jonft. quad. t. 20. Raj. quad. 72.—Buffelus. Aldrov. bif. 365. f. p. 366. Jonft. quad. 53. Charlet. exerc. 8. Klein, quad. 10.—Buffalus. Pall. nov. com. Petrop. xiii. 460. t. 11. 12.—Taurelephas. Ludolf, aethiop. i. c. 10. n. 1.—Buffalo. Sm. Buff. vi. 151. pl. clxviii. Barbot, guin. 209. 486. Pcnn. hift. of quad. n 8. Zimmerman. 369.—Buffel. Gefn. thierb. 58.—Buffelochfen. Kolben, Cape. 143. t. 5. f. 2. Br. muf. Afhm. muf. Lev. muf.

Inhabits Afia, being found wild in Malabar, Borneo, and Ccylon, and is domefticated in Africa, India, and Italy.—The Buffalo is larger, and more thickly made than the Domeftic Ox, with which fpecies it will not propagate: The different times of gestation shew the difference of species, as the Common Cow goes nine, and the female Buffalo twelve, months with young. They were introdu-

ced into Italy in the fixth century by the Lombards; they are used for draught and carriage, being guided by means of a ring in the nose, and are employed for the dairy, though the milk is much more greafy than that of common Cows. The skin is exceedingly thick; the hair is black or dusky red, and rather scanty; in very hot countries the skin is almost naked; the head is small, with curly hair on the fore-head, and a kind of beard under the throat and jaws; the horns are black, thick, somewhat compressed, and often very large; there is no dewlap on the breast; the ears are large, the nose is broad, and the eyes are white; the limbs are long, and the tail is short and slender.

339

Mr Pennant mentions the following animals as varieties of the Buffalo.

β. Naked Buffalo. — B. Bubalus seminudus.

The horns are small, compressed sideways, taper, sharp pointed, and standing backwards: The rump and thighs are naked. Penn. hist. of quad. n. 8. A. pl. ii. f. 1.

Inhabits India.—This animal is of a fmall fize, like a Welfh runt; the hair on the fore part of the body is briftly, and fo thin that the kin appears through; on the rump are two dufky perpendicular fripes, and on the thighs two transverse bands of the same colour.

y. Anoa.—B. Bubalus Anoa.

Of a very small size. Penn. hist. of quad. n. 8. B.

754

755

756

757

Inhabits the mountains of Celebes.—This animal, of which we have no description, is about the fize of a middling Sheep, and is very fierce; it lives in small herds, taking shelter in the caverns, with which the mountains of that island abound; is very difficultly caught, and very impatient of confinement.

S. Guavera. - B. Bubalus Guavera.

Has a hunch on the back; and the lower half of the legs are white. Penn. hift. of quad. n. 8. C. Knox, Ceylon. 21.

Inhabits Ceylon.—The description of this animal is not sufficient to point out its proper place in this genus, all that Mr Knox says being that its back stands up in a sharp ridge.

7. Cape Ox. -- 6. Bos cafer. 6.

The horns, which are very broad and closely united at the base, stand first outwards, then turn forwards, and the points, which are taper, bend upwards and inwards. Sparrmann, act. Stock. 1779, i. n. 8. t. 3. f. inf.

Cape Buffalo. Sparrm. voy. pl. ii. fig. inf.—Cape Ox. Penn. hift. of quad. n. 9. A. Maffor, Phil. Tranf. lxvi. 296. Forfters, voy. i. 83.—Bubalus africanus. Briff. regn. an. 79. n. 2. Jonft. quad. t. 18.—Africanischer Buffel. Gefn. thierb. 60.—Bos africanus. Raj. quad. 73. Aldrov. bif. 363. f. p. 364. Jonft. quad. 52.

Inhabits Africa near the Cape, and in Guinea.—This is a very large, excessively fierce, and enormously strong animal; it lives in the woods, is fond of wallowing in the mire, and is very dangerous to travellers, rushing suddenly from the thickets in which it lies concealed, and tramples men, hor-

fes, and oxen, under its feet; is so swift, especially in running up hill, that a horse cannot overtake it; and so strong, that one of three years old being yoked in a waggon with fix tame oxen, their whole united strength could not force it to move. It is of a black or dusky ash colour; the face is covered with long harsh black hair; the chin, underside of the neck and dewlap, have long, coarse, pendent, black hair; the horns are very thick and rugged at the base, near thirteen inches broad, and laid flat so as to cover most part of the top of the head; the upper half is smooth, taper, and sharp pointed; they measure sometimes above three feet long, and weigh twenty-sive pounds; the skin is thick, tough, and very strong; the hairs are very stiff, and about an inch long, lying flat on the adult animals; before the knees, and on the belly, it is long and undulated; on the top of the neck is a small mane; the ears are large and slouching; the tail is short, almost naked, and tusted at the end with long black hair. The body and limbs are very thick and strong; it is above eight feet long, and about fix feet high; the head hangs much, and has a very sierce malevolent aspect. The steff is coarse, but juicy, and has the slavour of venison.

758

8. Baas. - Bos barbatus.

Has flort horns; a beard on the chin, and curly hair on the breast. Penn. hift. of quad. p. 30.

Cape Aurochs. Journ. hiftor. 43. 46.

Inhabits the country north from the Cape.—This animal, which is very flightly described, lives in the country of the Namaques, who call it Baas, or the Master Courier, on account of its vast swiftness: It is like the Common Ox, but larger, and of a grey colour; the head is small, the horns short, the hair on the breast is curled, and on the chin is a beard like that of a Goat.

759

9. Dwarf Ox .- Bos pumilus.

The horns are almost erect, close at the base, recede in the middle, and approach at the points. Penn. hist. of quad. n. 10. pl. ii. f. 3.

Bubalus, f. Bos parvus africanus. Belon, obf. 119.—Juvenca fylvestris. Prosp. alp. aeg. i. 233. t. 14. f. 2.—Bos exiguus africanus. Klein, quad. 11.—Small Ox of Belon. Sm. Buff. vi. 165.—Petit boeuf d'afrique. Belon. voy. 119. 120.

Inhabits Africa.—This animal was feen at Cairo by Belon, who fays it came from Afamie or Azafi in Morocco: It is larger than a Roe, but lefs than a Stag, compact and well made, with a thick neck, the fhoulders a little elevated, and the legs fhort; the hair is finning, and of a tawny brown colour, and the tail is terminated by long and very coarfe hairs. The Count de Buffon fuppofes this animal to be the fame with the Zebu, and Mr Pennant alledges that it may possibly be a variety of the Dant.

VI. BELLUÆ.

Has obtuse wedge-like, truncated fore-teeth in both jaws. The seet are armed with hoofs.

XLI. H O R S E.—40. E 2 U U S. 33.

Has fix parallel, erect, fore-teeth above, and fix, which project a little, in the lower jaw; one short tusk, distant from the other teeth on each side of both jaws: The female has two teats in the groin.

This genus is the only one which has fingle hoofs, though that circumstance is left out of the character on account of an obscure species in Chili which is said to have cloven hoofs; several of the species are of considerable use to mankind for draught, for burthen, and for the saddle; they all sight by biting, and by kicking with their hind seet. It is the only race of animals in which the mammae are wanting on the males, though we are told that they are placed on the glans penis.

1. Common Horse,—2. Equus Caballus. 1.

Has folid hoofs, a long flowing mane, and the tail is univerfally covered with long hairs. Svft. nat. ed. xii. 100. n. 1. Briff. regn. an. 100. n. 1.

'1ππος. Arift. hift. an. i. c. 5. 7. ii. c. 5. 8. 18. iii. c. 10. v. c. ii. vi. c. 22. vii. c. 17. viii. c. 11. ix. c. 5. Aelian, an. iii. c. 2. iv. c. 6. 7. 8. 11. Oppian, cyneg. i. 166.—Equus, Equa, Equiferus. Plin. hift. nat. viii. c. 42. x. c. 63. xi. c. 37. xxviii. c. 10. 11. Gcfn. quad. 442. f. p. 443. Schwenkf. theriot. 89. Aldrov. folid. 2. f. p. 21. Jonft. quad. t. 1. 4. Charlet. exerc. 3. Wagn. helvet. 174. Sibbald. Scot. 6. Raj. quad. 62. Rzacz. Polon. 217. 240. Sloan, jam. ii. 327.—Cheval, or Horfes. Sm. Buff. iii. 306. pl. xi. Penn. hift. of quad. n. 1. Brit. 2002. i. 1.—Rofs. Gcfn. thierb. 306. f.. p. 307.

a. Wild Horse. - a. E. Caballus ferus.

Of this there are feveral varieties mentioned in authors.

760

761

¢

Wilde Pferde. J. G. Gmelin, It. i. 211. iii. 510. S. G. Gmelin, It. i. 44. t. 9. Pallas, It. i. 211.—Tarpany. Rytschk. Orenb. i. 223.—Takija, or Wild horses. Bell, trav. i. 225. Du Halde, Chin. ii. 254. Leo. afric. 340. Journ. histor. 40.

β. Domestic Horse.—β. E. Caballus domesticus.

Of this there is almost an infinite variety, in colour, fize, and form. Klein, quad. 4.

Horfes:

Horses are domesticated and cultivated with great care in almost every part of the earth. It is the most generous, most spirited, and most docile of all quadrupeds, the Dog alone excepted, and is excellently adapted for a variety of useful purposes, for draught, burthen, and riding. In a naturally wild state, horses are found in Bessarabia, and the deserts of Great Tartary; those of the deserts near the Don are the offspring of the Russian cavalry horses, turned loose for want of forrage during the siege of Asoph in 1697: Wild Horses are likewise found in various parts of Asrica; and, though none of the species was found in America before its discovery by Columbus, there are now vast numbers wild in the great Savannas of South America, on both sides of the Rio Plata, descended from such as were carried there by the Spaniards, and happened to stray from their masters; in the wild state, they go in slocks under the conduct of a leader, are extremely vigilant, placing centinels to give notice of danger, very timid, shy, and swift. Those of Tartary are generally of a dun or mouse colour, and less than the domestic kind, being covered with a very thick coat of hair, especially in winter; their heads are large, and their fore-heads much arched.

The domestic horses vary much in fize, colour, figure, and spirit, from climate, soil, food, breeding, and management: The most elegant, swiftest, and most generous, come from Arabia; very small ones are found in Scotland, especially the Shetland isles, Iceland, Norway, and Ceylon, Horses not exceeding thirty inches high having been brought from that island, whereas some of the European breeds reach fix feet. England, from attentive culture, and by intermixture of the best foreign breeds, can boaft of having the fwiftest, largest, strongest, and most elegant varieties now in the world. The male is named Horse, or Stallion, when emasculated Gelding, the female Mare, the young Foal, when male Colt, if female Filly: The voice is called neighing: The paces are walking, trotting, ambling, pacing, cantering, prancing, galloping, running: They are diftinguished, according to the purposes to which they are applied, and other circumstances, into Draught-horse, Pack-horse, Warhorfe, or Charger, Hunter, Racer, Pad, Hackeny, or Road-horfe, Galloway, Ponney, Shelty, Bloodhorfe, &c. They fight by biting, by kicking with the hind feet, and by ftriking with the fore feet: They feed entirely on grain and herbage, and eat even Aconite with impunity: The tail is of great use for driving away flies and other infects: When fatigued, or on purpose to scratch, Horses frequently roll on their backs: The fromach is finall, and the food, without being ruminated, paffes through the body undiffolved, only a tincture being drawn by the digeftive powers; the fmall guts are long, the colon and caecum, or blind gut, are very large: The Horse has no gall bladder, and never vomits; the dung is remarkable by its property of becoming very hot during putrefaction. Horses are much annoyed by hard substances getting into their ears, or by pricks in the feet; they diflike dirty or spoiled foods, are impatient of the bridle till accustomed to it, and are much tormented by the Horse-fly, Gad-fly, and Phellandrium curculio. They change their fore-teeth in the fecond, third, and fourth years of their age, and acquire tufks at five years old: The female goes two hundred and ninety days with young, and feldom has more than one foal at a birth. The hide and hair are converted to useful purposes: The Tartars and Arabs are fond of the flesh; the former use the milk, which they convert by fermentation into an intoxicating liquor, called Koumiss, which is flaid to cure confumptions.

2. Dshikketei .- 3. Equus Hemionus. 5.

Has folid hoofs, is of a uniform colour with no cross on the back, and the extremity only of the tail has long hairs. Pall. It. iii. 217.

Dihikketei, of the Monguls. Pall. nord. beytr. ii. 1. t. 1. Nov. com. Petrop. xix. 394. t. 7.—Yo-to-tfe.

Yo-to-tse. Du Halde, ii. 253.—'Hassoves. Arist. hist. an. vi. c. 36.—Hemionos. Plin. hist. nat. viii. c. 44.—Czigithai. Sm. Buff. vi. 274.—Dshikketei, Wild Mule, Half-ass, or Fesund Mule. Penn. hist. of quad. n. 2. Zimmermann. 666.

Inhabits the deferts between the rivers Onon and Argun, the Mongalian deferts, and the great defert of Gobi between China and Thibet.-Lives in herds chiefly frequenting funny plains, places where falt fprings and faline plants abound, and graffy meadows, but avoiding woods and fnowy mountains. It is exceedingly fly, cautious, timid, and very fwift, having very acute fenses of fmell and hearing, is very wild, and has not hitherto been tamed. Like horses and cattle, they are very fubject to a diftemper called the Murrain; they fight by kicking and biting; the female is in feafon in August, and brings almost always one foal in spring; the sless is reckoned excellent by the Monguls and Tungufi, and they use the skins for constructing a kind of boat. In size and general anpearance this animal refembles the Mule, though handfomer; the ears and tail are like those of the Zebra, the hoofs and the body are like the Afs, and the legs refemble those of the Horse; it differs from these quadrupeds in having a very large head with a slat fore-head, which grows narrow towards the nofe, and in having a flender neck, which is more rounded than in the other species of this get nus, and has a fhort, upright, foft, greyish mane; instead of a lock of long hair on the fore-top, there is a tuft of downy hairs not two inches long; the ears are long, erect, and lined thickly with whitish curly hair; the winter coat is about an inch and a half long, grey at the tips, of a brownish ash colour at the roots, exceedingly foft, and undulated on the back; in fummer the coat is much shorter, and exceedingly fmooth, being marked all over with beautiful whorls: The end of the nofe is white, and the rest of the face somewhat tawny; the buttocks, inside of the limbs, and the belly, are white; a blackith lift runs along the back, broadeft at the loins, and narrowing to the tail; the tail is like that of a Cow, covered with short hair for half its length, and the lower part with long ash coloured hairs. The weight of this animal is about five hundred and fixty pounds; it measures fix feet and a half from the tip of the nose to the origin of the tail, and is about three feet nine inches high at the shoulder: The mouth contains thirty-four teeth, which is two fewer than in a Herse.

3. Als.-4. Equus Asinus. 2.

Has folid hoofs; the male has a dusky cross on the shoulders; only the lower part of the tail is furnished with long hairs. Syst. nat. ed. xii. 100. n. 2. Faun. succ. i. n. 35. Briff. quad. 70.

Afne, or Afs. Sm. Buff. iii. 198. pl. xii.—Efel. Gefn. thierb. 91.—Afs. Penn. hift. of quad. n. 3. Brit. 2001. i. n. 2.

a. Onager.—2. a. E. Asinus ferus.

The fore-head is much arched; the mane is woolly and dusky; the ears are long and erect.

Orages. Oppian. cyneg. iii. 183.—Onager. Plin. hift. nat. viii. c. 44. 58. Aldrov. folid. 352. Jonft. quad. 20. t. 7. 8. Raj. quad. 63. Pall. act. Petrop. 1777, ii. 258. Varro, de re ruft. ii. c. 6. Martial, xiii. 97. Pomp. Laet. i. Profp. alp. aeg. iv. c. 6. Tavern. i. 21.—Onagrus. Gefn. quad. 19.—Afinus. Charlet. exerc. 4.—Equus Onager. Briff. regn. an. 104. n. 5.—Afine fauvage. Marmol. afr. i. 53.—Wild Afs. Bell, trav. i. 212.—Wilder Efel. Pall. nord. beytr. ii. 22. t. 1. H2-blizl, in D°. iv. 88.—Koulan, or Wild Afs. Penn. hift. of quad. n. 3. A.

Inhabits the mountainous deferts of Great Tartary, from whence it migrates during winter into India and Perfia, especially about Casbin, where it is found all the year; is likewise found in the fouth of India, as far as the mountains of Malabar and Golconda; was anciently found in Natolia, Syria, Arabia, and Africa.-This animal is much more elegantly formed, and ftands higher on its legs than the Common Ass, and is exceedingly active and swift; although extremely fierce in its wild flate, it is very readily tamed, especially when caught young; it has a most exquisite sense of smelling, and very acute vision; is particularly fond of falt ponds and springs, and of faline and bitter plants: The general colour is white with a filvery splendour, the top of the head, neck, and sides. being pale yellow; the mane is dufty or blackish brown; and along the back is a list of a coffee colour, composed of waved bushy hairs, and crossed, in the males, by a similar band at the shoulders; the hairs are fofter than those of a Horse; the skin makes excellent leather, and, by a particular mode of preparation, that which grows about the rump is manufactured, at Aftrachan, and in Perfia. into chagrin; the flesh is much esteemed by the Kirgistan Tartars. The Onager measures almost feven feet from the tip of the nose to the origin of the tail, of which the head is two feet, and is four feet two inches high before, and four inches higher at the rump, the tail is about two feet, and the ears almost a foot in length; the female is considerably smaller, and less strongly made, than the male, and wants the dark coloured crofs band at the shoulders: The upper part of the face, the neck, and fides, are flaxen coloured; the fore parts are divided from the hind by a white band round the body at the flanks; the belly and legs are white, and the dufky lift on the back is edged on each fide with white: The winter coat is fine, foft, filky, much waved, and feels greafy; while the fummer coat is finooth, filky, and even, except fome shaded rays pointing downwards at the fides of the neek.

764

β. Domestic Ass.—2. β. E. Asinus domesticus.

The fore-head is rather flat; the mane is short; the ears are long and slouching.

'Ovos. Arist. hist. an, i. c. 17. ii. c. 18. v. c. 11. vi. c. 23.—Asinus. Plin. hist. nat. viii. c. 43. Gesn. quad. 3. f. p. 4. Schwencks. ther. 61. Aldrov. solid. 295 Jonst. quad. 16. t. 6. Sibbald. Scor. 6. Raj. quad. 63. Sloan, jam. ii. 327. Klein, quad. 6.—Asine. Tavern. trav. i. 344. Chardin, trav. iii. 33. Sm. Buff. iii. 398. pl. xii.—Esel. Osb. ostind. 35.—Ass. Penn. hist. of quad. n. 3. Brit. 2001. i. 2.

The domestic As is cultivated almost in every quarter of the world, being a strong, hardy, patient, and sure footed animal, but obstinate, stubborn, stupid, and frequently vicious; it grows to a considerable size, and is tolerably handsome in the warmer regions, but degenerates much in the colder countries, in which their ears slouch considerably more than those which are bred in Africa and the east. Buffon supposes the As to have come originally from Arabia to Egypt, and thence, through Greece, to Italy, France, Britain, Germany, and other countries. The voice of the As is named braying; he eats greedily of thistles, and other spinous, and disagreeable herbs, which Horses will not touch, except when pressed with hunger. The As comes to its full fize in about five, and lives for about thirty years; both sexes are very ardent, and the semale, after twelve months, according to Buffon, though Linnaeus says two hundred and ninety days, produces almost always one young at a birth. The principal employment of Assess in Britain is for carrying the luggage of beggars, gipseys, and tinkers, and the milk is much commended for pectoral complaints; in Spain and the Levant they are cultivated with great care, especially for the males, which, with mares, produce mules of a sine breed.

y. Mule .- 2. y. E. Asinus Mulus.

The hybrid produce of a Jack-ass with a Mare; has a large clumsy head, long erect ears, a short mane, and a thin tail. Briff. quad. 103. n. 4.

'Ogeos. Arist. hist. an. i. c. 7. ii. c. 5. vi. c. 24.—Mulus, Mula. Plin. hist. nat. viii. c. 44. xi. c. 37. Gesn. quad. 793. Schwencks. ther. 62. Aldrov. solid. 358. Jonst. 21. t. 6. Charlet. exerc. 4. Sloan, jam. ii. 327.—Asinus biformis. Klein, quad. 6.—Mule. Sm. Buff. viii. 1. Penn. hist. of quad. p. 8. Brit. 2001. i. 13.—Maul efel. Gesn. thierb. 108. Osb. ostind. 35.

The Mule is much valued for the faddle, and for drawing carriages, in Spain, Portugal, Italy, and the East, and in the warmer parts of America: In these countries, where great attention is paid to the breed, it is as tall as the Horse, exceedingly well limbed, but not so handsome, especially about the head and tail; they are mostly sterile, though there are a few instances of semale Mules producing soals, and even of the male having impregnated semales both of the Ass and Horse species, but these are exceedingly rare.

766

S. Bardeau. - 2. S. E. Asinus Hinnus.

The hybrid produce between a She ass and a Stalion; the head is long and thin, the ears are like those of a Horse, the mane is short, and the tail is well filled with hair-Sm. Buff. viii. 2.

rivras. Arift. hift. an. i. c. 7.—Hinnus. Plin. hift. nat. viii. c. 44. Gefn. quad. 18. Aldrov. folid. 358. Jonst. quad. 21. Charlet. exerc. 4. Raj. quad. 64.

The Bardeau is much fmaller, and less useful, as well as less common, than the Mule, and is more of a reddish colour; in the ears and tail it has a greater resemblance to the Horse, but the mane is short like that of the Mule; it is, however, very little known, being seldom cultivated on purpose, because less hardy, and less sitted for the various purposes of life, than either the Horse, the Ass, or the Mule.

767

4. Zebra. - 5. Equus Zebra. 3.

Has folid hoofs; is of a pale buff colour, and striped all over the body with perpendicular brown bands, and the limbs with cross stripes; the ears are short and erect; the mane is short, and the tail is thinly garnished with hair at the end. Briff regnant 101. n. 2.

Equus indicus. Jonft. quad. t. 5.—Equus brafiliensis. Jacob. mus. reg. 3. t. 2. f. 1. Laur. mus. reg. t. 3. f. 18.—Equus ferus, Zebra, s. Zecora. Klein, quad. 5.—Zebra. Purch. pilg. ii. 1001. Charlet. exerc. 4. Raj. quad. 64. Barbot, guin. 486. Penn. hist. of quad. n. 4. Nieremb. hist. nat. 168. Sm. Buff. vi. 264. pl. clxxxii. clxxxiii.—Zecora. Ludolf. aeth. i. c. 10. n. 35. comm. 150.—Zeura, or Zecora. Lobo. abyst. i. 291.—Zebra indica. Aldrov. folid. 416. f. p. 417. Jonst. quad. 21. t. 5.—Male Zebra. Edw. av. t. 222.—Wild Ass. Kolben, cape. ii. 112.—Indianisher Maulthier. Gesn. thierb. 120.—Africanisches Tygerpferd, oder Eselpserd. Knorr, del. ii. t. k. 8. Lev. mus.

Inhabits Africa, from Congo and Angola across to Abyssina, and southwards to near the Cape of Good Hope.—This extremely beautiful animal lives in herds, chiefly frequenting the open plains, Vol. I.

but is exceflively fly, and runs into the woods on the approach of mankind. It is exceedingly fwift, vicious, and untameable; is about the fize of a Mule, and is flaped much like the Afs, with florter and lefs flouching ears. The male and female are marked exactly in the fame manner, as described in the character.

768

β. Hybrid Zebra. - E. Zebra hybridus.

Mr Pennant informs us, that by painting a common Jack-ass to resemble the Zebra, a female Zebra admitted its embraces, and produced a hybrid animal, some years ago at London; but gives no account of its appearance.

769

5. Quacha.-6. Equus Quagga. 4.

Has folid hoofs; is of a bright bay colour on the upper parts of the body, and striped with perpendicular brown lines; the slanks are spotted, and the rump plain; the belly, thighs, and legs, are white. Penn hist of quad. n. 5.

Opuagha. Maffon, trav. in Phil. Tranf. lxvi. 297. Journ. hift. 40.—Quacha. Voy. de M. Hop. 40.—Female Zebra. Edw. av. t. 223.

Inhabits the fouth of Africa.—This animal is thicker, and more ftrongly made, than the Zebra, and is more tractable, having fometimes been broken to the draught; it likewife keeps always in feparate herds, and is diffinguished from the former species by the Hottentots.

770

6. Chilese Horse.—I. Equus bisulcus. 6.

Has cloven hoofs. Molin. hift. nat. Chil. 284.

Inhabits South America.—This obscure quadruped, which is only mentioned by Molina, frequents the precipitous and rocky mountains of the Andes or Cordellieras; in fize, number and arrangement of teeth, and in general appearance, it resembles the Horse, for which reason it is placed by Dr Gmelin in this genus, though its cloven hoofs are similar to those of the animals belonging to the former order: It is a very vicious, wild, and exceedingly swift animal, having the fize, hair, colour, nose, eyes, neck, back, tail, legs, and genitals, resembling the Ass, with which it likewise agrees in its internal structure, but wants the dusky cross on the shoulders, and resembles the Horse in the figure of its ears, and the neighing sound of its voice.—Perhaps this animal may only be a wild Horse, degenerated through the inclemency of the mountainous district which it inhabits, and the circumstance of its having cloven hoofs may be exaggerated, or only a mistake.—T.

XLII. HIPPOPOTAMUS.—41. HIPPOPOTAMUS. 34.

Has four fore teeth in each jaw; those above are placed in pairs at some distance from each other; those below are prominent, the two intermediate teeth being considerably longer than the other two. In each side of each jaw is one tusk; those of the under jaw are very long, much crooked,

and obliquely cut off at the ends. The feet are each armed with four little hoofs round the edges.

Of this genus there is only one species hitherto known, which is supposed to be the Behemoth of the book of Job.

1. Amphibious Hippopotamus.—1. Hippopotamus amphibius. 1.

Has four small rounded hoofs on the edges of all the feet. Houttuyn. iii. 405. t. 28.

Ποταμιος 'ππος. Arift. hift. an. ii. c. 7. 12. viii. c. 24. Aelian. an. v. c. 53.—Hippopotamus.—Plin. hift. nat. viii. c. 25. 26. xi. c. 12. 37. 39. xxxii. c. 11. Bel. poiff. 47. f. p. 50. D°. obf. 104. Gefn. aquat. 494. Column. aq. 28. t. p. 30. Aldrov. dig. 181. 183. Jonft. quad. 108. t. 49. Charlet. exerc. 14. Ludolf. aeth. i. c. 10 n. 1. p. 155. Raj. quad. 123. Shaw, trav. 427. Klein, quad. 34. t. 3. Briff. quad. 122. Haffelqu. palaeft. 280. Forfk. faun. orient. 4. Radzivil, It. hicros. 142. Sparrman. act. Stock. 1778, iv. n. 12: D°. trav. ii. pl. 4. Chemniz, naturf. xxi. 84. Journ. hiftor. 17. t. 2. Allamande, 124.—Hippopotamo. Zeringhi, monogr.—Hippopotame, or Cheval marin. Theven. It. i. 491. Marmol. afr. i. 51. Juffieu, act. Parif. 1724, p. 209. Lobo, abyff. i. 258. Maillet, aeg. ii. 31. Adans. feneg. 73. Sm. Buff. vi. 277. pl. clxxxiv. Penn. hift. of quad. n. 68.—Cheropotamus, et Hippopotamus. Profp. alp. i. v. 245. t. 22. 25.—River horfe. Grew, muf. 14. t. 1.—Hippopotami, River-horfes, Water-elephants, or Ker-kamanon. Barbot, guin. 73. 117.—Seekuh, or Sea-ox. Kolben, cape. ii. 129. Wafferochs. Knorr, del. ii. t. K. 12.—Sea-horfe. Dampier, voy. ii. 104. Moor, gambia. 105. 188. 216.

Inhabits the rivers of Africa, from the Nile as far as the Cape of Good Hope, and in the lakes of Abyffinia and Ethiopia, through which the Nile flows .- This animal is gregarious and polygamous, one male appropriating feveral females; it lives chiefly on the fugar cane, Egyptian bean, and millet, and frequently makes excursions of fix miles from the water, its general habitation, during the night in quest of food; it sometimes feeds on the roots of trees, but never on fishes, though some authors. fay that it devours fish, crocodiles, and even dead carcafes of animals. The Hippopotamus is capable of being tamed, as we are informed by Belon that he faw one at Conftantinople for gentle that it was fometimes allowed to go loofe, and would eat from the hand of its keeper: It is generally of gentle and inoffenfive manners, and very fly, unless when irritated or wounded, when it will attack boats and mankind with great fury. On dry land it walks flowly, and even with difficulty, especially in marfly places, on account of its clumfy form and great weight; but when purfued it takes to the water, where it fwims with great fwiftness, and walks at the bottom with ease; this circumstance is. very remarkable, as it has no external conformation, like other aquatic animals, peculiarly fitted for fwimming: It cannot, however, remain long under water at a time, being obliged to rife to the. furface for breath; this it does, in the day time and in places much frequented by mankind, with great caution, not venturing even to put the nofe above water, but in very fequestered situations, and in the night, it often raifes the whole head. When it leaves the water, to graze on shore, it sometimes puts out half the body to look around, but fometimes rushes out at once with great impetuofity, and tramples every thing which it encounters under foot. It generally fleeps in places which are overgrown with reeds, either on the banks of rivers, or in islands, and in these places the femalebrings forth one young at a time, which she suckles in the water. The voice is between that of a: Horse and an Elephant, or a Buffalo, and is very sonorous...

X x 2

BELLUÆ.

The Hippopotamus is almost as large as an Elephant, being-sometimes seven feet high, seventeen feet long, and weighing from four to five thousand pounds, so that twelve oxen have been found neceffary to drag afhore the carcase of one that had been shot in a river near the Cape. Dr Gmelin compares the body and general appearance to an Ox, the feet to a Bear, the toughness and thickness of skin to a Rhinoceros, the tusks, tail, hinder part of the body, and mode of living, to a Hog. The head is enormously large, with a very wide mouth; the ears are finall and pointed, with a border of thort fine hairs; the eyes and noftrils are very finall; the lips have feveral tufts of firong coarfe hairs; the tusks are fometimes twenty-seven inches long, and near feven pound weight each; these and the grinders are very white, much harder than ivory, infomuch that fome authors fay they will ftrike fire with fteel, and, from having the property of preferving their colour without growing yellow, they are much esteemed among dentifts for making false teeth; of the grinders there are fix on each fide above and eight below. The fkin is of a dark colour and almost naked, having only a few feattered, and fearcely decernible, white hairs, which stand a little thicker on the neck, but without forming any mane; the skin is fo thick and tough as to resist a bullet when dry, and is used by the inhabitants of Africa for making shields. The tail is about a foot long, and almost a foot in circumference at the origin, naked, tapering to a point, and flattened. The legs are extremely thick, and very fhort in proportion, and the lobes of the feet have no connecting membrane. by fome authors faid to be delicious, while others represent it as very dry and of difficult digestion, while the fat, of which a full grown animal is faid to yield about two thousand pounds, is esteemed excellent, and is recommended as a fovereign remedy for pulmonary difeases, on which account it is falted and fent to the Cape, where it fells at a dear rate.

XLIII. TAPIR.-42. TAPIR.

Has ten fore-teeth in each jaw, and no tulks. The fore feet have each four, and the hind feet three hoofs.

Of this genus there is only one species, which is entirely confined to South America, and therefore was unknown to the ancients.

A. American Tapir,-1. Tapir americanus.

Has a long extensile and flexible proboscis or snout. Briff. regn. an. 119.

Tapir. Sm. Buff. vi. 243. pl. clxxxi.—Long-nofed Tapir. Penn. hift. of quad. n. 69.—Tapihires. Thevet. cofin. ii. 937. b.—Tapiirete. Marcgr. braf. 229. Pif. ind. 101. Raj. quad. 126. Klein, quad. 36.—Tapirouffou. Lery, voy. 154.—Beori. Laet, amer. 328.—Danta. Nieremb. hift. nat. 187. Jonft. quad. 216. Chieza, peru. 20. - Antes. Nieuhof, braf. in Har. voy. ii. 23. - Anta. Marcgr. et Pifo, loc. fup. cit. Gumil. oron. i. 300.—Elan, Elk, or Vagra. Condam. voy. 163.— Maipouri, or Manipouri. Barrere, fr. equ. 160.—Hippopotamus terreftris. Syft. nat. ed. x. 74. n. 2.—Sus aquaticus multifulcus. Barrere, fr. equ. 160. Fermin, furin. ii. 80.—Hydrochaerus Tapir. Erxl. mam. 191. n. 1.-Wafferschwein. Knorr. del. ii. t. K. 13.-Mountain Cow. Dampier, voy. ii. 102.—Elephant hog. Wafer, in Damp. voy. iii. 400.—Species of Hippopotamus, or Riverhorse. Bancroft, guian. 127.

Inhabits the woods and rivers of the eaftern coaft of South America, from the Isthmus of Darien to the river Amazons.—The Tapir fleeps during the day in the thickest and most covert places of the woods, adjacent to the banks of rivers and lakes, into which it plunges when disturbed, and swims or walks on the bottom in the fame manner with the Hippopotamus; it goes about during the night in quest of food, and feeds on grass, sugar canes, fruits, and other vegetables. It is an animal of a mild and gentle nature, and is very eafily made tame, being fometimes kept in farm yards in Guiana, and fed along with the cattle; it is timorous, falacious, fluggish, and slow footed, but swims remarkably well, and dives to the bottom of the water, where it walks as well as on dry land. When domeflicated it becomes familiar, will take any thing that is offered, and will even rummage with its nose in peoples pockets for meat. This is the largest of the animals which are peculiar to America, being about the fize of a finall cow, and having some general resemblance to a hog: In the male the nose is elongated into a fort of proboscis or flexible trunk, which extends far beyond the lower jaw, and is capable of being contracted and extended at pleasure; the fides of this faout are furrowed lengthways, and with this the animal is able to lay hold of any thing and convey it to the mouth; the nofe of the female is defittute of this elongation, and both jaws are of equal length, ending in a pointed fnout: The ears are roundish and erect; the eyes are very small; the neck is thick, short, and has a kind of briftly mane, about an inch and a half long, on its upper part, near the head; the body is thick and clumfy, and the back is fomewhat arched; the legs are short and thick, with small, black, hóllow hoofs; the tail is very fhort and naked; the skin is very tough, and is covered with a fhort dusky coloured fur, which in young animals is spotted with white: The voice of this animal refembles a kind of hiss: There are five grinders on each fide in each jaw, with a vacancy between them and the cutting teeth.

XLIV. H O G.-43. S U S. 35.

Has four cutting teeth in the upper jaw, whose points converge; and, for the most part, six in the lower jaw, which stand forwards: There are two tusks in each jaw, those in the upper jaw being short, while those of the under jaw are long, and extend out of the mouth. The snout is prominent, moveable, and has the appearance of having been cut off, or truncated. The feet are armed with divided or cloven hoofs.

The animals of this genus have a very firm cartilaginous frout, of a round form, provided with ftrong tendons, and with it they dig in the earth in quest of roots, and other kinds of food; they are in general rather foul feeders, and live almost indifferently on animal and vegetable food, even devouring the most corrupted carcasses, and the excrements of other animals; they are likewise fond of wallowing in the mire. The male is named Boar, the female Sow, and the young ones Pigs; the female has a great number of teats disposed longitudinally along the belly and breast, and is extremely prolific.

774

1. Common Hog.—1. Sus Scrofa. 1.

The fore part of the back is beset with hard bristles, and the tail is hairy. Faun. suec. 21.

Amoen. ac. v. 461.

The Hog is domesticated almost every where over the earth, except in the Frigid Zone, in Kamtfchatka, and other places where the cold is very great.—It has a rank finell, especially the male; digs the earth with its nofe, and lives almost upon any thing that comes in its way, fucculent vegetables, grafs, roots, grain, animal food, carcaffes, excrement, and even its own offspring; yet, when food is plentiful, it shews confiderable choice. It is a lazy, indolent, and stupid animal, yet can run fwiftly when urged, and shews great figns of uneafiness and restlessness before high winds. When it is plentifully fed it becomes exceedingly fat, especially on the furface of the body, between the skin and the panniculus carnofus, or cutaneous muscle; it is fond of basking in the sun and of wallowing in the mire; when irritated it runs furioufly against an enemy, making a loud grunting noise, and foaming at the mouth. Though originally unknown in America, it has now become very common, and is extremely useful by destroying Rattle-snakes and other serpents, which it devours with fafety. It is exceedingly lascivious, yet very tardy, owing to the length and laxity of the penis; the female has a vast number of teats, goes four months with young, and has very numerous litters, fometimes as far as twenty at a time; it lives to a confiderable age, even to twenty-five or thirty years, without losing its teeth; is much infested with lice, and is subject to hydatyds, scrofula, measses, and cutaneous eruptions, and is poifoned by eating pepper. The species is subdivided into the following varieties.

a. Wild Hog.—1. a. S. Scrofa ferus.

The ears are short, and somewhat rounded. Briff. regn. an. 75..

Υς ἀγειος. Arist. hist. an. i. c. 2.—Καπεος. Do. ii. c. 9. 11. v. c. 13. Oppian. cyneg. iii. 364.— Συς ἀγειος. Aelian. an. v. c. 45.—Sus ferus. Plin. hist. nat. viii. c. 51.—Sus. Charlet. exerc. 13.— Sus agrestus, Aper, Wild-boar. Raj. quad. 96.—Porcus. Plin. hist. nat. xviii. c. 35. Jonst. quad. t. 48. Klein, quad. 25.—Aper. Gesn. quad. 1039. f. p. 1040. Schwenks. ther. 54. Aldrov. bis. 1013. f. p. 1025. Jonst. quad. 105. t. 47. 48.—Wieprz-lesny, Dzik. Rzacz. pol. 213.—Cochon sauvage, Maron, Sanglier. Des Marchais, voy. iii. 296.—Sanglier, Marcassin, Wild Boar. Sm. Buff. iii. 500. pl. xx. xxiii. f. 1.—Wild Hog. Brown, jamaic. 487. Penn. hist. of quad. n. 61. A.—Wild Schwein. Gesn. thierb. 336. Ridinger, jagd. th. t. 6.

The Wild Hog, or, as it is usually called, Wild Boar, inhabits the South of Europe, the north of Persia, Japan, Asia from Syria as far as lake Baikal, the coast of Barbary, India, Ceylon, Java, and the other Indian islands.—It is generally of a dark brindled colour, and somewhat hoary, having soft, short, curled hair beneath or between the bristles; the young ones have several longitudinal streaks, of yellowish and dark brown alternately, from the rump to the back of the head along the back and sides. This animal, though very slothful, drowsy, and stupid, is very swift, and extremely sierce; the semales usually litter in May or June. In the Wild Hog, the snout and tusks are considerably songer than in the domestic varieties; and it is not so apt to become fat, especially on the bowels, where the fat is called lard.

β. Domestic Hog.—1. β. a. S. Scrofa domesticus.

Has long, pointed, flouching ears. Briff. quad. 74.

776

777

778

. ..

'Ye. Arist. hist. an. ii. c. 5. 7. v. c. 13. vi. c. 8. 28. viii. c. 9. Ael. an. iii. c. 3. x. c. 16.—Sus, Verres, Scrofa. Plin. hist. nat. viii. c. 51. x. c. 63. 73. xi. c. 37. 39. Gesn. quad. 982. f. p. 983. Schwenkf. ther. 123. Aldrov. bif. 937. f. p. 1006. Jonft. quad. 99. t. 47. Sibb. Scot. an. 9 .--Sus, Porcus domesticus. Raj. quad. 92. Sloan, jam. ii. 328.—Cochon, Verrat, Cochon de lait, or Hog, Boar, Sow, and Pig. Sm. Buff. iii. 500. pl. xxii. xxiii. f. 2.—Schwein. Gefn. thierb. 331.— Common domestic Hog. Penn. hist. of quad. n. 61. B. Brit. zool. i. 41.

BELLUÆ.

The Common domestic Hog is cultivated almost all over the world, and varies exceedingly in size and colour; there are now vaft droves of them, which have become wild, in the forcits of South America, derived from the European breeds which have been transported to that country. The domestic Hog is usually of a whitish colour, frequently spotted with black or brown, and often entirely yellowish, brown, reddish, ash coloured, or black. It is larger in the temperate regions, and smaller in the hotter parts of the earth, and in those which are very cold; in Tartary it is very large, and of a filvery colour. The ears are longer than in the Wild Hog, sharp pointed, and slouch much forwards.

2. Single-hoofed Hog. - 1. \(\beta \). S. Scrofa dom. monungulus.

Has undivided hoofs on all the feet.

Arist. hist. an. ii. c. 7. Plin. hist. nat. xi. c. 43. Penn. hist. of quad. n. 61. 8.

This variety refembles the common domestic kind in every thing except the folid hoofs; it is found about Upfal in Sweden, and in other parts of the world, and is even mentioned by the ancients.

A. Chinese Hog. -1. B. c. S. Scrofa dom. sinensis.

The back is almost naked, and the belly hangs down almost to the ground.

Sus chinenfis. It. Wyoth. 62. It. fcan. 72. Briff. quad. 75.—Chinefe hog. Penn. hift. of quad. n. 61. y. Forrest, voy. 39.—Javan hog. Kolben, cape. i. 117.

This variety is common in China, in the islands of the Indian Ocean and South Seas, and is found wild in great numbers in New Guinea; it is also now frequently cultivated in several parts of Europe.—It is confiderably fmaller than the common kind, and is ufually of a mixed black and white colour, or black with a flight hoarinefs; the legs are fhort, the tail is very fhort and pendulous, the belly hangs down fo much as almost to touch the ground: The animal is considerably more cleanly than the ordinary Hog; its flesh likewise is reckoned whiter and more favory.

2. Guinea Hog. - 2. Sus Porcus. 2.

Has no briftles; the hinder part of the back is covered with long hairs; the tail hangs down to the ground. Briff. regn. an. 109. n. 4.

Porcus guineenfis. Marcgr. braf. 230. Jonft. quad. t. 46. Raj. quad. 96. Klein, quad. 26.— Guinea hog. Sm. Buff. viii. 239. Brown, jam. 487. Penn. hift. of quad. n. 61. a.

β. Siam Hog.—2. β. S. Porcus siamensis.

The ears are erect and fomewhat pointed, and the tail almost reaches the ground. Sm. Buff. iii. 500. pl. xxi. Penn. hift. of quad. n. 61. 3.

These two animals seem only to be varieties of the Common domestic Hog: The former inhabits Guinea, from whence it has been transported to Brasil; the latter is found in the kingdom of Siam.—Both are smaller than the Common Hog, and the head is less in proportion; the tail is very long and naked; the ears are longish and much pointed; the body is covered with short and shining red hairs, which are longer on the buttocks and about the head.—Dr Gmelin adds to the character of the former variety that it has a kind of bag on the navel; but, as that circumstance is not mentioned by the authors he has quoted, it is here omitted.—T.

779 3. Pecary.—3. Sus Tajassu. 3.

Has no tail: On the hinder part of the back is an open glandular orifice, which difcharges a fetid unctuous liquid.

Aper mexicanus. Briff. quad. iii. n. 6.—Tajaçu, Sus minor, Cochon noir. Barrere, Fr. eq. 161.—Porcus mexicanus. Charlet. ex. 14. Seb. muf. i. t. 111. f. 4.—Porcus moschiferus. Klein. quad. 25.—Sus umbilico in dorso. Aldrov. bis. 939.—Quauhuatl, Quauhioyamatl. Fernand. an. 8.—Quauhtla, Coymatl, Quapizotl, Chuchie, Coscui. Hernand. mex. 637.—Tajassoub, Sanglier. Thevet, cosmogr. ii. 936. b.—Zainus, Saino, Zaino. Nieremb. hist. nat. 170. Jonst. quad. 107. t. 46. Mus. worm. 340.—Tajaçu, Caaigoara. Marcgr. bras. 229. Piso, ind. 98. Tyson, phil. trans. n. 153. p. 359. Raj. quad. 97.—Javari, Paquire, Paquira. Rochesort, ant. 138. Gumill. orin. i. 293.—Pingo. Fermin, surin. ii. 79.—Pecary, Tajaçu, or Mexican hog. Sm. Buff. 271. pl. cxxxii. cxxxiii. Wafer, voy. 222. Des Marchais, voy. iii. 296. Bancr. guian. 125.—Mexican hog. Penn. hist. of quadin. 64.

Inhabits the warmest parts of America, and in some of the West India islands.—It lives in considerable slocks among the woody hills, and is very sierce, yet easily tamed; it does not wallow in mire like the Common Hog, neither does it become so fat: It feeds on fruits, roots, serpents, and reptiles. The sless the Common Hog, already described, and intolerable odour. In general figure this animal resembles the Chinese Hog, already described, and is about three feet long. The ears are short, erest, and pointed; the eyes are rather sunk; the neck is thick and short; the bristles are almost as thick as the spines of a Hedge-hog, of a hoary black colour, and surrounded with several whitish rings; they are longest on the back and ridge of the neck, being almost sive inches in length, on the sides they are shorter, and the belly is almost naked; from the shoulders to the breast is a band or collar of white, which is interrupted on the back; the open gland is situated almost at the rump, on the top of the back, and continually discharges a stinking uncluous ichory sluid, which, when dry, has the slavour of castor. The voice resembles the grunting of the Common Hog, but is stronger and harder, especially when angry. The tusks of the upper jaw scarcely project when the mouth is shut, and those of the lower jaw are entirely covered.

B. Leffer Pecary .- Sus Tajassu minor.

Is a good deal fmaller than the former, and of a reddish colour. Sm. Buff. v. 277.

Inhabits Guiana.—The Count de Buffon, on the authority of Mr de la Borde, describes two species or varieties of the Pecary, as inhabiting Guiana, in South America; the larger, which is the Pecary already described, is black, with white hair on its chops, and weighs about a hundred pounds;

the smaller, which is the one now in question, is of a reddish colour and weighs fixty pounds. Both, it would appear, have the dorsal gland, and agree much in manners, but the smaller variety is said to be siercer than the other.

y. Patira.—Sus Tajassu Patira.

Refembles the former, but has a white line along the spine. Sm. Buff. v. 278.

Inhabits Guiana.—This variety is likewise introduced on the authority of M. de la Borde; it is of the same size with the Lesser Pecary, and has a white line along the spine from the neck to the tail; it lives in the forests, not in large herds, but in single families; takes resuge when pursued in hollow trees, and in holes of the earth, and defends itself with great courage against dogs. This animal frequents the marshes, is easily tamed when taken young, but always shews a great antipathy to dogs; the semale brings only two young ones at a birth; the sless is reckoned excellent; and the hair is softer than that of a Common Hog. The proper marks of distinction between these three varieties are not ascertained.

4. African Hog. -4. Sus africanus. 6.

Has only two fore-teeth in the upper jaw.

Cape-verd hog. Penn. hift. of quad. n. 63. Sm. Buff. viii. 241. Lev. muf.

Inhabits Africa, from Cape Verd to the Cape of Good Hope.—The body of this animal is covered with very long and fine briftles, especially about the shoulders, belly, and thighs, where they are of great length; the tail reaches to the first joint of the hind leg, is very slender, and terminates in a large tust; the head is long shaped, with a slender nose, the upper jaw extending far beyond the lower; the ears are narrow, erect, pointed, and tusted with very long bristles at the end: There are only two fore-teeth in the upper, and six in the lower jaw; the tusks are large and very hard, like ivory, those of the upper jaw being very thick, and having the appearance of being cut off obliquely; on each side of each jaw there are six grinders, the most advanced being very large. Mr Pennant supposes this species to be the animal mentioned by Adanson as a Boar of enormous size, peculiar to Africa.

5. Engallo.—5. Sus aethiopicus. 4.

Has no fore-teeth: On each cheek, below the eyes, there is a foft wrinkled hollow, from the under edge of which hangs a large pendent wattle.

Aper aethiopicus, Hartlooper. Pall. misc. 2001. 16. t. 2. Spic. 2001. ii. 3. t. 1. xi. 84. t. 5. f. 7.— Engalla. Meroll. cong. 667. Sorrento, voy. in Church. col. i. 667.—Emgalo, Engulo. Barbot, guin. 487.—Porc sanglier. Flacourt, madagasc. 151.—Sanglier hideux. Damp. voy. i. 405.—Ethiopian hog. Sm. Buff. viii. 241. pl. ccxci. Penn. hist. of quad. n. 62.—African wild boar. Deslandes, in Mart. mem. ac. v. 386. Lev. mus.

Inhabits Madagascar and the hotter parts of interior Africa.—This animal is very fierce, exceedingly swift, and more active, livelier, and more sagacious, than the Common Hog, with which it will not procreate; it is of considerable size, one, which was hardly full grown, measuring four feet nine inches in length; it has a strong, yet not disagreeable odour, resembling the Lamium purpureum, and compared by Vosmaer to new cheese. The body is thick, broad, and almost naked, having

781

782

783

353

a few blackish brown bristles disposed in little bundles; these are more numerous, and longer on the back, and more so between the ears and on the top of the neck, where they form a kind of mane. The head is very large, with a broad depressed muzzle, truncated obliquely inwards, so that the nostrils are not seen unless it be considerably raised; the extremity is very broad, and almost as hard as horn; the mouth is small, and instead of fore-teeth the gums are convex, smooth, and very hard; the under tusks are small, but those above are large and bent upwards out of the mouth; on each side of each jaw there are six grinders; the eyes are small, and are placed near each other, almost at the top of the forehead; immediately below each under eye-lid is a singular wrinkly hollow or sac, of soft, loose, black skin, from the under side of which hangs down on the cheek, a large, broad, slat lobe or wattle, rounded at the lower end; the ears are large, erected backwards, sharp pointed, and lined with long whitish hairs; the tail is slender, slat, covered with hairs disposed in parcels, and reaches only to the bottom of the thighs. This singularly hideous animal burrows under ground, and digs with surprising expedition: It is consounded by Buffon with the preceding species, though remarkably different from it by the singular structure below the eyes, and by the want of fore-teeth.

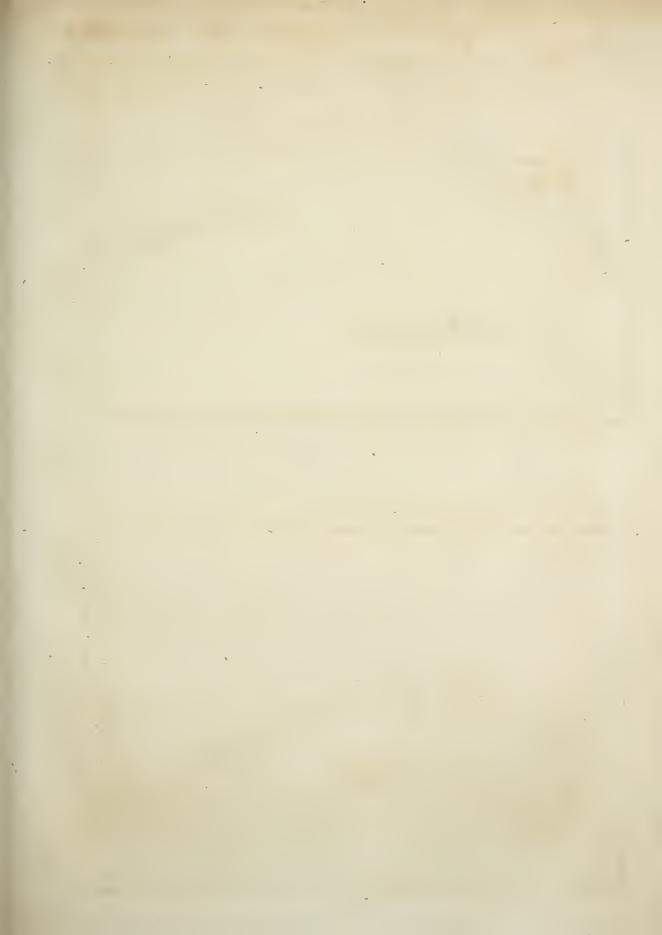
BELLUÆ.

6. Babyroussa.-6. Sus Babyrussa. 5.

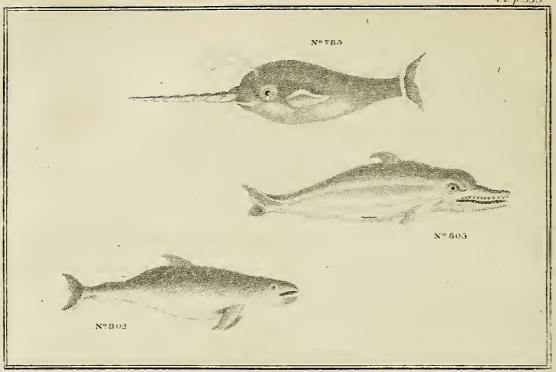
Has two crooked tusks, resembling horns, which pierce through the upper part of the face. Erxleb. mam. 188. n. 5.

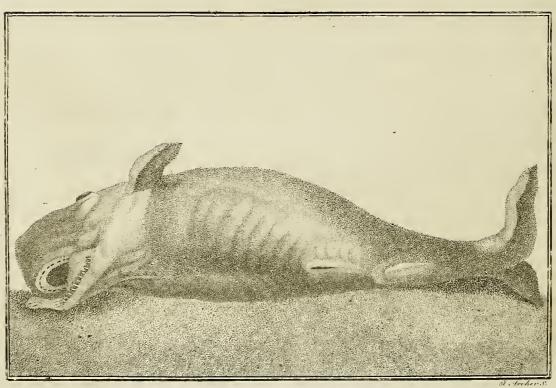
Aper orientalis. Brist. quad. 110. n. 5.—'Y5 τετραπείρως. Aelian. an. xvii. c. 10.—Aper indicus. Plin. hist. nat. viii. c. 52.—Aper cornutus. Calpurn. eclog. 7. v. 58.—Babi-raesa. Seb. must. i. 80. t. 50. f. 2.—Porcus indicus, Babyroussa, Babyrussa, Babiroussa, Babi-roesa. Raj. quad. 96. Klein; quad. 25. Bont. ind. 61. Jacob. must. reg. 5. t. 2. f. 5. Lauss. must. t. 3. f. 28. Valent. amboin. iii. 268.—Strange hogs with horns. Purch. pilg. ii. 1695. v. 566.—Horned hog. Grew, must. 27. t. 1.—Babyroussa. Penn. hist. of quad. n. 63. pl. xiv. f. 1. Sm. Buss. vii. 58. pl. cciii.—Eberhirsch, Hirscheber. Knorr, del. ii. t. κ. 7.

Inhabits the islands of Java, Celebes, Buero near Amboina, and the other islands of the Indian Ocean.—The Babyrousia lives in herds, and feeds on herbs and leaves of trees, but never ravages the gardens and plantations like other swine; it has a very quick scent, and, when pursued, often takes to the water, where it swims and dives with great dexterity; in the forests it is said often to rest itself by suspending the weight of its head, by the crooked horn-like tusks, to the branches of trees. The head is long and narrow, with small, erect, sharp pointed ears, and small eyes; there are four fore-teeth in the upper, and six in the lower jaw, two tusks in each, and five grinders on each side of each jaw; the lower tusks stand near eight inches out of the mouth, pointing toward the eyes; the upper tusks are rooted downwards in sockets which open outwards on the top of the nose, so that they seem horns rather than teeth; they are about twelve inches long, are very much bent upwards, and recurved at the ends; the body is plump and square, having a few weak bristles along the back, but the rest is covered with a short woolly hair, of a grey colour mixed with red and black; the legs are long and slender; the tail is long, usually twisted, and ends in a tust of hair. The sless of this arisenal is reckoned very good.









Nº796

VII. C E T E.

Have spiracles * on the anterior part of the skull; no feet, instead of which they have pectoral fins, destitute of nails; and the tail is horizontally flattened.

This order of Cete ought, from external shape and habits of life, to have been arranged with the class of Fishes; but the illustrious author having adopted the ingenious idea of employing the circumstance of suckling their young as a characteristic mark for a number of animals, all of which have warm red blood propelled by two auricles and two ventricles, found himself forced to include these, which ought otherwise to have been named Cetaceous Fishes. They are not hitherto well known, because living only in the sea, they are difficultly made the subject of observation; even those species of Whales and Cachalots which have long been killed in vast numbers annually, on account of the oil which they produce, are very imperfectly known to naturalists. In general they resemble sishes in the form of their bodies; all have pectoral sins, and a sin-like tail; a small number of species have a dorsal sin, but they are all destitute both of the ventral and anal sins †. They are found in almost every part of the ocean, and the seas which communicate with it, though some species are more peculiarly confined to particular regions, and very sew are found in the Red Sea.

XLV. NARVAL.-44. MONODON. 37.

Has two very long, straight, and spirally twisted teeth, which stick out straight forwards from the upper jaw. The spiracle, or breathing hole, is situated on the anterior and upper part of the skull.

1. Horned Narval .- 1. Monodon Monoceros. 1.

The only species of this genus.

7.85

Monodon. Arted. gen. 78. fyn. 108. Faun fuec. 48. Muf. ad. fr. 1. 52. Muller, zool. dan. 6. n. 44.—Monoceros. Charlet. exerc. pifc. 47. Willoughby, pifc. 42. app. 12. t. A. f. 2. Raj. pifc. Y y 2

^{*} The word fpiracle is employed to denote a kind of pipe, or filtulous opening, on the top of the head, communicating with the nofe, through which the various species blow large quantities of water with great force, by the power of their breath, which likewise issues from the same openings, so that they may be considered as nostrils not situated on the nose or muzzle.—T.

[†] These fins will be described particularly in the class of Fishes. T...

11.—Unicornu marinum. Mus. Worm. 282. 283.—Narhwal. Klein, misc. pisc. ii. 18. t. 2. f. c.—Eenhorn, Narhwal. Anders. isl. 225. Crantz. groenl. 146. Mart. spitz. 94.—Eenhorning, Narhval, Lioorne. Egede, groenl. 56.

Inhabits the northern part of the Atlantic Ocean.—This animal is represented by some authors as measuring from twenty to twenty-two feet in length, while others say that it reaches to forty, or even fixty feet long, and twelve feet broad; it is particularly noted for its horn or horns, as they are called, which are real teeth; of these there are always two in young animals, though the old ones have generally only one, fometimes none. In the specimen belonging to the Edinburgh Museum there is only one, which is placed rather on one fide, and no vestige of a socket for the other; but then it is a general fast that fockets become obliterated after the teeth which grew from them are destroyed. From this circumstance of only one tooth being usually found, the animal has acquired the name of Monodon, Unicorn Fish, or Sea Unicorn. This extended tooth perforates the upper jaw, and is a very powerful weapon of offence; there are even many instances of the tooth having been found in the bottoms of ships which returned from the northern seas, probably owing to the Narval having mistaken the ship for a Whale, and attacked it with such fury as not to be able to get out the weapon from the wood. The head is finall, with very minute eyes; the back has no fin, and the two fins on the breast are very small; the skin is white with black spots on the back, and has a great quantity of blubber underneath. The Narval fwims with very great velocity, and, though by no means scarce in the seas about Greenland, is very seldom killed.

XLVI. W H A L E.—45. B A L Æ N A. 38.

Has no teeth, instead of which the upper jaw is provided with horny laminae, called Whale-bone. The spiracle has two openings on the top of the head.

1. Common Whale .- 1. Balaena Mysticetus. 1.

The nostrils, on the fore part of the head, are much contorted, and the back has no fin. Arted. gen. 76. Syn. 106. Faun. succ. 49.

a. Greenland Common Whale. - B. Mysticetus groenlandica.

Of a blackish colour on the back and white on the belly. Briss. regn. an. 347. n. 1.

lour.

TATATIATIATAT.

787

788

β. Iceland Common Whale .- I. β. B. Myflicetus islandica.

Of a black colour with a whitish gloss. Briff. regn. an. 350. n. 2.

Nord-kapper. Egede, groenl. 53. Anderf. ifl. 219. Crantz. groenl. 145.

y. Larger Common Whale. - 1. y. B. Mysicetus major.

Has no spiracle. Raj. pisc. 16.

Inhabits the Arctic Seas, especially about Greenland and Spitzbergen.—The Common Whale is of enormous bulk, measuring from fifty or fixty, to feventy, eighty, and even an hundred fect long; it fivims with immenfe velocity, but, notwithftanding its vaft fize, having no weapons either of defence or offence, it is exceedingly fly and timid. It lives chiefly on the Cancer pedatus, and oculatus, Argonauta arctica, and Clio bitentaculata; the fecond, or Iceland, variety, which is fmaller and more flender than the Greenland kind, feeds on Medufae and Clupeae *: It is probable that the defcription of the third variety, or Larger Common Whale, as being without any spiracle, which is admitted by the celebrated Ray on the authority of Sibbald, is either totally erroneous, or founded on miftake, as it differs fo completely, not only from the general analogy of the Whale genus, but from the whole cetaceous order. The female Whale has two proportionally finall paps fituated on the abdomen, near the vagina, which she has the power of retracting; she is supposed to go nine or ten months with young, and produces mostly one, feldom two, at a time, which she fuckles and takes care of with great affection. The flesh of the Whale is extremely dry and insipid, except about the tail, which is more juicy, yet still very tasteless; between the skin and slesh the whole body is furrounded with a vaft layer of fat or blubber, of which feventy or eighty buts, or large barrels, are fometimes procured from one Whale; they are hunted with great attention, on account of this blubber, for the fake of a coarse oil which is extracted from it, and it appears that this trade was confiderable even in the time of Ifidore and Vincentius; it is mentioned as common and very profitable on the French coast by Brito, a poet of the twelfth century. The horny laminae, which are found in the upper jaw of the Whale, are likewise a valuable article of commerce, under the name of Whale-bone; these, from frequent use, serving to catch the food of the animal, are split at the margin and the extremity into long, thick briftles; there are about feven hundred laminae of this fubftance in the mouth of each individual, and, when the animal is full grown, the middle lamina, which is the longest, measures from eighteen to twenty feet long.

The head of the Common Whale is nearly one third part of the animal, being flattish on the upper part, and surmounted by a tubercle or projection, in which the spiracle, or breathing pipe, is situated; the mouth is very large, and stretches far backwards, almost as far as the eyes, in form of the letter f; the lower jaw, especially about the middle, is very broad; the tongue is very soft, being composed almost entirely of fat; it is of a white colour, spotted with black at the sides, and adheres by its under surface to the lower jaw; the eyes are placed at a great distance from each other on the sides of the head, over the entrance to the ears, and are very little larger than those of an Ox; the skin is about an inch thick, and the scars skin about the thickness of parchment; this last is very smooth, seldom entirely black, or variegated with black and yellow, and very rarely of a white co-

* All these animals, belonging to the succeeding classes, will be hereafter particularly described in the course of this work.—T.

lour. The tail is horizontally flattened and flightly divided into two lobes, from the middle of which a fhort, and fomewhat fharp, angular ridge runs up the middle of the back, but without any proper dorfal fin.

789

2. Fin Whale .- 2. Balaena Phyfalis. 2.

Has a double opening to the spiracle on the middle of the fore part of the head; and a fost sin on the hinder part of the back. Art. gen. 77. syn. 107. Faun. suec. 50.

Balaena, having three fins, and a fmooth belly. Briff. 352. n. 5.—Balaena, without teeth, having a narrow body and a fin on the back. Raj. pifc. 9. Klein, mifc. pifc. 13.—Phyfalus bellua, Phyfeter. Gefn. aqu. 851.—Phyfeter. Plin. hift. nat. ix. c. 4. xxxii. c. 11. Jonft. pifc. 217. Charlet. ex. pifc. 47. Sibb. Scot. an. 23. Willoughb. pifc. 41.—Finne-fifke. Egede, groenl. 48.—Finnfifc. Mart. fpitzb. 125. t. Q. f. c. Anderf. ifl. 219. Crantz. groenl. 145.—Fin Whale. Penn. arct. zool. fup. 101. n. 53.—Fin-fifh. Brit. zool. iii. n. 18.—Fin-backed Whale. Dudley, phil. tranf. abr. vii. 425.

Inhabits the Atlantic, both on the American and European coasts.—This species is equally long with the Common Whale, but not above a third, or even fourth, part of the circumference, and produces vastly less blubber; the opening of the mouth is larger; the horny laminae, or Whale-bone, are shorter, and of a bluish colour; the sless better tasted; and it throws the water from the spiracles with greater force. The upper part of the body of this animal is of a clear brown colour, and the lower parts white; the lips are brown and resemble a twisted rope; on the lower part of the back, near the tail, there is a straight, soft, sharp pointed sin, between three and four feet long, without rays or bones, from which circumstance the English name of the species, to distinguish it from the Common Whale having no back-sin, is derived. From the violence with which this species throws out the water from its spiracle, it is supposed to be the $\Phi_{\nu \varsigma \alpha \lambda o \varsigma}$ of the ancients. This species feeds on small sishes of the Clupea, Scomber, and other genera: It is neglected by the Whale sishers, both on account of its great sierceness and the small quantity of blubber which it affords; even its appearance in the Whale seas is disliked, as it is supposed to drive away the common species, which is so much in request.

790

3. Scrag Whale .- 3. Balaena Boops. 3.

Has a double pipe on the fnout, and a horny protuberance on the extremity of the back. Art. gen. 77. fyn. 107.

Balaena, having three fins, a fharp fnout, and the belly longitudinally wrinkled. Briff. regn. an. 355. n. 7.—Balaena, having three fins, a fharp fnout furnished with nostrils, and several folds of the skin on the belly. Raj. pisc. 16.—Jubartes. Klein, misc. pisc. ii. 13.—Jupiter sisch. Anders. isl. 220. Crantz, groenl. 146.—Pike-headed Whale. Penn. Brit. 2001. iii. n. 17. Arct. 2001. sup. 101. n. 52.—Scrag Whale. Dudley, phil. trans. abr. vii. 425. Sibb. Scot. an. 23.

Inhabits both the northern and fouthern oceans.—This species is about forty-fix feet long, and twenty feet in circumference, at the thickest part, where the breast sins are placed. The upper parts of the body are black and very smooth; the under parts are white, and have the skin raised into many longitudinal folds; the head is oblong, with a somewhat sharp snout; the tongue resembles that of an Ox in sigure, and is near sive feet long; the eyes are not larger than those of an Ox, and are placed near the corners of the mouth.

792

793

4. Humped Whale .- 4. Balaena gibbofa. 5.

Has no back fin, but the back is hunched.

Hump Whale. Penn. arct. zool. sup. 102. n. 54.—Hump-back Whale. Dudley, phil. trans. abr. vii. 425.

α. Single-humped Whale. - 5. β. B. gib. gibbo unico.

Has one hunch on the lower extremity of the back.

Balaena Novae-angliae, having two fins and a fingle hunch on the back. Briff. regn. an. 351. n. 3.—Balaena, with one hunch on the back near the tail. Klein, mifc. pifc. ii. 12.—Pflokfifch. Anderf. ifl. 224. Crantz, groenl. 146.

Inhabits the feas near the coast of New England, in North America.—The hump on the lower part of the back is described as exceeding the fize of a man's head.

B. Six-humped Whale. - 5. a. B. gib. gibbis fex.

Has fix humps on the back.

Balaena, having two breast fins, and fix hunches on the back. Briss. regn. an. 351. n. 4. Erxl. mam. 610. n. 5.—Balaena macra. Klein, misc. pisc. ii. 13.—Knotensisch, Knobbelsisch. Anders. isl. 225. Crantz, groenl. 146.

This variety refembles the Common Whale, except in having fix large knobs or hunches along the back, and the horny scales in its mouth are of a white colour. We have no account of any other circumstances in its description, manners, or food; nor of the seas which it frequents.

5. Broad-nosed Whale. - 5. Balaena Musculus. 4.

Has a double pipe on the fore-head, and a very broad under jaw. Art. gen. 78. fyn. 107 fp. 106.

Balaena, with three fins, a round fnout, and wrinkled belly. Raj. fyn. pifc. 17. Sibb. Scot. an. 24. Briff. regn. an 353. n. 6.—Φαλένα, Balaena, Balena, Balein, Capidolio. Bellon, aquat. 4. 6. Aldrov. pifc. 676.

Inhabits the Scottish seas.—This species is sometimes seventy-eight feet long, and above thirty-five in circumference; the lower jaw is semicircularly turned at its extremity, and is much broader than the upper jaw, which ends in a sharp shout; the opening of the mouth is enormous, and contains a number of laminae of black Whale-bone, but the longest do not exceed three seet; the spiracle or blowing pipe is of a pyramidal form, divided into two orifices by a septum or partition, and is situated on the fore-head; the back is black, and surnished with a soft rayless fin; and the belly, which is white, has a number of folds of the skin. This Whale is very destructive to the herring shoals which visit the Scottish coast, and which, with proper exertion, might prove an immense source of wealth and industry to Britain; perhaps it may not be improper to mention, that, from long experience, the Norwegians are so thoroughly convinced of the benefits derived to their sisheries, by the Whales driving the fish into the creeks and firths on their coast, that they are protested by the law, under very severe penalties.

795 -

796

6. Beaked Whale. - 6. Balaena rostrata. 6.

Has a foft fin on the back, and the nose is peaked.

Balaena rostrata minor. Muller, zool. dan. 7. n. 48. Chemniz, beschr. naturs. berl. iv. 183. Klein, misc. pisc. ii. 13.—Beaked Whale. Penn. Brit. zool. iii. n. 20. Arct. zool. sup. 102. n. 55.—Bottle-nose Whale. Catesby, app. 32.

Inhabits the Norwegian feas.—This fpecies has a confiderable refemblance to the Scrag Whale, especially in the form of the snout; but, according to Chemniz, it has no Whale-bone in the mouth, which has one tooth on each side of the upper jaw, from which circumstances it more properly belongs to the succeeding genus, though in that the teeth are placed in the lower jaw. It is of a very clear black colour, and about twenty-sive feet long; swims with amazing velocity, and appears to have a very acute sight; the lower jaw is considerably thicker than the upper, and the snout is very long and sharp.

XLVII. CACHALOT.—46. PHYSETER. 39.

Has teeth in the lower, and none in the upper jaw.

1. Lesser Cachalot .- 1. Physeter Catodon. 1.

Has no fin on the back; the blowing pipe is fituated on the fnout. Art. gen. 78. fyn. 108.

Cetus minor, having two fins, and the pipe on the fnout. Briff. regn. an. 361. n. 4.—Balaena minor, having teeth in the lower jaw, without any fin or fpine on the back. Raj. pifc. 15. Sibb. Scot. an. 24.

Inhabits the northern Atlantic.—This species differs from the Scrag Whale by wanting the horny excrescence on the back, and in having teeth in the lower jaw, but like it the spiracle or pipe is placed on the snout, like nostrils; it is about twenty-four feet long, and has a round shaped head, with a small opening, or rictus, of the mouth.

2. Blunt-nosed Cachalot .- 2. Physeter macrocephalus. 2.

Has no fin on the back; the blowing pipe is fituated on the nape of the neck.

Catodon, with the pipe on the neck. Art. gen. 78. fyn. 108.—Blunt-headed Cachalot. Penn. BRIT. 2001. iii. n. 21. Arct. 2001. fup. 102. n. 57.—Spermaceti Whale. Dudley, phil. trans. abr. vii. 426.

a. Black Blunt-nosed Cachalot .- 2. a. Ph. macrocephalus niger.

Of a black colour, with a hump on the back.

Cetus, having two fins, of a black colour on the back, and whitish on the belly, with the spiracle on the neck. Briss. regn. an. 357. n. 1.—Cete, named Pot-Walsish, by the Hollanders, and Balaena major macrocephala, having teeth only in the lower jaw. Raj. pisc. ii. and 15.—Balaena. Jonst. pisc. 215. t. 41. 42. Willoughb. pisc. 41. t. A. 1. f. 3.—Cete admirabile. Clus. exot. 131.—Cetus dentatus. Mus. worm. 280. Charlet. ex. pisc. 4. Sibb. Scot. an. 23.—Cachelot. Klein, misc.

misc. pisc. ii. 14. Egede, groenl. 54. Anders. isl. 232. Crantz, groenl. 148.—Spermaceti Whale. Brown, jam. 459.

β. White Blunt-nosed Cachalot .- 2. β. Ph. macrocephalus albicans.

Of a whitish colour, with a smooth back.

MAMMALIA.

797

798

799

Balaena albicans, Weiss fisch. Klein, misc. pisc. ii. 12.—Cetus albicans. Brist. regn. an. 359. n. 2.—Cetus albus. Raj. pisc. 11.—Hvid fisch, Poison blanc. Egede, groenl. 55.—Weiss sisch. Mart. spitzb. 94.

χ. Grey Blunt nofed Cachalot. - 2. γ. Ph. macrocephalus cinereus.

Of a blackish ash colour, with a hump on the back.

Cetus Novae-angliae, having two fins, the pipe on the neck, and a hump on the back. Briff. regn. an. 360. n. 3.—Balaena Dudleji. Klein, mifc. pifc. ii. 15.

The black variety of this species is found in the European seas, the White in Davises Straits, and the Grey on the coasts of New England.—The black variety grows to above fixty feet long, and thirty-fix feet in circumference; the head is exceedingly thick, and the lower jaw, which is smaller than the upper, has forty-fix teeth, in two rows, which rise between two and three inches above the gums, and are received into an equal number of hollows, or sockets, in the upper jaw, when the mouth is shut; the semale teats are retractile. The substance improperly named spermaccti is procured from this animal, being contained in particular cavities of the bones of the head, which are covered with the common integuments or skin; and from this variety, or another of the same species, the finer Whale oil, called spermaceti oil, or white oil, is extracted; hence it is found in the southern seas along the coasts of Brasil, Patagonia, and in the Pacific Ocean, in which places a very extensive sistery is now carried on from Britain. According to Dr Schwediauer, Phil. Trans. 1783, P. i. n. 15. the persume called ambergreasse is the hardened saeces, or scybala, ejected from this animal when sick, large quantities having been found in its intestines. The same gentieman informs us, that it feeds chiefly on the Eight-legged Cuttle-sish, or Sepia octopodia.

The white variety refembles the Common Whale, but has the head of a sharper form; it is about sifteen or fixteen feet long, and of a yellowish white colour: The teeth are compressed, somewhat crooked inwards, and rounded at the ends.

The grey variety grows to fixty, and even feventy, feet long, by thirty or forty in circumference; has a very large head, with very finall eyes; the lower jaw is much narrower than the upper, and is furnished with a confiderable number of teeth, which are received into fockets of the upper jaw when the mouth is shut. This variety agrees with the first in having a hump on the back, which rifes about a foot above the general surface.

3. Sharp nosed Cachalot .- 3. Physeter microps. 3.

Has a long fin on the back, and the upper jaw is longer than the under. Art. gen. 74. fyn. 104.

a. Hook-toothed Sharp-nosed Cachalot .- 3. a. Ph. micr. falcidentatus.

The teeth are sharp, and considerably bent.

Vol. I. Z.z/ Cetus,

802

Cetus, having three fins, with fharp, arched, and hooked teeth. Briff. regn. an. 363. n. 6.—Balaena major, having a fin or fpine on the back, and teeth, which are hook-fhaped, in the under jaw. Raj. pifc. 15. Sibb. Scot. an. 24. Klein, pifc. ii. 15.—Dritte Cachelotte. Anderf. ifl. 248.

800 β. Straight-toothed Sharp-nosed Cachalot.—3. β. Ph. micr. rectidentatus.

The teeth are sharp and straight.

Cetus, having three fins, with fharp straight teeth. Briff. regn. an. 362. n. 9.—Zweyte Cachelotte. Anders. ifl. 246.

Inhabits the northern Ocean.—The head of this species is enormously large, with very small eyes; the lower jaw is armed with a number of teeth, which, when the mouth is shut, are received into an equal number of sockets in the upper jaw; the skin is very smooth.

The former variety is of a blackish brown colour, and grows to seventy feet long; it has forty-two round teeth, which are a little compressed sideways, thicker in the middle, and bent in form of a hook; the blowing pipe is placed a little farther forwards than the middle of the snout; the back fin is longish and sharp pointed, so as to have the appearance of a spine. This animal sometimes chases the Seals with such eagerness as to run itself on shore.

The latter variety is of a blackish colour on the back, and whitish on the belly, having a very high hump on the upper part of the back, and the back sin is placed very near the tail; the head is almost half the length of the body, having very bright yellowish eyes; the tongue is small and sharp pointed; the teeth are thick, straight, and sharp at the points, and set in the jaw like the teeth of a faw. This animal sometimes grows to eighty, or even an hundred, seet long.

4. High finned Cachalot. - 4. Physeter Tursio. 4.

Has a very long fin on the back, and the ends of the teeth are flat. Art. gen. 74. fyn.

Cetus, having three fins, and the teeth flat at the ends. Briff. regn. an. 364. n. 7.—Balaena macrocephala, with three fins, and having teeth in the lower jaw, which are very little bent, and end in flat furfaces. Raj. pifc. 16. Sibb. Scor. an 24. Klein, mifc. pifc. ii. 15.

Inhabits the northern ocean.—This species sometimes grows to an hundred feet long; the back sin is very long, sharp pointed, and erest, so as to resemble the mast of a ship in some measure; the blowing pipe is placed on the fore-head; the teeth are slightly bent, and have their ends slattened: In other respects this animal has considerable resemblance to the preceding species.

XLVIII. DOLPHIN.-47. DELPHINUS. 40.

Has teeth in both jaws. The pipe is placed on the anterior and upper part of the head.

1. Porpoise .- 1. Delphinus Phocaena. 1.

The body is of a somewhat conical form, with a broad back, and bluntish snout. Art. gen. 75. syn. 104. Faun. succ. 51.

Delphinus

CETE.

Delphinus phocaena. Briff. regn. an. 371. n. 2. Bloch, fifch. deutschl. ii. 119. t. 92.—Tursio. Plin. hist. nat. ix. c. 9. Bellon, aqu. 15. Rondel. pisc. 474. Schonev. ichth. 77. Klein, misc. pisc. ii. 26. t. 2. A. B. 3. B.—Фокаева, Tursio, Marsouin. Bellon, aqu. 16.—Phocaena. Rondel. pisc. 473. Gesn. aq. 837. Aldrov. pisc. 719. f. p. 720. Jonst. pisc. 221. t. 41. Charlet. ex. pisc. 48. Sibb. Scot. an. 23. Willoughby, pisc. 31. t. A. 1. f. 2. Raj. pisc. 13. Rzacz. pol. aust. 245. Klein, misc. pisc. i. 24.—Meerschwein, Tunin. Mart. spitzb. 92. Anders. isl. 253. Crantz, groenl. 151.—Niser, Marsouin. Egede, groenl. 60.—Delphin, Nisen. Gunner. act. nidros. ii. 237. t. 4.—Porpesie. Penn. Brit. 2001. iii. 25. Arct. 2001. app. 102. n. 60.

Inhabits the European ocean and the Baltic.—The Porpoise is of a bluish black colour on the back, and white on the belly; the snout is bluntish; the eyes are very small, and the entrance to the auditory canal is placed very near them; between the eyes the semilunar orifice of the spiracle, or blowing pipe, is situated, with its horns standing forwards; each jaw contains forty-six small sharp pointed teeth; the penis issues from a narrow longitudinal opening near the navel, and directly under the situation of the back sin; and the anus is placed between that and the tail, which is somewhat divided into two lobes. The whole length of the animal varies from five to eight feet. This animal swarms in great numbers in some parts of the narrow seas, swimming in herds, sometimes in regular lines, very slowly, and tumbling in the water, at other times darting with vast velocity in an irregular manner: It feeds on fish and sometimes on seals.

B. White Porpoise. - D. Phocaena albus.

Of a white colour.

803

804

805

Moine de mer. Bomare, dict. d'hift. nat. voce Palein.

Inhabits the river St. Lawrence.—This variety has a loose plait of the skin behind the head, which the French in Canada suppose to have some resemblance to a monk's cowl.

y. Brown Porpoise. - D. Phocaena suscus.

Of a brown colour.

Pourfille. Bomare, dict. d'hist. nat. v. Balein.

Inhabits the river St. Lawrence.

2. True Dolphin .- 2. Delphinus Delphis. 2.

The body is oblong and roundish, and the snout narrow and sharp pointed. Art. gen. 76. syn. 105. Briss. regn. an. 369. n. 1.

Δελφις. Arift. hift. an. i. c. 5. ii. c. 9. iii. c. 1. 7. 16. iv. c. 9. 10. ix. c. 74. Aelian. an. i. c. 18. ii. c. 6. v. c. 6. viii. c. 3. x. c. 8. xi. c. 12. 22. xii. c. 6. 45.—Delphinus. Plin. hift. nat. ix. c. 7. 8. xi. c. 37. Bellon. aq. 7. f. p. 9. 10. Rondel. pifc. 459. Gefn. aq. 380 f. p. 381. Aldrov. pifc. 701. 703. 704. Jonft. pifc. 218. t. 43. Muf. worm. 288. Charlet. ex. pifc. 47. Willoughb. pifc. 28. t. A. 1. f. 1. Raj. pifc. 12. Rzacz. pol. auct. 238. Klein, mifc. pifc. ii. 24. t. 3. f. A.—Porcus. marinus. Sibb. Scot. an. 23.—Delphin. Anderf. ifl. 254. Crantz. greenl. 152.

Inhabits the European and Pacific oceans.—This animal is black on the back and white on the belly; it is longer and more flender than the Porpoife, but greatly finaller than the Grampus, mea-

furing nine or ten feet in length by two in diameter; the fnout is long, and fomewhat sharp, with a broad transverse band, or projection of the skin, on its upper part; the opening of the mouth is very extensive, reaching almost to the thorax, and contains forty teeth, twenty-one above and nineteen below, which are above an inch long, conical at their upper ends, sharp pointed, a little bent inwards, and placed at some distance from each other, so that, when the mouth is slut, they lock into each other. The Dolphin swims with great velocity, and preys on fish; it is sometimes seen adhering to Whales, when they leap out of the water; it is naturally straight, and only assumes the crooked form, given by painters, when leaping.

806

3. Grampu's. - 3. Delphinus Orca. 3.

The nose is flat and turned upwards; the teeth are broad and serrated. Mantiss. mam. ii. 523. Faun. suec. 52. Art. gen. 76. syn. 106. Gun. act. nidros. iv. 110.

Delphinus Orca, having blunt teeth, and one fin on the back. Briff. regn. an. 373. n. 4.—Balaena minor, having teeth in both jaws. Sibb. Scot. an. 24. Raj. pifc. 15.—Orca. Plin. hift. nat. ix. c. 6. xxxii. c. 11. Belon. aq. 16. f. p. 18. Rondel. pifc. 483. Gefn. aq. 748. Schonev. ichth. 53. Aldrov. pifc. 697. f. p. 698. Jonft. pifc. 217. Charlet. exerc. pifc. 47. Willoughb. pifc. 40. Raj. pifc. 10. Klein, mifc. pifc. ii. 22. t. 1. f. 1. Steller, Camtschatc. 104.—Wagnhyalur, Hualhund. Mus. worm. 279.—Buts-kopf. Mart. spitzb. 93. Anders. iil. 252. Crantz. groenl. 151.—Buts-kopper. Egede, groenl. 56.—Grampus. Penn. Brit. 2001. iii. n. 26. Arct. 2001. app. p. 102.—Killer. Catesby, app. 32. Dudley, in phil. trans. abr. vii. 428.

8.07

β. Sword Grampus.—3. β. D. Orca ensidorsatus.

The nose seems truncated; the teeth are sharp pointed; on the back is a very long, sword-like, spine, or bony sin. Briss. regn. an. 372. n. 3. Mull. zool. dan. 8. n. 57.

Schwerdt fisch. Anders. isl. 255. Crantz. groenl. 152. Mart. spitzb. 94.—Sword fish. Catesby, app. 32.—High-sinned Cachalot. Penn. Brit. 2001. iii. n. 23. Arct. 2001. app. p. 102.

Inhabits the European feas, the Atlantic, towards the Antarctic Pole, and Davises Straits.—This is the largest species of the genus, being twenty-four or twenty-five feet long, and from ten to thirteen feet in diameter, where thickest; it is black on the back, and white on the belly; the lower jaw is much larger than the upper, and forty blunt teeth are contained in both jaws, arranged at such distances as to receive each other into the intervals, when the jaws are shut; the nose is turned upwards; the eyes are very small; the spout-hole is on the top of the head, and has two orifices. The spine, or bony sin, on the back of the Sword Grampus, is often six feet long; it is broader at the base, and resembles a seymeter or bent sword, being, however, covered with the common skin of the back.

The Grampus is a bitter enemy to the Whales; great flocks of them attack the largest Whales, which they fasten round like so many Bull-dogs, making them roar with pain, and often kill and devour them. The Grampus likewise carries on a constant war against the Seals, which it pushes off from the rocks into the sea by means of its long back sin. They likewise feed on fish of the Flounder genus.

808

4. Beluga. - 4. Delphinus leucas. 4.

Has a blunt conical fnout fomewhat turned downwards; and no back fin. Pall. It. iii. 84. t. 4. Briff. regn. an. 374. n. 5.

Beluga.

Beluga. Penn. fyn. of quad. 357. Arct. zool. i. 182. D'. app. p. 103.—Bieluga. Stell. Camtsch. 106.—Witt fisch, Weiss sisch. Anders. isl. 251. Crantz, groenl. 150.

Inhabits the feas near the Arctic Pole, and the river St. Lawrence.—This species forms a connection between the Cetaceous fishes and quadrupeds, through the genus of Walrus or Trichechus, having the general fish form and spout-hole of the former, while the pectoral fins have each the rudiments of five toes, the bones of which may be felt through the skin, and form five fensible projections outwardly. The Beluga lives mostly in families of five to ten together, in the gulphs or firths, at the mouths of large rivers, especially the St. Lawrence, the Oby, and the Dwina, going up generally as far as the tide reaches, at certain times of the year, when they are killed in great numbers, either by means of harpoons or ftrong nets, for the fake of their oil, and for their fkins, of which a firong kind of leather, faid to be musket proof, is manufactured. The skin is very smooth, slippery, and of a beautiful white colour; but, when young, it is dufky, and even blackifu. The whole animal never exceeds eighteen feet long, is thicker in the middle, and grows narrower towards both ends. The head is fmall, and oblong, with very fmall eyes, which are rounded and prominent; the fpout-hole is placed on the fore-head, and is divided into two, internally, near the pallate, by a feptum or partition; on each fide of each jaw there are nine short bluntish teeth. The tail is cartilaginous, and is divided into two lobes; by bending this under its belly, like the tail of a lobster, it gives fuch fprings, while fwimming, as to go through the water almost with the velocity of an arrow. The females have two paps, which are at times found full of white milk. The male organ is about three cinches long, and nearly the fame in diameter, having neither cartilage nor bone in its fubftance like Ethose of the other species of the order.

INDEX



TOTHE

M A M M A L I A.

Aethiops, cercopithecus, 67 Abeffinicus, bos taurus, 335 torquatus, ib. 340 fciurus, 260 , simia, ib. Abietum, martes, 177 torquata, ib. Ablavos, 311 Afer, homo, 45 Abysfinian hyaena, 139 Afra, mustela, 175 Agnus, 325 ox, 335 Afri, 45 fquirrel, 260 Africa, young deer from, Acanthion cristatus, 212 Agouti, 217 218 Acarima, 82 African antelope, 313 316 Acouti, 218 armadillo, 111 Acoutis, ib. deer, 293 Acredula, cricetus, 242 elk, 317 goat, 313 322 Acuary, 192 Aculeatus malaccenfis, porgoat-antelope, 315 hog, 353 fylvestris, ichneumon, 160 pormarmot, bastard, cus, 215 235 Acufchi, cavia, 217 285 Addax, 320 men, 45 Adel ox, 335 mole-rat, 247 Adim-mayan, 328 moufe, male, 193 Ayeioi, Boss, 338 Adive, 141 philander, ib. Aygins, ait, 307 , canis, ib. Sheep, 327 328 , 505, 350 Admirabile, cete, 360 weasel, 261 , '05, ib. wild boar, 253 Aegagropilae, 307 Aguti, 218 Africana, capra gazella, 315 Aegagrus, capra, 320 , cervula, 318 Aegyptiaca, lutra, 159 , gazeila, 313 319 Aegyptius, canis, 135 , dipus, 274 , mustela, 261 Ælg, 296 , ovis, 327 Aerdmanetje, 275 aries, ib. Aha, 302 Africanischer bussel, 339 Aestiva, mustela erminea, Kutu, 319 Ahu, 313 Aestuans fasciatus, sciurus, Africanisches eselpserd, 345 Ai, 101 tygerpferd, ib. Africanus, bos, 339 , fciurus, ib. Aires, 321 Aethiopica, ovis, 327 exiguus, 340 $A_{i\xi}$, ib. Aethiopicus, aper, 353 parvus, io. , canis hyacna, 139 taurus, 335 Alagtaga, 273 , fus, 353 , bubalus, 339

Africanus, bubalus parvus, Alba, liystrix dorsata, 215 , meles, 187 , hircus, 313 , mustela zibellina, 178 , talpa europaea, 200 , fus, 353 , urfus meles, 187 Afrique, petit boeuf de, 340 Agile monkey, 72 , zibellina, 178 Albicans, balaena, 361 filiorum ifrael, 273 , cetus, ib. , phyfeter macro-, american, 218 cephalus, 360 , cuniculus, 217 Albidus, mus pilorides, 227 ., larger, 218 Albipes, antilope, 309 , leffer, 217 , lemur mongoz, 85 Agrarius americanus, mus, , fciurus, 257 , forex, 208 , mus, ib. Albirostro, sciurus niger, Agrestis brachiurus, mus, Albissimus, lepus, 279 major, mus, ib. Albobarbata, fimia filenus, minor, mus, 230 veter, ib. , fus, 350 Albobarbatus, cercopithecus filenus, ib. veter, ib. Albofafciata, funia rubra, 71 Albofasciatus, cercopitheamericana, cavia, ib. cavia, 217 cus ruber, ib. Albus, axis, 300 cunicularis, cavia, ib. cuniculus, ib. , bos bifon, 333 leporina, cavia, ib. , canis lupus, 137 mexicanus, , cervus, ib. 138 vulpes lagopus, 144 Aiatochtli, 111 115 , caftor fiber, 222 , cervus axis, 300 capreolus, 302 ayeros, 307 , cetus, 361 , delphinus phocaena, Alba, cavia paca, 217

Allers animacons amanica	A b-ou 706	A maniana vylna olonav	A seed in the same is a seed
Albus, erinaceus america-		Americanus, vulpes alopex,	
Illis, 209	beeves, 336	142	, cape, 106
, lemur macaco, 86	bison, ib.	Ammon, capra, 330 331	, five-toed, ib.
, lepus, 279	brant fox, 142	europaea, ovis, 331	, four-toed, 105;
, lupus, 137	coney, 218 219	, ovis, ib.	, great, ib.
, mexicanus, 138'		Amphibious hippopota-	, least, 104
, lynx vulgaris, 157	elephant, 116	mus, 347	, little, ib.
, mus americanus fyl-			fealy, 107
vestris, 234	234	ib.	, fhort-noted, 105
, fylvaticus, 230	flying-fquirrel, 266	maculatus, mus, 236	
, zeylanicus, 207	ground-squirrel, 263	, mus, 235	, three-toed, 105
227	hare, 279 280	niger, mus, 236	, two-toed, 104
, sciurus, 256	hedge-hog, 209	paludofus, mus, 235	ANTELOPE, 306
, fibiricus, ib.	lion, 150	terrestris, mus, ib.	, african, 313 316
, vulgaris, ib.	lynx, 158	Anaurinos, ochodona dau-	goat, 315.
, vulpinus, 257	man, 45.	rica, 283	, barbary, 313
, urfus, 185	marmot, 250	Ancients, hyaena of the,	, bezoar, 315
, arctos, 184	maucauco, 116	138 165 166	, blue, 306 .
, maritimus 185	mole, 201	Andira-guacu, 91	, elk, 317
, vulpes lagopus, 144	, red, 202	Anger, 26	, goat, 315
Alèe, 295 296	mountain cat, 93	Anglicana, ovis, 326	, indian, 315 319
Alces, 295	mouse, 227	Anglica, ovis aries, ib.	, mountain, 312
, cervus, ib.	, rustic, 231	Anglicus, canis, 133	, painted, 309
fossilis, cervus, 297	, wild, 217	, bellicofus,	, persian, 311
Alco, 136	night-bat, 93_	ib.	, fcythian, 310
, fat, ibr	ox, 236	Angola sheep, 328	, springer, 312
Algazel, 316	philander, 194	Angolenfis, aries. ib.	, straight-horned, 315
Alicant dog, 132	porcupine, 213	Angora cat, 154	, fwift, 308
Alius, mus, 239	, hairy, 215	, chat d', ib.	, white-faced, 311:
Alliarius, mus, 236	, larger, 213	, chevre d', 321	Antes, 348
Adomne, 141	fquirrel, 265	, goat, ib.	Antigua monkey, 79
Alopex americanus, canis	flag, 299	, lapin d', 282	ANTILOPE, 306
vulpes, 142	tapir, 348	, rabbit, ib.	Antilôpe, 311 319
, vulpes, ib.	urchin, white, 209	Angorensis, capra, 321	albipes, 309
, canis vulpes, ib.	Americana, cavia agouti,	, felis catus, 154	, barbary, 313
enropaeus, canis vul-	218	Animal, anonymous, 145	, bezoar, 316
pes, ib.	, hystrix, 213	anonymum, 319	bezoartica, 315
, vulpes, ib.	, marmota, 250	bezoarticum, 316	, blue, 306
vulpes, ib.	, noctilio, 93	caudimanum, 193	, brown, 319.
Alouata, 75	, talpa rufa, 202	, civet, 166	Bubalis, 314
Alouate, ib.	Americani, 45	ermineum, 181	buselaphus, ib.
Alpagne, 291	Americanus, bos, 336	ignotum, 316	Cervicapra, 319
Alpina, capra, 324	, bilon, ib.	kingdom, 24	, cervine, 314
, marmota, 249	, canis, 136	, classes of,	, chinese, 311
Alpine hare, 279 283	, obcfus, ib.	3.0	, common, 319
marmot, 249	, plancus, ib.	moschiserum, 292	Corinna, 313
Alpinus, glis, ib.	, cuniculus, 218	, musk, 166 292	Dama, 308
, homo, 46	, elephas, 116	zibethi, 166	Dorcas, 312 313
, lepus, 283	, erinaceus albus, 209	Annulata, viverra, 168	, egyptian, 315
Alten, weifars der, 331	, homo, 45	Annulated monkey, 74	, flat-horned, 313
Archergree (a. 26)	, lepus, 279	Anoa, 339	, gambian, 307
Ambergrease, 361	, moschus, 294	, bos bubalus, ib.	Gazella, 316
Amboina philander, 191	, mus, 227	Anomalus, cervus, 304	Gnu, 315
opoffum, ib.	, agrarius, 231	, sciurus, 259	Grimmia, 318
American agouti, 218	, fylvestris, 217	Anonymous animal, 145	, guinea, ib.
armadille 111 112	, albus, 234	Anonymum, animal, 319	gutturofa, 310
badger, 187	, sciurus striatus, 263	Antartic fox, 144	, harnaffed, 317
bat, 93	, tapir, 348	Antarticus, canis, 136	, indian, ib. , indoftan, 309
, common, 92	, urfus, 186	Ant have to	
, dusky-red, 93	, vespertilio, 100	Ant-bear, 104	Kevella, 313

Antilope Kob, 307	Aper mexicanus, 352	Arctopithecus, 101	Armadillo, nine-banded,
Koba, 314	orientalis, 354	Arctos albus, urfus, 184	112
Lerwia, 307	Aperea, 219	fuscus, urfus, ib.	, pig-headed, ib.
leucophaea, 306	, black, ib.	grifeus, urfus, ib.	, feven-banded, 110
Leucoryx, 316	, cavia, ib.	niger, urfus, ib.	, fix-banded, 109
Oreas, 317	nigra, cavia, ib.	urius, ib.	, three-banded, ib.
Oreotragus, 31ò	Ares, 55	variegatus, urfus, ib.	, weafel-headed, 112
Oryx, 315 317	Aprinus, canis laniarius,	Arcucanus, camelus, 290	Armenta, 336
picta, 309	135	Arenarius, cricetus, 244	Arnee, ib.
pygarga, 311	Aquatic shrew, 202	Argali, 331	, bos, ib.
pygmaea, 318	Aquaticus major, canis, 131	, corfican, ib.	Arrow fquirrel, 268
recticornis, 315	134	, fiberian, ib.	Artois dog, 132
, red, 308	, inus, 235	vulgo dicta, ib.	Arvalis, mus, 238
redunca, ib.	minor, canis, 131	Argentata, fimia, 22	nigricans, mus, 239
, royal, 318	multifulcus, fus, 348	Argentatus, fagoinus, ib.	Ash coloured cercopithecus,
Rupicapra, 307	, mus, 204 228 235	Argentea, fimia, ib.	69
Saiga, 309	, rattus, 235	Argenteus, sciurus vulgaris,	dog, 138
faltans, 312	fagax, canis, 131	256	mouse, 253
fcripta, 317	, forex, 202	Argentoratensis, glis, 242	profimia, 87
, fcythian, 310	Aquatilis, canis, 134	, marmota, ib.	Азнкоко, 285
fcythica, ib.	, mus, 204	Aries, 325	Aflikoko, 286
, fenegal, 314	Arabata, 75	africana, ovis, 327	, cape, 285
Strepficeros, 319	Arabiae, ovis, 329	anglica, ovis, 326	, fyrian, 286
, striped, ib.	Arabian camel, 287 288	angolensis, 328	Afiaticground-fquirrel, 262
fubgutturofa, 311			
	jerboa, 273	barbata, ovis, 330	hedge-hog, 210 211
fylvatica, 318	Arabica, ovis, 329	bucharica, ovis, 329	men, 45
Tragocamelus, 30	platyura, ovis, ib.	capensis, ovis, ib.	mole, 203
30	9 Arabicus, camelus, 287	cretensis, 330	Asiatica, talpa, 203
, white-footed, 309	Αςαβιος, καμηλος, ib.	guineenfis, 328	Asiatici, 45
, white-faced, 312	, 015, 329	, ovis ib.	Asiaticus, homo, 45
Antiquorum, hyaena, 13	8 Arabifches fchaaf, 329	hyspanica, ovis, 327	, sciurus striatus, 262
16		jubata, ovis, 330	Afinus, 343 344
Apara, 108	ib.	kirgificus; 328 329	biformis, 345
APE, 54	Arabum, lidmee, 320	Ianiger, 325	, equus, see Equus
, barbary, 58	Αξαχωτοις, βοες, 338	laticaudata, ovis, 328	Afne, 343 344
, beardlefs, 78	Araneus, forex, 205 208	longicaudata ovis, 329	fauvage, 343
, black, 68	Arctic bear, larger, 185	mermorus, 291	Aspalax, 203
, dog-headed, 58 83	dog, 144	nana, ovis, 326	myotalpa, 247
, egyptian, 63	fox, 143	, orientalis, πλατυκέζως,	A1s, 343 344
, great, 55 57	, bluith, 144	. 329	, domestic, 344
, hoary, 64	, white, ib.	, ovis, 325	, half, 343
, hog-faced, 59 61	walrus, 117	pilofus, 327	, he, 344
, leffer long-armed,	7 Arcticus cinereus, forex,	πλατυπέςως orientalis,	, fhe, ib.
, long-armed, ib.	206	329	, wild, 343 345
, red, 75	, forex, ib.	polycerata, ovis, 327	Aftapanick, 266
, fhort-tailed, 59	, urfus major, 185	ruftica, ovis, 326	Attarfoak, #25
, and bearde		steatopyga, ovis, 328	Auerochs, 333
	50 Bobac, 250	Strepticeros, 330	Aurea, talpa, 203
, finall, 72	Citillus, 252 253	Arietinis, rupicapra corni-	, fibirica, ib.
, tufted, 60	Empetra, 251	bus, 331	Aureus, felis catus, 155
, white, 64	Gundi, 254	ARMADILLO, 108	Auriculus erectis, erinaceus,
Apedia, papio, 59	lrudfonia, ib	Armadillo, 109 111	
	794 407		Auritus arinasaus 210
, fimia, ib.	Marmota, 249	, african, 111	Auritus, erinaceus, 210
Apella, fapajus, 77	maulina, 254	, american, III II2	vespertilio, 93
, fimia, ib.	Monax, 250	, eight-banded, 110	Aurochs, cape, 340
Aper, 349	, Mus, ib.	, four-banded, 109	Australis, canis vulpes, 144
aethiopicus, 353	pruinofa, 252	, largest, 112	, petaurus, 269
cornutus, 352		, leverian, 111	, trichechus mana-
indiana 274	Suflica, 252 253		
indicus, 354	Zemni, 252	, long-tailed, 112	tus, 119
Vol. I.	A	aa	

Avellanarius, mus, 271	Badger, white, 187	Baralou hind, 304	Bat, mouse-coloured, 93 94
, fciurus, 272		Baranni, kameuni, 331	, new-york, 99
Avellanarum, mus, 271	Badjing, 262	, ftepnie, ib.	, peruvian, 93
, major, ib.	, fciurus, ib.	Barbara, mustela, 175	, pouch, 98
, minor, 272	Badius, Cercopithecus, 74	Barbaresque, 262	, purfe-winged, ib.
Aviarius, canis, 134	, Homo, 46	Barbarian fquirrel, ib.	, reddish, 92
Avicularius, canis, ib.	Baer, 184	Barbarie, vache de, 314	, ftriped, 96
Axis, 300	, weisse, 185	Barbarus, mus, 234	, fabuda, 91
albus, ib.	Baerenbeiffer, 132	Barbary antelope, 313	, fenegal, 97
, cervus, ib.	Bafwer, 221	antilope, ib.	, short-tailed, 92
, larger, ib.	Baieu, 303	ape, 58	, fmall-eared, 94
maculatus, ib.	Baikal hare, 280	jackal, 141	, fpear-nofed, 92
major, ib.	Вактеос, хамплос, 289	ledmee, 320	, firiped, 96
, middle, ib.	BALÆNA, 356	lynx, 156	, ternate, 90 96
, fpotted, ib.	Balaena, 356 358 359 360	moufe, 234	, wonderful, 89
unicolor, ib.	albicans, 361	fquirrel, 262	, ylo, 93
, white, ib.	bipinnis fibbaldi, 356	, ftag of, 299	Bay lynx, 158
Aye-aye, 265 Aygula, cercopithecus, 68	Boops, 358	wedder, 328	monkey, 74
monea, ib.	dudleji, 361	Barbaftelle, 95	Beaked whale, 360
, fimia, ib.	, edentula, vulgaris,	Barbaftellus, vespertilio, ib. Barbata, ovis aries, 330	Bear, 183 , american, 186
, monea, ib.	356 gibbofa, 359	, phoca, 126	, black, 184
,	gibbis fex, ib.	, fimia nictitans, 69	, brown, ib.
В	gibbo unico, ib.		, chefnut, 189
Baas, 340	groenlandica, 356	, cercopithecus, nic-	, common, 184
Babi-raefa, 354	, mysticetus, ib.	titans, 69	, grey, ib.
Babi-roefa, ib.	, islandica, mysticetus,	Barbet, 134	, larger arctic, 185
Babiroussa, ib.	357	, grand, 131 134	, long-nofed, 161
Baboon, blue-faced, 62	macra, 359	, petit, 131	, long-tailed, 183
, brown, ib.	macrocephala, 362	Bardeau, 345	, polar, 185
, cinereous, ib.	, , major, 360	Baftard african marmot,	, fand, 186
, crefted, ib.	major, 356 362	285	, fea, 185
, dog-faced, 63	macrocephala,	pug-dog, 132	, variegated, 184
, urfine, ib.	360	Ват, 89	, white, 184 185
, great, 60	, mysticetus, 357	, american, 93	, land, 184
, hoggifh, 61	minor, 360 364	, bearded, 95	fea, 185
, howling, 65	, roftrata, 360	, bull-dog, 97	Bearded bat, 95
, lion-tailed, 64	Musculus, 359	, broad-tailed, 100	cercopithecus, 66,75
, little, 59 , long-tailed, 65	Mysticetus, 356	, broad-winged, ib.	men, little, 65
, new, 62	groenlandica, ib.	, chop-fallen, 92	nodding monkey, 69
, pig-tailed, 59	iflandica, 357	, Clayton's, 100	fheep, 330
, ribbed-nose, 61	major, ib. novae-angliae, 359	, common, 93 94 , american, 92	Beardless ape, 78 ibex, 310
, rib-nofed, ib.	Phyfalis, 358	, cordated, ib.	Beautiful fawn, 293
, wood, ib.	roftrata, 360	, dusk-red american,	Beaver, 221
, yellow, 62	minor, ib.	93	Beaver, 204 221 227
BABOONS, 59	, fibbaldi, bipinnis, 356	, great, 91 94	, castor, 221
Babyroufa, 354	vera, ib.	, great-eared, 93	, chefnut, ib.
Babyrufa, ib.	vulgaris, ib.	, greater bull-dog, 97	, chilese, 224
Babyruffa, fus, ib.	edentula, ib.	, hare-lip, 93	, civet, 226
Bactrian Camel, 289	vulgi, ib.	, heart-nofed, 92	, common, 221
Bactrianus, camelus, ib.	Balein, 359	, horned, 91	, long-nofed, 204
Badger, 165 186	Balena, ib.	, horfe-shoe, 99	, musk, 204 226
, american, 187	Bandicote, 228	, javalin, 92	, musky, 204
, common, 186	Bancrofti, fciurus, 265	, larger horfe-shoe, 99	, terrier, 224
, guiana, 161 , rock, 285	Banjee, mejangan, 301	, leaf, 92	, white, 222
, indian, 188	Baraba hamfter, 245	, leaf-nofed, ib.	Beaver-rat, webbed, 225
, fpotted, 187	rat, ib. Barabenfis, mus, ib.	, leffer bull-dog, 97	Beach moufe, 222, 232
, flinking, 165	Baralou, cervus, 304	, horfe-fhoe, 99 , long-eared, 93	Beech mouse, 232 233 Beelzebub, sapajus, 75
4 6, 3	2212104, 661 (43, 304	, iong-carea, 93	Decidebuly inpajus, 15

		•	
Beelzebub, fimia, 75	Black bear, 184	Blunt-nofed cachalot, white,	Bos cafer 220
Beeves, american, 336	blunt-nofed cachalot,	361	domesticus, 334
Bedlemer, 125		Boar, 351	, , taurus, ib.
Belka, teleutskaya, 256	cercopithecus, 75 82	, african wild, 353	, ecornis, gruniens, 338
Bellicosus anglicus, canis,	common squirrel, 256	lurcher, 135	, europaeus, taurus, 334
	couguar, 150	, wild, 350	, exiguus, africanus, 340
Bellua, phyfalus, 358	flying-opoilum, 199	Bobak, 250	ferus, 333
BELLUAE, 341			
Bell weddon as	flying-fquirrel, indian,	, arctomys, ib.	, ghainouk, gruniens,
Bell-wedder, 328	269	Bobr, 221	337
Belonii, tragelaphus, 331	fox, 141	Boccamelle, 183	Gnou, 315
Beluga, 364 365	german hamster, 243	Bock, 321	gruniens, 337
Bengal lynx, 156	hamster, ib.	blauer, 306	ecornis, 338
, quadruped from, 309	hare, 279	, bonte 317	Ghainouk, ib.
tiger-cat, 151	man, 46	, bofch, 318	Sarlyk, ib.
Bengalensis, felis, ib.	maucauco 86	, gems, 316	, Guavera, bubalus, 339
, lynx, 156	mole, 200	, fiegen, 321	indicus, 338
Berbe, 168	mongous, 85	, fpring, 312	major, taurus, 334
Betulinus, mus, 232	otter, 172 174	, stein, 321 324	minimus, taurus,
Bezoar antelope, 315	pteropus, 90	Βοες αγεοι, 338	335
antilope, 316	rat, 228	αξαχωτοις, 328	minor, taurus, ib.
goat, 315	ruflian mole rat, 246	Boeuf d'afrique, petit, 340	, madagafcarenfis, tau-
Bezoardica, capra, 316	feal, 128	de canada, 336	rus, 335
Bezoardicus, hircus, ib.	fquirrel, 257	musqué, 337	, major indicus, taurus,
Bezoartica, antilope, 315	tiger, 150	fauvage, 336	334
, capra, 320	vari, 86	velu, 337	, minimus indicus, tau-
Bezoarticum, animal, 316	virginian mole, 202	Boggo, 61	rus, 335
Biber, 221	water-rat, 286	Bombay fquirrel, 261	, minor indicus, taurus,
Biche, 298 -	wolf, 137	Bomdoeskje, 262	ib.
des bois, 303	Black-banded patas, 71		moschatus, 336
	Black-bearded cercopithe-	Bovarros, 333	
puletuviers, ib.		Bonaffus, ib.	, parvus, africanus, 340
petite, 318	cus, 64	Bonnet, chinese, 69	pumilus, ib.
Bichon, 132	Black faced mongous, 85	Bonneted rillow, ib.	, feminudus, bubalus,
Bicolor, lemur, 87	fhecp, 326	Bonte bock, 317	339
, fciurus, 259	Blackish otter, 172	Boops, balaena, 358	filvestris, 333
, forex, 205	Bladrufelus, 126	Booted lynx, 156	scythicus, 335
Bicornis, rhinoceros, 114	Blaireau, 186	Borealis, trichechus mana-	Strepficeros, 319
Bieluga, 364	, puant, 165	tus, 120	Taurus, 332
Bievre, 221	Blanc-nez, 72	Borfuk, 186	abestinicus, 339
Biformis, afinus, 345	poison, 361	Bos, 332	africanus, 335
Biggel, 308 309	Blaue kaze, 154	Bos, 334	Bifon, 333
Bipes, mus, 273 274	Blauer bock, 306	, abeffinicus, taurus, 335	Bonafus, ib.
Bipinnis fibbaldi, balaena,		africanus, 339	domesticus, 334
356		exiguus, 340	europaeus, ib.
Bifamraze, 204	moufe, 205	parvus, ib.	indicus major, ib.
Bifamthier, 292	Blood horfe, 342	, taurus, 335	minimus, 335
Bison, 333 336	hound, 133	, albus, bifon, 333	minor, ib.
albus, bos, 333	Blotched weafel, 168	americanus, 336	madagascarensis, ib.
, american, 336	Blue antelope, 307	, bifon, ib.	tinianenfis, ib.
americanus, bos, ib.		, anoa, bubalus, 339	Urus, 332
, bos, 333	bulls, 309	Arnee, 336	, tinianenfis, taurus, 335
, taurus, ib.	cat, 154	barbatus, 340	, urus, taurus, 332
, european, 336	goat, 306	Bison, 333	Bofh bock, 318
, florida, ib.	mouse, 234	albus, ib.	hund, 139
Bisontes jubati, 333	fhrew, 207	americanus, 336	ratte, 219
Bisulcus, equus, 346	Blue-faced baboon, 62	tannua aaa	Bothnic common feal, 124
Biur, 221	Bluish arctic fox, 144	, bonafus, taurus, ib.	Botnica, phoca vitulina, ib.
Bizaam, 168	Blunt-headed cachalot, 360	Bubalus, 338-	Bottle-nosed seal, 122
, chat, ib.	Blunt-nofed cachalot, ib.	Anoa, 339	whale, 360
Βισωνες, 333	, black, ib.	Guavera, ib.	Βουβαλος, 314
Black ape, 68		feminudus, ib.	
upo, 00	, grey, 361	i a 2	Bouc, 321
•	Α		

Bouc chamois, 306	Brown man, 46	C	Camelus arcucanus, 200
			. ,
estain, 324	mole, 202	Caaigoara, 352	bactrianus, 289
fauvage, ib.	mongous, 85	Caballus, 343	dromas, 287
ftein, ib.	porpoise, 363	, equus, fee Equus	Dromedarius, ib.
Bouquetin, ib.	profimia, 85	Cabiai, 220	dromos, 288
Boury, 335	rat, 228	Cabionara, ib.	Glama, 289
Brachiurus, mus agrestis,	fajou, 77	Cabonas goat, 323	Huanacus, 290
235	fapajou, ib.	CACHALOT, 360	hybridus, 289
Brachyura, didelphis, 196	tiger, 150	, black blunt-nofed, ib.	indicus, 305
, hyftrix, 210	vari, 86	, blunt-headed, ib.	, laniger, peruvianus,
, ovis, 326	Brown-ash mouse, 250	, blunt-nofed, ib.	291
BRADYPUS, 101	Brown-grey moufe, ib.	, grey blunt-nofed, 361	Paco, ib.
, curled, ib.	Brownish galera, 175	, high-finned, 362 363	peruvianus, 289
didactylus, 102	weafel, 165	, hook-toothed sharp-	laniger, 291
pentadactylus, ib.	Brunii, didelphis, 197	nofed, 361	tarcicus, 289
tridactylus, 101	Brunne, la grande vache,	, leffer, 360	Vicugna, 291
urfinus, 102	314	, fharp-nofed, 361	vigogne, ib.
Brandhirsch, 299	BRUTA, 101	, ftraight-toothed fharp-	Campagnol, 239
Brant fox, 142	Bubalc, 314	nofed, 362	Campestris, canis hispani-
, american, ib.	Bubalis, ib.	, white blunt-nofed, 361	eus, 134
Brafilian coney, 219	, antilope, ib.	Caehelotte, dritte, 362	gutturofa, caprea, 311
hare, 282 283	Bubalus, 314 337 338	, zweyte, ib.	major, mus, 230
lynx, 149	africanus, 339	Cachiehame, 111	minor, mus, 239
moufe, larger, 216	parvus, 340	Cachieno, ourico, 213	Canada, boeuf de, 336
musk, 294	341	Caeruleus, felis catus, 154	porcupine, 215
opoffum, 192	annoa, bos, 339	, forex, 207	Canadian lynx, 157
otter, 172	, bos, 338	Cafer, bos, 339	marmot, 251
pardus, 149	guavera, bos, 339	, dipus, 275.	musk-rat, 226
philander, 121 191	feminudus, bos, ib.	Cafra, viverra, 159	otter, 173
poreupine, 213	Bubul, 337	Cafrarian ichneumon, ibs	porcupine, 215
, larger, ib.	Buccati, mures, 242	Cagui, larger, 81	rein deer, 297
, fimaller, ib.	Bucephalus, 314	, leffer, 80	ftag, 299
fhrew, 206	Buck, greenland, 297	Cai, 82	Canadenfis, cervus elaphus
fquirrel, 263	of juda, 322	Caitaia, 78	ib
, ftriped, ib.	, other, 323	Calf, 332	, glis, 25T
tiger, 149	Bucharian sheep, 329	Calling hare, 283	, Iepus, 279:
weafel, 161	Bucharica, ovis aries, ib.	Callitrix, 66	, lutra, 173.
, dufky, ib.	Buffalo, 338	CAMEL, 287	, lynx, 157
Brafilienfis, cuniculus, 219	, cape, 339	Camel, 289	, mus moschiferus, 226
283	, little indian, 335	, arabian, 287 288	, mustela, 1.76
, equus, 345	, naked, 339	, bactrian, 289	Cancrivora, didelphis, 193
, lepus, 282 283		, indian, 305	Cancrofus, ib.
, lutra, 172	Buffel, ib.		Candida, mustela, 181
		, mixed, 289	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
, major, mus,	, africanifcher, 339	, one-bunched, 288	Cane muffolo, 132
216	tangutischer, 337	, peruvian, 289	Canis, 129
, forex, 206	Buffelo, 336	, woolly, 291	Canis, 129 143
Brawny porcupine, 216	Buffelochfen, 338	, fwift, 288	Adive, 141
Brevipilis, canis, 131	Buffelus, ib.	, turkith, 289	aegyptius, 135
Bright-yellow mouse, 271	Bugee, 85	, two-bunched, ib.	americanus, 136
Broad fquirrel, 268	Bull, 332	, woolly peruvian, 291	obefus, ib.
Broad-nofed whale, 359	Bull dog, 132	Camelopard, 305	plancus, ib
Broad-tailed bat, 100	Bull-dog bat, 97	giraffe, ib.	anglicus, 133
fheep, 328 329	, greater, ib.	CAMELOPARDALIS, ib.	bellicofus, ib.
Broad-winged bat, 100	, leffer, ib.	Camelopardalis, ib.	antarticus, 136
Brown antilope, 319	Bulls, blue, 309	, cervus, ib.	aquatieus major, 131
baboon, 62	, grey, ib.	giraffa, ib.	134
bear, 184	Buselaphus, antilope, 314	Camelpard, ib.	minor, 13
cercopithecus, 77	Buth-tailed monkey, 77	Camelus, 287	fagax, ib.
cow, little, 307	Buts-kopf, 364	Camelus, 287 289	aquatilis, 134
lemur, 86	Buts-kopper, ib.	arabieus, 287	aviarius, ib.
10111019 00	Traco-Itopper, ID.	arabicus, 20/	10 1 10 2 1 1 1 5 1 D 5.

		INDEXIOIH	E MAMMALIA.	3/3
Can	is avicularis, 134	Canis Vertegus valgus, 135	CAPRA, 320	Caraco, 227
wall.	brevipilis, 131	villofus, ib.		, mus, ib.
	Cerdo, 144	volans, 91		Carcajou, 189
	cinereus, 138	Vulpes, 141	Aegagrus, 320 alpina, 324	Cariacou, 304
	cursorius hibernicus	Alopex, 142	Ammon, 330 331	, cervus, ib.
		americanus, ib.	angorenfis, 321	Caribou, 297
	turcicus, ib.	europaeus, ib.	bezoardica, 316	Caribo, ib.
	domesticus, 130	australis, 1.44	bezoartica, 320	Carigueia, 192
	extrarius, 131	chilenfis, ib.	Capricornis, 323	Cariguibeia, 172
	familiaris, 129	cincreo-argenteus,	caucafica, 324	Carinated fhrew, 208
	flavus, 140	_	Cervicapra, 320	Carkajou, 187
	fricator, 132	Corfac, 142	cretenfis, 330	Carnatic fquirrel, 264
	gallicus, 133	cruciger, 144	depressa, 322	Carnero, 328
	graecus venaticus, 134	Karagan, 143	domestica, 321	Carolina fquirrel, 258 259
	Grajus, ib.	Lagopus, ib.	Dorcas, 313 314	, reddifh, 263
	hirfutus, ib.	albus, 144	flava, 311	Carolinenfis, fciurus, 258
	italicus, 135	cerulescens, ib.	Gazella, 315	, rufus, 263
	orientalis, ib.	Lycaon, 141	africana, ib.	Carolinian stag, 299
	venaticus, 134	virginianus, 143	Grimmia, 318	Cafan marmot, 252 253
	grifeo-flavefcens, 136	Canus, sciurus, 270 271	groenlandica, 297	Cafpian common feal, 124
	hispanicus, 131	Cape ant-eater, 106	gutturofa, 311	jerboa, 275
	campestris, 134	ashkoko, 285	Hircus, 321	lynx, 155
	Hyaena, 138	aurochs, 340	Ibex, 324	Caspica, phoca vitulina, 124
	aethiopicus, 139	buffalo, 339	indica, 322	Castaneus, castor, 221
	Crocuta, ib.	cavy, 285	nmbrica, ib.	, petaurus petaurista,
	hybridus, 132	deer, 319	mambrina indica, ib.	269
	islandicus, 131	fitchet, 165	fyriaca, ib.	, ursus, 189
	laniarius, 135	hamster, 247	moschi, 292	CASTOR, 221
	aprinus, ib.	hare, 281	mutica, 323	Cafter, 221 227 .
	fuillus, ib.	jackal, 140	nana, ib.	bcaver, 221
	leoninus, 132	jerboa, 275	orientalis, 331	castaneus, 221
	Lupus, 136	marmot, 285	parva, 322	Fiber, ib.
	albus, 137	mole, 247	Pudu, 332	albus, 222
	fasciatus, ib.	, of the, ib.	reverfa, ib.	folitarius, 224
	flavus, ib.	mole-rat, 246 247	Rupicapra, 307	huidobrius, ib.
	mexicanus, 138-	øx, 339	syriaca, 322	moschatus, 204
	albus, ib.	fheep, 329	tartarica, 310	moschiferus, ib.
	niger, 137	fquirrel, 266	Caprea, 302	zibethicus, 226
	Thous, 138	tiger-cat, 152	campestris gutturofa,	CAT, 145
	Mastivus, 133	Cape-verd hog, 353	31.1	, angora, 154
	melitaeus, 132	Capensis, cavia, 285	Capreolus, 302	, blue, 155
	parvus, 131	, cervus, 319	albus, cervus, ib.	, chartreux, 154
	pilofus, 132	, felis, 152.	cervus, ib.	, chinefe, ib.
	Mesomelas, 140	, hyrax, 285	moschi, 292	, common, 153
	oînougos, 130	; lepus, 281	Capricorn, 323	, cyprus, 154
	pomeranus, 131	, myotalpar, 246	goat, ib.	, domefric, ib.
	ponticus, 224	, myrmecophaga, 106	Capricorne, 323 324	, flying, 89 269
	fagax, 133	, ovis arics, 329	Capricornis, capra, 323	, long-headed, 155
	panterinus, 134	, sciurus, 266	Capucin, 78	, mexican, 149
	fanguinarius, 132	, viverra, 165	Capucina, fimia, ib.	, mountain, 152
	fcoticus, 133	yerbua, 275	albula, fimia, ib.	of angora, 154
	venatorius, ib.	Caper hispanicus, 321	Capucinus, fapajus, ib.	fquirrel, 257 259
	fcoticus, 133	Capefch, 140	albulus, fapajus, ib.	red, 154
	venaticus, 134	Capibara, 220	Capybara, 220	, tortoife-shell, ib.
	fibiricus, 131	, cavy, ib.	, cavia, ib.	, wild, 153
	fylvestris major, 195	Capidolio, 359	Caracal, 156	Catalogue Systematic 22
	variegatus, 132 venaticus, 133	Capiftrata fimia, 73	, bengal, ib.	Catalogue, fystematic, 32
	Vertegus, 135	Capiftratus, cercopithecus, ib.	, felis lynx, ib.	Cataphractus duodecem- cinctus, 11.1.
	rectus, ib.	Capivard, 220	, lybian, ib. , nubian, ib.	novemcinctus, ibs.
	Accins, 10.	Capitala, 220	9 11 (102 2011), 100	no sememettis, 108.

Cataphractus novemdecem-	Cayenne otter, 174	Cercopithecus, Simia, fee	
cinctus, 112	fquirrel, 265	Simia	perpufillus, 318
octocinctus, 110	tiger-cat, 151	finicus, 69	platyceros, 298 300
quadricinclus, 109		pileatus, ib.	porcinus, 301
-1excinctus, ib.	, didelphis, ib.	, fmalleft, 79	maculatus, ib.
tricinctus, 108	Cemas, 307 308	, St jago, 66	pratenfis, 304
Catedon, 360	Cephalote, 98	veter, 64	pufillus , 293
Catofimius volans, 87	, ftraw-coloured, ib.	albobarbatus, ib.	pygargus, 302
Cattus, lemur, ib.	Cephalotes melinus, vefper-	veridens, 73	Squinaton, 304
Catus, 153 154	tilio, ib.	, yellowifh, 66	fylvaticus, 303
angorensis, 154	, vespertilio, ib.	, yellowish-white, 82	Tarandus, 296
aureus, 155	Cephus, cercopithecus, 67	Cerdo, 144 145	Caribou, 297
ceruleus, 154	, fimia, ib.	, canis, 144	groenlandicus, ib.
domesticus, ib.	CERCOPITHECI, 63	Cerf, 298	Rangifer, ib.
, felis, fee Felis	Cercopithecus, 58	Cerulescens, canis vulpes	Temama, 303
ferus, 153	aethiops, 67	lagopus, 144	Temamaçame, 314
hispanicus, 154	torquatus, ib.	Cerva parvula, 293	virginianus, 299
madagafcarentis, 155	, ash coloured, 69	Cervarius, lupus, 157	CETE, 355
montanus, ib.	Aygula, 68	Cervicapra, 312 321	Cete, 360
spardus, ib.	Monea, ib.	, antilope, 319	admirabile, ib.
ruber, 154	badius, 74	, capra, 320	Cetus, ib.
finenfis, ib.	, bearded, 66 75	Cervine antilope, 314	albicans, 361
fylvestris, 153	, black, 75 82	Cervocamelus, 289	albus, ib.
Caucafan goat, 321 324	, bearded, 54	Cervula africana, 318	dentatus, 360
Caucafica, capra, 324	, blackish, 67	CERVUS, 295	having three fins, 362
Cauda elongata, urfus, 188	, brown, 77	Aha, 302	novae-angliae, 361
obefa, ovis, 329	capiftratus, 73	africanus, 293	Ceylon cercopithecus, 83
pilofa, mus, 270	Cephus, 67	Alces, 295	chevrotin, 294
Caudata, talpa, 200	, ceylon, 83	fosfilis, 296	fitchet, 164
Caudimanum, animal, 193	cynocephalus, 65 66	anomalus, 304	mouse, white, 227
Caudivolvula, didelphis, 196	cynomolgus, 65	Axis, 300	floth, 83
, viverra, 169	cynofurus, 63	albus, ib.	fquirrel, 260
CAVIA, 216	, dog-faced, 61	maculatus, ib.	Tardigradus, 102
Acuschy, 217	Faunus, 65	major, ib.	white rat from, 207
Aguti, ib.	fulvus, 73	unicolor, ib.	Chameau, 289
americana, 218	fulcus, 74	Barallou, 304	Chamois, 307 316
cunicularis, 217	Hamadryas, 63	Camelopardalis,:305	, bouc, 306
· leporina, 218	urfinus, ib.	Capreolus, 302	goat, 307
Aperea, 219	hircinus, 73	albus, ib.	, fiberian, 331
nigra, ib.	, indian, 85	Cariacou, 304	Champagnol volant, 95
capenfis, 285	, larger, 65	capenfis, 319	Changeable mole, 203
Gapibara, 220	, leffer, 82	cornibus palmatus, 295	Charbonnier, 142
Cobaya, 219 220	luteolus, 73	.Cuguapara, 303	, renard, ib.
hudfonia, 215	-maurus, 72	Cuguete, ib.	Charger, 342
magellanica, 220	Mona, 70	Dama, 298	Chartreux cat, 154
Paca, 216	nafuus, 72	vulgaris, ib.	Chat bizaam, 168
alba, 217	nemaeus, 69	Elaphus, ib.	d'angora, 154
CAVY, 216	nictitans, ib.	canadenfis, 299	d'espagne, 167
, cape, 285	barbatus, ib.	corficanus, ib.	domestique, 154
Capibara, 220	patauriftus, 72	Hippelaphus, 298	fauvage, 153
, hudfons-bay, 215	regalis, 74	minutus, 299	Chat-pard, 152 155
, javan, 218	Roloway, 72	germanicus, 298	Chaus, 155
, long-nofed, ib.	ruber, 71	guineenfis, 304	, felis lynx, ib.
, muík, 227	albofasciatus, ib.	indicus, ib.	Chauve-fouris, 94
, patagonian, 220	nigrofasciatus, ib.	major, 303	Chelonifcus, 109
, reftlefs, ib.	fabaeus, 66	Mazame, ib.	Cheropotamus, 347
5 rock, 219	Silenus, 64	mexicanus, ib.	Cherofo, 233
, fpotted, 216	albobarbatus, ib.	Muntjac, 301	Chefnut bear, 189
Gayenne martin, 177	purpuratus, 65	nemorofus, 304	beaver, 221
opoffum, 195	Tie-tie, ib.	palmatus, 298	faimiri, 79
1, .93		F	11/

	INDER TO III		3/3
Cheval, 341	Cinereus, forex arcticus, 206	Common horse, 341	Cornibus palmatis, cervus,
marin, 347	Circaffian jerboa, 276	jerboa, 272	295
Chevre, 321	jerboid-rat, ib.	lynx, 156	Cornuti, lepores, 278
d'angora, ib.	Circafficus, dipus, ib.	marmot, 249	Cornutus, aper, 352
fauvage, ib.	Cirquinçon, 112	martin, 176	, lepus timidus, 278
Chevrette, 302	Citillus, arctomys, 252 253	moufe, 229	Corfac, canis vulpes, 142
Chevreuil, 300 302	, mus, 253	otter, 172	Corfican argali, 331
Chevrotin, ceylon, 294	Citli, 283	ox, 332	ftag, 299
des indes orientales	Civet, 165	rabbit, 281	Corsicanus, cervus elaphus,
293		rat, 228	ib.
Chien courant, 133	beaver, 226	rein deer, 297	Cofcui, 352
de fiberie, 131	cat, 165	feal, 123	Coudous, 317
d'icelande, ib.	, flying, 269	, bothnic, 124	Couguar, 150 151
volant, 90	, malayan, 171	, cafpian, ib.	, black, 150
Chien-lion, 132	Civetta, 165	, fiberian, ib.	, felis, 151
Chien-loup, 131	, viverra, ib.	fheep, 325	, penfylvanian, ib.
Chien-turc, 135	volans, 269	fquirrel. 255	Courant, chien, 133
Chilenfis, canis vulpes, 144	Classes of the animal king-	, black, 256	Courier, mafter, 340
, lutra, 172	dom, 30	, red, 255	Cow, 332
, phoca, 127	Clayton's bat, 100	, reddish, ib.	, little brown, 307
, vulpes, 144	Climbing fquirrels, 255	, filvery, 256	, mountain, 348
Chilese beaver, 224	Coaita, 76	, varying, ib.	of tartary, 337
fox, 144	Coal fox, 142	, white, ib.	Coymatl, 352
hare, 280	Coasse, 162	, white-tailed,	Coyotl, 144
horfe, 346		ib.	Coypus, myocastor, 225
marmot, 254	Coati, 158 161 188 , black, 161		Coztiocotequallin, 264
otter, 172	, brown, ib.	urchin, 289 weafel, 182	Crab-eater, 195
feal, 127			opossum, ib
fquirrel, 264	, grey, 186	whale, 356	
weafel, 183	, fhort-tailed, ib.	, greenland, ib.	Crab-dog, ib. Crabier, ib.
Chillihueque, 290 291	, white, 104	, iceland. 357	
Chimpanzee, 55	Coati-mondi, 161	, larger, ib.	Cretan sheep, 330
Chinche, 163 164	Cobaya, cavia, 219 220	wolf, 137 Commonest rabbit, 218	Cretensis, aries, ib.
Chinensis, sus, 351	Cochin-china monkey, 69		, capra, ib. Crested baboon, 62
Chinese antilope, 311	Cochon, 351	Concolor, felis, 150 Condoma, 319	
bonnet, 69	de lait, ib.		oriental porcupine, 212
cat, 154	noir, 35 ²	Conepate, 162	porcupine, ib. 1hrew, 201
hog, 351	fauvage, 350	Conepatl, 163	_
monkey, 69	Coendou, 214 Coefcoes, 197	, viverra, ib.	CRICETI, 242
morvant, 330	Coeffices are	Coney, american, 218 219	Cricetus Acredula, 242
ftag, 299	Coefdoes, 317	, brafilian, 219 , collared, 283	arenarius, 244
Chloras, 60	Collared coney, 283	dwarf looping	germanicus, 243 glis, ib.
Χοιζοπιθηκος, 59	mouse, 240	, dwarf leaping, 273	niger, ib.
Chopfallen bat, 93	rabbit, 283 Colugo, 89	, female indian, 219	
Χευςςος, Λυκος, 140	Colus, 310	, german, 253	germanicus, ib. Cristata, hystrix, 212
Chuchie, 352	Common american bat, 92	, guinea, 219 , hare-like, 280	
Cinerea, papio, 62		, hedge, ib.	europaea, 213
, fimia, ib.	antilope, 319	, indian, 273	, orientalis, 212
, talpa, 200	badger, 189	, javan, 218	, papio, 62
, europaea, ib.	bear, 184		, phoca, 126 , fimia, 62
Cinereo-argenteus, canis	cat, 153	, norwegian, 241 , fmall indian, 217	Cristatus, acanthion, 212
vulpes, 143	domestic hog, 351	taillese indian and	
, vulpes, ib.	dormoufe, 272 fallow deer, 298	, tailless indian, 219 Copper-coloured man, 46	, forex, 201 Crocutà, 139
Cinereous baboon, 62		Coquallin, 264	
mole, 200	goat, 321		cross for 144
Cinereus, canis, 138	grey-hound, 134	Cordated bat, 92	Cross fox, 144
, lemur mongoz, 85	hare, 277	Coringe 212	Crook-legged turnspit, 135
, physeter macroce-	, horned, 278	Corinne, 313	Crucigera, canis vulpes, 144
phalus, 361	, yellow, ib.	Cornina, antilope, ib.	Cuandu, 213
, sciurus, 258	hedge-hog, 209	Cornibus arietinis, rupica-	, larger, ib. "
,	hog, 350	pra, 331	Cuatlachtli, 138

			T):
Cuguacu-apara, 303	Dam-hirfch, 298	Deer, red, 298	Dipus aegyptias, 274
Cuguacu-ara, 150	Dandoelana, 260	, Rein, 296	cafer, 275
Cuguacu-arana, ib.	Daniel, 298	, rib-faced, 301	circafficus, 276
Cuguacu-ete, 303	Danish dog, little, 132	, Roe, 302 -	jacculus, 272
Cunicularii, mures, 234	, finall, ib.	, finall, of guinea, 293	labradorius, 276
	Dann hinfah ang		
Cunicularis, cavia aguti, 217	Dann-hirsch, 298	, red, 299	meridianus, 275
Cuniculus, 281	Danois, petit, 132	, fpeckled, 300	fagitta, 273
Agouti, 217	Dant, 340	, fpotted porcine, 301	fibiricus, 274
americanus, 218	Danta, 348	, uncertain species of,	major, ib.
brafilienfis, 219 283	Das wilde schaaf, 331	303	medius, ib.
, femina, indicus, 219	DASYPUS, 108	, unknown, 304	minor, 275
germanicus, 253	duodecemcinctus, 111	, virginian, 299	pumilio, ib.
guineensis, 219	longicaudatus, 112	Degus, sciurus, 264	tamaricinus, 276
indicus, 219 273	maximus, ib.	Dentatus, cetus, 360	Dischon, 313
femina, 219	novemcinctus, 111	Delphin, 363	Difcolor, felis, 150
javensis, 218	novemdecemcinctus,	DELPHINUS, 362	Docke, englische, 133
leporinus, 280	112	Delphinus, 119 363	Doe, fmall, 293
, Lepus, 281	octocinctus, 110	Delphis, 363	Dof, 298
minor palustris, 216	pinuum, 157	leucas, 364	Dof-hiort, ib.
norwegicus, 241	quadricinctus, 100	Orca, ib.	Dog, 129
Paca, 216	feptemcinctus, 110	ensidorfatus, ib.	, alicant, 132
, palustris, minor, 216	fexcinctus, 109	Phocaena, 362 363	, american, 136
pumilio faliens, 273	tricinctus, 108	albus, 363	, arctic, 144
vulgatiffimus, 218	unicinctus, 111	fuscus, ib.	, artois, 132
*Cunning mouse, 232 233	Daurian hare, 280	Delphis, delphinus, 363	, ash coloured, 138
Cupreus, homo, 46	mole-rat, 247	Δελφις, ib.	, barbet, 134
Curly maucauco, 88	weafel, 283	Depressa, capra, 322	, baftard pug, 132
Curled bradypus, 101	Daurica anaurinos, ochodo-	Description of man, 46	, blood-hound, 133
Curs-hund, 134		Defert fox, 143	, boar lurcher, 135
	na, 283	Defere 10x, 143	
Curforius, canis, ib.	, mustela, ib.	Defman, 204	, bull, 132
hybernicus, canis, ib.	Dauricus, lepus, 280	Definans rotter, 226	, common greyhound,
turcicus, canis, ib.	Decumanus, mus, 228	Diabolus tajovanicus, 107	134
Cyanus, mus, 235	Dedication, Linnaean, 9	Diana, cercopithecus, 66	, crook-leggedturnspit,
Cynocephala, fimia, 58 66	DEER, 295	, fimia, ib.	135
Cynocephalus, 58 61 63	, african 293	Didactylus, bradypus, 102	, faithful, 129
, cercopithecus, 65 66	, canadian rein, 297	DIDELPHIS, 190	, field fpaniel, 134
Cynomolgus, cercopithecus,	, cape, 319	brachiurus, 196	, flying, 90 91
65	, common fallow, 298	brunii, 197	, french pyrame, 131
, fimia, ib.	, rein, 297	cancrivora, 195	, german hound, 133
Cynofurus, cercopithecus,	, Fallow, 298	caudivolvula, 196	, great water, 131 134.
63	, female roe, 302	Cayopollin, 193	, greek hunting, 134
, fimia, ib.	from africa, young,	dorfigera, 194	, greyhound, ib.
Cyolock, 56	1.4	gigantea, 197	, grey hunting, ib.
	293		, hairy maltefe, 132
Cyprus cat, 154	, greenland, 297	guianenfis, 194	
Czigethai, 343	, rein, ib.	maculata, 199	, hound, 133
	, grey, 304	marfupialis, 190	, iceland, 131
Ď	, guinea, ib.	molucca, 192	, irish greyhound, 134
Dachfschlieffer, 135	having palmated	murina, 194	, italian greyhound, 135
Dachfwurger, ib.	horns, 295	Opossum, 192	, King Charles, 131
Daemon thebaicus, 107	having rounded	orientalis, 196	, larger wild, 195
Dain, 298,	horns, 298	Philander, 191	, lesser water, 131
Daine, ib.	, hermaphrodite fal-	tridactyla, 198	, lien, 132
Dama, ib.	low, ib.	virginiana, 193	, little danish, ib.
, antilope, 308	, hog, 301	volans, 199	, lurcher, 135
, cervus, 298	, indian, 304	vulpecula, 198	, mastiff, 133
virginianus, 300	, male roe, 302	Dietetical observations, 50	, naked, 135
vulgaris, 298	, mexican, 303	Digger, 205	, new-holland, 136
, cervus, ib.	, mofe, 295	Diumonds, 325	, new-fouth-wales, ib.
Dama-cervus, ib.	of guinea, finall, 293	△1785, pus, 273	, oriental greyhound,
Daman istract, 273 274	, porcine, 301	Dirus, 272	135
, ,			

Dog, pointer, 134	Domesticus, hircus, 321	Dwarf mouse, 233	Elk antelope, 317
., pomeranian, 131	major, mus, 228	ox, 340	, irifh, 296
, pug, 132	medius, mus, 230	fheep, 326	Elks, 301
, pyrame, 131	minor, mus, 229		Elwandu, 64
, rough greyhound, 134	monungulus, fus	E	Emgalo, 353
, lurcher, 135	fcrofa, 351	Earless dormouse, 266	'Ни от , 343
, fagacious hunting, 133	, porcus, ib.	Earth-dog, little, 252	Empetra, arctomys, 251
, fanguinary, 132	tinentis, sus scrofa,	Eau, musaraigne d', 205	, mus, ib.
, fcotch, 133	ib.	Eberhirsh, 354	Empire of nature, 17
, water, 131	, fus, 350	Ecaudatus, erinaceus, 211	Encouberto, 109
, fcotch hunting, 134	, fcrofa, ib.	, lemur, 84	Engallo, 353
, fhaggy turnspit, 135	, tragus, 321	Echinus terrestris, 209	Englische docke, 133
, shepherds, 130	Domestique, chat, 154	Economic mouse, 237	Englischer parforce-hund
, fhock, 132	Dorcas, 302 313	Ecornis, bos gruniens, 338	iò
, fiberian, 131	, antilope, 312 313	Ecureil, 255	Engulo, 353
, finall danish, 132	, capra, 313 314	fuisse, 263	Enfidorfatus, delphinus or
indian, 135	Δοςκας 313	Edentula, balaena vulgaris,	ca, 32
, maltefe, 131	Dormouse, 270	356	Epagneul, 131
, water, ib.	Dormouse, 271 272	Editions, lift of, 14	Epilepticus, sciurus, 270
, fpaniel, ib.	, common, 272	Edler-hirsch, 298	Equa, 341
, fpanish, ib.	, earlefs, 266	Eenhorn, 356	Equiferus, ib.
, ftraight-legged turn-	, fat, 270	Eenhorning, ib.	Equus, ib.
fpit, 135	, garden, 271	Egret, 68	Equus, ib.
, turnspit, ib.	, hoary, 270	Egyptian antelope, 315	Atinus, 343
, turkifh, ib.	, striped, 262	ape, 63	domesticus, 344
greyhound, 134	, wood, 271	ichneumon, 158	ferus, 343
, wolf, 131	Dorfata alba, hyftrix, 215	jerboa, 274	Hinnus, 345
, yellowish brown, 136	, hystrix, ib.	otter, 274	Mulus, ib.
Dog-faced baboon, 63	Dorfigera, didelphis, 194	Eichoernlein, 255	bifulcus, 346
cercopithecus, 61	Dorfo, fus umbilico in, 220	Eight-banded armadillo,	brafilienfis, 345
ursine baboon, 63	Douc, 69	IIO	Caballus, 341
Dog-headed ape, 58 83	d'Ratte, 219	Elan, 296 348	domesticus, ib.
monkey, 66	Draught horfe, 342	Eland, 317	ferus, ib.
Dogue, 132	Dritte cachelotte, 362	Elanden, 301	ferus, 341
Doguin, ib.	Dromas, camelus, 287	Ελαφοκαμηλος, 289	Hemionus, 342
Dolichura, ovis, 329	Dromedaire, 288	Ελαζος, 298	indicus, 345
Dolphin, 362	Dromedar, 289	ยบ่อนหรอบะ, ib.	marinus, 117
Dolphin, 119 363	Dromedarius, 288 289	rogros, ib.	Onager, 343
, true, 363	, camelus, 287	Elaphus, ib.	Quagga, 346
Domestic ass, 344	Dromedary, 288	canadenfis, cervus,	Zebra, 345
cat, 154	Δεομος, 289	299	hybridus, 346
goat, 321	Dromos, camelus, 288	, ccrvus, 298	Erdhaufe, 273
hog, 350	Dryas, myoxus, 271	corficanus, cervus,	Erectis auriculis, erinaceus,
, common, 351	Dichikketei, 342 343	hippolophyta con	EDINACEUS 200
horfe, 341	of the monguls, 342	hippelaphus, cer-	Erinaceus, 208
moufe, larger 228	Dichinichieus feinrus 264	vus, 298	Erinaceus, 209
, middle, 230	Dichinichicus, fciurus, 264	minutus, cervus,	albus americanus, ib.
, finall, 229	Dudleji, balaena, 361	E3000 271	auriculis erectis, ib.
ox, 334 urchin, fmall, 209	Dugon, 118	Exercise 271	auritus, 210 ecaudatus, 211
Domestica, capra, 321	, trichechus, ib. Dunes, taupe des, 247	ELEPHANT, 115	europaeus, 200
, felis, 154	Dunkey, 326	, american, 116	in auris, ib.
, martes, 176	Dufky brafilian weafel, 161	, great, 115	malaccenfis, 210
, ovis, 325	weafel, 173	hog, 348 Elephantis, 115	parvus nostras, 209
Domesticus, bos, 334	Dusky red american bat, 93	Elephants, water, 347	fetofus, 210
tangua ib	Duodecemcinctus, cata-	Elephas, 115	terrestris, 209
, canis, 130	phractus, 111	americanus, 116	Ermine, 181
, equus afinus, 344	, dafypus, ib.	maximus, 115	, white, ib.
, caballus, 341	Dwarf goat, 322	Elk, 295 296 345	Erminea aestiva, mustela,
, felis catus, 154	leaping coney, 273	, african, 317	181
Vol. I.	B t		201
	В (,	

Erminea hyberna, muftela,	Fatuellas, fimia, 77	Fetid fhrew, 205 208	Flavus, canis, 140
	Faunus, cercopithecus, 65	Fiaar-hund, 131	, lupus, 137
		Fiber, 221	, lupus, ib.
, mustela, ib.	, fimia, ib.		
Ermineum, animal, ib.	Fawn, beautiful, 293	albus, caftor, 222	, mus minutus, 232
Efel, 343 344	Fear, 26	, caftor, 221	, sciurus,-261
, wilder, 343	Fearful monkey, 77	folitarius, caftor, 224	Florida bison, 336
Eselpserd, africanisches, 345	Fecund mule, 243	Field-fross, 190	Flying cat, 89 269
Espagne, chat d', 167	Felina mustela, 172	Field moufe, 230	civet, 269
Ethiopian hog, 343	FELIS, 145	, larger, ib. 235	dog, 90 91
Europaea alba, talpa, 200	Felis, 153 154	, lefs long-tailed,	hare, 269
cinerea, talpa, ib.	bengalenfis, 151	230	maucauco, 89 199
flava, talpa, ib.	capenfis, 152	, leffer, ib.	mouse, 266
, hystrix cristata, 213		, long-tailed, ib.	opostum, 199
	Catus, 153 fee Catus		
nigra, talpa, 200:	concolor, 150	, fhort-tâiled,	, black, ib.
, ovis animon, 331	Couguar, 151	235 239	fquirrel, 266 267 26
, talpa, 200	difcolor, 150	, finaller, 239	, american, 26
variegata, talpa, ib.	domestica, 154	, white, 230	, black indiar
Europaeus, bos taurus, 334.	fulvo-rufescens, 150	fpaniel, 134	26
, erinaceus, 200	griseo-flavescens, 151	Filander, 197	, european, 26
, homo, 45	jubata, 150	Filbert mouse, 271 272	, great, 269
, vulpes alopex, 142.	Leo, 140	, larger, 271	, java, 268
European bison, 336	Leopardalis, 148	, leffer, 272.	, labradore, 26
flying squirrel, 267		fquirrel, ib.	
	Leopardus, ib.		, larger, ib.
man, 45	Lynx, 157 see Lynn	Filly, 342	, largest, 269
mole, 200	Manul, 152	Fin-backed whale, 358	, norfolk-ifland
, yellow, 201.	mexicana, 151	Fin-fish, ib.	27
ox, 334	nigra, 150	Fin whale, ib.	, Phillips, ib.
Europeans, 45	Onca, 149.	Finn-fife, ib.	, redindian, 26
Εύρυτεςως, ελαφος, 298.	Pardalis, ib.	Finne-fiske, ib.	"fevern-river,
Ewe, 325	Pardus, 147	First tatu, 109	26
Exiguus, bos africanus, 340.	Serval, 152	Fisc, weifs, 361	, fiberian, 268
Exilis, forex, 207	fylvestris, 153.	Fisch, hvid, ib.	, fmaller, ib.
Exquima, 76	tigrina, 151	, jupiter, 358	, fouthern, 26
, fapajus, ib	Tigris, 146	, fchwerdt, 364	, virginian, 26
, fimia, ib.			
	Uncia, 147	, weifs, 361 365	FLYING-SQUIRRELS, 266
Extrarius, canis, 131	volans, 269	, witt, 3.65	Foal, 342
70	Zibetha, 166	Fischotter, 173	Fodiens, forex, 204
F	zibethi, 165 166	Fiskatta, 162	Foetida, phoca, 125
Fair monkey, 82	Female roe deer, 302	Fith, fword, 364	Foina, 176
fquirrel, 261	zebra, 346	Fifh-tailed walrus, 119	, mustela, ib.
Faithful dog, 129	Femina, mus fylvestris, 196	Fish-tall, 307	Fong-kyo-fo, 288
Falcidentatus, physeter mi-	Fennec, 145	Fisher weafel, 179	Foreign fealy-lizard, 107
crops, 361.	Fera, ovis fibirica, 331.	FITCHET, 158	Formofan musk, 295
Falkland feal, 127	Fer-de-lance, 92	Fitchet, 179 182	Fofla, 168.
Fallow deer, 298	FER.Æ, 121	, cape, 165	, viverra, ib.
, common, ib.		, ceylon, 164	Fossane, ib.
			Fossilis, cervus alces, 296
, hermaphrodite,	vespertilio, 99	, hermaphrodite,	
ib.	. minor, velpertilio,	166	Eoulimart, 182.
Familiaris, canis, 129.	ib.	, malayan, 170	Foumart, ib.
Faon, 298-	, vefpertilio, ib.	, fpotted, ib.	Four-banded armadillo, 10
Faras, 191	Ferus, bos, 333	ftriped, ib.	fingered monkey, 7
Fasciata, phoca, 127	, catus, 153.	Five-toed ant-eater, 106:	toed ant-eater, 105
, viverra, 170	, equus, 341	manis, 107	weafel, 160
Fasciatus, canis lupus, 137	, afinus, 343	floth, 102	Fourmiller, 104
, sciurus aestuans, 263	, caballus, 341	Flat-horned antilope, 313	Fox, 141
Fat alco, 136	, felis catus, 153	Flava, capra, 311	, american brant, 142
dormouse, 270			
	home 44	, talpa, 201	, antartic, 144
fquirrel, ib.	, homo, 44.	europaea, 200	, arctic, ib.
Fat-rumped sheep, 328 329	, fus, 350	Flavescente-nigricans, mus-	, black, 141
Fatuellas, fapajus, 77	, ferofa, ib.	. tela, 179.	, bluith arctic, 144

Fox, brant, 142	Gallicus, canis, 133	Giraffa, camelopardalis, 305	Golden mole, fiberian, 203
, chilefe, 144	Gambian antilope, 307	, tragus, ib.	Gotlandica, ovis, 327
., coal, 142	Garden dormouse, 271	GIRAFFE, ib.	Gnou, 315
, crofs, 144	fquirrel, ib.	, camelopard, ib.	, bos, ib.
, defert, 143	Garlic moufe, 236	Girdled weafel, 180	Gau, ib.
, guinea, 175	Gazella, 316 320	Glama, 289	, antilope, ib.
, grey, 143	africana, 313 319	, camelus, ib.	Graeber, 205
, indian, 144	, capra, 315	Γλανος, 138	Graecus venaticus, cauis,
, karagan, 143	, antilope, 316	Glauca, mustela, 159	134
, larger stinking, 192	, capra, 315	Glareolus, mus, 238	Grajus, 134
, leffer, 161	, hircus, 320.	GLIRES, 212	, canis, ib.
, little, 162	indica, 315 316	Gliriaria, 271 Glis, 270 271 228	hirfutus, canis, ib.
, filvery, 143 fquirrel, 257	Gazelle, 313	alpinus, 249	italicus, canis, 135
, white arctic, 144	Gems, 317 bock, 316	argentoratenfis, 243	orientalis, canis, ib.
, wolf, ib.	Genera of the mammalia,	canadenfis, 251	Grampus, 364
Fox-tailed monkey, 80	40	cricetus, 243	, fword, ib.
Foyna, 176	Genet, 167	fuscus, 250	Grand barbet, 131 134
Franzofischer parforce-	, leverian, 168	marmota, 249	gibbon, 57
hund, 133	, Spanish, 167	polonica, 250	jerboa, 275 -
French pyrame, 131	, St jermains, ib.	monax, ib.	phoque, 126
Fricator, canis, 132	Genetta, ib.	, mus, 270	Grafkin, 255
Frumentarius, porcellus,	, viverra, ib.	, myoxus, ib.	Great ant-eater, 105
	Genith kaze, ib.	fylvestris, 194 195	, fhortnofed, ib.
Fuchse, 141	Genus ovis, alterum, 329	volans, 92	ape, 55 57
, fchwarze, ib.	Georgian fquirrel, 259	Glutton, 189 190	baboon, 60
, steppen, 143	Gerboa, 273	, white, 190	bat, 91 94
Full-bottom monkey, 74	Gerboife, ib.	Gmelin, Dr, his preface, 1	elephant, 115
Fulva, lutra, 173	German coney, 253	Gmelini, mus, 242	flying fquirrel, 269
, fimia, 73	hamster, 243	Goat, 320	gibbon, 57
Fulvo-rufescens, felis, 150	, black, ib.	, african, 313 322	jerboa, fiberian, 274
Fulvus, cercopithecus, 73	hound, 133	, angora, 321	kanguroo, 197
, mus pilorides, 227	marmot, 243	antelope, 315	mangouste, 159
Furet, 180	ftag, 298	, african, ib.	feal, 126
putois, ib.	Germanicus, cervus, ib.	, bezoar, 316	fiberian jerboa, 274
Furo, ib.	, cricetus, 243	, blue, 306	water dog, 131 134
, mustela, 179	, niger, ib.	, cabonas, 323	Great-eared bat, 93
Furunculus, mus, 254	, cuniculus, 253	, capricorn, ib.	monkey, 82
, myodes, ib.	Getulus, sciurus, 262	, caucafan, 321 324	Greater bull-dog bat, 97
, fciuroides, 262 Fusca, fimia, 74	Geys, 321 Ghainouk, 338	, common, 321 , domestic, ib.	molucca oposlum, 191
	bos gruniens, ib.	, dwarf, 322	otter, 173 Gredin, 131
, talpa, 202 , viverra, 173		, greenland, 297	Green monkey, 66
Fuscus, cercopithecus, 74	Gibbo unico, balaena gibbo- fa, 359		Greenish monkey, 73
, delphinus phocaena,	Gibbon, 57	, he, 321 , juda, 323	Greek hunting dog, 134
363	, grand, ib.	, long-eared, 322	Greenland buck, 297
, glis, 250	, great, ib.	monkey, 73	common whale, 356
, homo, 46	, leffer, ib.	, mountain, 324	deer, 293
, lemur macaco, 86	, filvery, 58	, musk, 292	goat, 297
, mongoz, 85	, finall, 57	, rock, 324	rein deer, 293
, mus, 250	Gibbis fex, balaena, gibbo-	, fhe, 321	Gregalis, mus, 237
, urfus arctos, 184	fa, 359	, fiberian, 330	Gregarious mouse, ib.
	Gibbofa, balaena, ib.	, fpotted, 317	Grēgarius, mus, 238
G	Gigantea, didelphis, 197	, fyrian, 322	Grey bear, 184
Galera, 175	Giganteus, macropus, ib.	, tartarian, 321	blunt-nofed cachalot,
, brownish, ib.	Gigantic jerboa, ib.	, whidaw, 322	361
, mustela, ib.	Gilded mole, 203	, wild, 319 320 324	bulls, 309
fubfusca, ib.	Gimmers, 325	, wood, 318	coati, 186
Galleopithecus, 80	Fivves, 345	, yellow, 311	deer, 304
Gallica, viverra, 167	Giraffa, 305	Golden mole, 203	fox, 143
	В	b b. 2	

Grey hunting dog, 137	Guiana martin, fmall, 177	Hamster, fand, 244	Hedge-hog, wild, 215
labradore shrew, 206	opostum, 194	, fiberian, 242	Heifer, 322
mole, 200	otter, fmall, 174	, fongar, 245	Heifege schaaf, 329
mongouz, 85	fquirrel, 265	Hamsters, 242	Helvus, vespertilio vampy
fajou, 77	urchin, 209	Hardy shrew, 203	rus, 9
fquirrel, 258	Guianenfis, didelphis, 194	HARE, 277	Hemionos, 343
, larger virgi-	, lutra, 174	Hare, 277 280	Hemionus, 342
nian, ib.	, muftela, 177	, alpine, 279 283	, equus, ib.
, leffer, 259	Guib, 317	, american, 279 280	Hepoona-roo, 269
weafel, 164	Guigna, 149	, baikal, 280	Herifon, 209
Greyhound, 134	Guinea antilope, 318	, black, 279	Hermaphrodita, viverra
, common, ib.	coney, 219	, brafilian, 282 283	160
, italian, 135	deer, 304_	, calling, 283	Hermaphrodite fallow deer
, irish, 134	, fmall, 293	, chilefe, 280	29
, oriental, 135	fox, 175	, common, 277	fitchet, 16
, rough, 134	hog, 351	, daurian, 280	Hermeline, 181
, turkish, ib.	mufk, 293	, flying, 269	Hermine, ib.
Greyish otter, finall, 174	pig, 219 220	, horned common, 278	Hideux, fanglier, 353
Grief, 26	fheep, 328	, hudfons-bay, 280	High-finned cachalot, 36
Grimm, 318	Guineensis, aries, 328	, indian, 273	36
Grimmia, antilope, 318	, cervus, 304	, java, 218	Hind, barallou, 304
, capra, ib.	, cuniculus, 219	, leaping, 275	, favanna, ib.
, moschus, ib.	, ovis aries, 328	, long-tailed, 273	, wood, ib
Gris, petit, 258	, porcus, 35 I	, mountain, 283	Hinnus, 345
Grifeo-flavescens, canis, 136	Gulo, 190	, ogotona, 284	, equus, ib.
, felis, 151	albus, urfus, ib.	of patagonia, 220	Hippelaphus, 298
Grifeus, mus, 250	, urfus, 189	, peruvian, 277	, cervus elaphus, ib
, urfus arctos, 184	Gundi, 254	, fpurious varying, 279	mas, 299
Grison, 164	, arctomys, ib.	, varying, 278 279	Hippopotame, 347
Groenlandica, balaena, 356	Gutturofa, antilope, 310	, white, 279	Hippopotami, ib.
, mystice-	, capra, 311	, yellow common, 278	Hippopotamo, ib.
tus, ib.	, caprea campef-	Hare-like coney, 280	HIPPOPOTAMUS, 346
, capra, 297	tris, ib.	moufe, 218	Hippopotamus, 347
nigra, phoca, 152	Gyraffa, 305	Hare-lip bat, 93	, amphibious, ib
, phoca, ib.		Hare-lipped monkey, 65	amphibius, ib.
Groenlandicus, cervus ta-	Н Н	Hare-tailed mouse, 240	, improper, 117
randus, 297	Haartloper, 353	Hares having no tails, 282	, species of, 34
	Haas, fpringen, 275	, horned, 278	terrestris, ib:
256	Hackeny, 342	with tails, 277	Hircina, fimia, 73
Ground fquirrel, 262 263	Hairy american porcupine,	Harnaffed antilope, 317	Hircine monkey, ib.
, american, 263	. 215	feal, 127	Hircinus, cercopithecus, ib
, afiatic, 262	maltefe dog, 132	Harp feal, 125	Hirco-cervus, 330
Gruniens, bos, 337	Half afs, 343	Hart, 298	Hircus, 321
ecornis, bos, 338	Hamadryas, cercopithecus,	Hart-beest, 314	africanus, 313
ghainouk, bos, ib.	63	Harts, king of the, 318	bezoardicus, 316
farlyk, bos, ib.	, urfinus, ib.	Harvest mouse, 230	, capra, 321
Grunting ox, 337	, fimia, ib.	rat, ib.	domesticus, ib.
, hornlefs, 338	, urfina, ib.	Haftatus, vespertilio, 92	ferus, 324
Guachi, 172	Hammel, 325	Haut, 101	gazella, 320
Guajanensis, sciurus, 265	Hamster, 243	He afs, 344	laniger, 330
Guanaco, 290	, baraba, 245	goat, 321	orientalis, 331
Guariba, 75	, black, 243	Heart feal, 125	Rupicapra, 307
Guavera, 339	, german, ib.	Heart-nofed bat, 92	Hirsch ihre koenige, 318
, bos bubalus, ib.	, cape, 247	Hedge coney, 280	Hirsch-camel, 289
Guepard, 150	, german, 243	Hedge-hog, 209	Hirsch-eber, 334
Guevei, 318	, black, ib.	, american, ib.	Hirfutus, canis grajus, 13.
Guevel-cajor, ib.	, oriental, 253	, aliatic, 210 211	Hispaniae novae, sciurus
Guiana badger, 161	, orientalifcher, ib.	, common, 209	20.
hedge-hog, 209	rat, 243	, guiana, ib.	Hispanica, ovis, 327
martin, 177	rice, 245	ilberian, 210	aries, ib.

Hispanicus campestris, ca-	Homo patagonicus, 46	Huner-hund, 134	Ibex, beardlefs, 310
nis, 131	plagiocephalus, ib.	Hunter, 342	, capra, 324
, canis, ib.	fapiens, 44	Hunting dog, fagacious, 133	imberbis, 310
, caper, 321	fylvestris, 56	, grey, 134	parvus, 322
, felis catus, 154	troglodytes, 55	, greek, ib.	Ichneumon, 159 162
Hispida, phoca, 125	Hooded rabbit, 282	, fcotch, ib.	, african, 160
quadrata, phoca, ib.	feal, 124 126	leopard, 150	, cafrarian, 159
Hispidus, vespertilio, 95	fquirrel, 267	Hvalfisk, 356	, egyptian, 158
Hoang yang, 311	Hook-toothed fliarp-nofed	Hvid fisch, 361	, indian, 159
Hoary ape, 64	cachalot, 361	Hyaena, 138 139 165	, viverra, 158 159
dormoufe, 270	Horned bat, 91	aethiopicus, canis,	Iceland, chien d', 131
marmot, 252	common hare, 278	139	common whales 35
fquirrel, 270 271	hares, ib.	antiquorum, 138	fheep, 327
Hoedus, 321	hog, 354	ı, abyflinian, 139	Ichiatl, 289.
Hog, 349	fapajou, 77	, canis, 138	Ictis, 180
Hog, 325	Hornless grunting ox, 338	crocuta, canis, 139	Igel, 209
, african, 353	sheep, 326	, fpotted, 139	Ignavus, 201
, cape-verd, ib.	. Horns, hogs with, 354	, ftriped, 138	Ignotum, animal, 316
, chinefe, 351	Horse, 341	of the ancients,	Ikorn, 255
, common, 350	Horfe, 341	138 165 166	Iltnis, 179
domestic, 351	, blood, 342	, odoriferous, 166	Imberbis, homo, 46
deer, 30F	, chilese, 346	Hyberna, mustela erminea,	, ibex, 318
, domestic; 350	, common, 341	181	Inauris erinaceus, 209
, elephant, 348	, domestic, ib.	Hybernicus, canis curforius,	Indes orientales, chevro
, ethiopian, 353	, draught, 342	134	tain des, 29
, guinea, 351	, pack, ib.	Hybrid zebra, 346	India lidmee, 320
, hedge, 209	, road, ib.	Hybridus, camelus, 289	Indian antelope, 315 319
, horned, 354	, fea, 347	, canis, 132	antilope, 317
, javan, 351	, fpecies of river, 348	, equus zebra, 346	badger, 188
, largest marsh, 220	, war, 342	, lepus variabilis, 279	buffalo, little, 335
, mexican, 352	whales, 118	Hydrochaeris, 220	cercopithecus, 85
rabbit, 216	, wild, 341	, fus, ib.	coney, 273
, river, 220	Horfe-shoe bat, 99	Hydrochaerus tapir, 348	, female, 219
, fiam, 351	, larger, ib.	HYRAX, 285	, fmall, 217
, fingle-hoofed, ib.	, fmaller, ib.	, capenfis, ib.	, taillefs, 219
stag, 301	Horfe-whales, 118	, fyriacus, ib.	deer, 304
, wild, 350	Horfes, river, 347	Hystrix, 212	dog, fmall, 135
Hog-faced ape, 59 61	, wild, 341	americana, 213	flying-fquirrel, 269
Hoggish baboon, 61	Hound, 133	brachiura, 210	, black, it
Hogs, 325	, german, ib.	cristata, 212	, red, ib.
, strange, 354	Howling baboon, 75	europaea, 213	fox, 144
with horns, ib.	Hual-hund, 364	indica, ib.	hare, 273
Hoitztlacuatzin, 214	Huanacu, 290	orientalis, 212	ichneumon, 159
Номо, 44	Huanacus, camelus, ib.	dorfata, 215	lizard, 107
afer, 45	Hudsonia, marmota, 254	alba, ib.	memina, 293
albus, 46	Hudfonius, cavia, 215	hudfonius, ib.	mufk, 292
alpinus, ib.	, hyftrix, ib.	macroura, 215	ox, 334
americanus, 45	, lepus, 280	malaccenfis, 210	porcupine, 213
asiaticus, ib.	, mus, 242	mexicana, 214	roe-buck, 304
badius, 46	, petaurus, 267	novae hifpaniae, ib.	fcaly-lizard, 107
cupreus, ib.	, fciurus, 258 267	orientalis, 215	fheep, 328
europaeus, 45	Hudfon's marmot, 254	fingularis, ib.	walrus, 118
ferus, 44	Hudfon's-bay cavy, 215	prehenfilis, 213	wild-cat, 170
fufcus, 46	hare, 280	major, ib.	Indianischer maulthier, 34
imberbis, ib.	porcupine, 215	minor, ib.	wolf, 138
Lar, 57	fquirrel, 258	torofa, 216	India, capra, 322
macrocephalus, 46	Huidobrius, caftor, 224		, gazella, 315 316
monorchides, ib.	Hump whale, 359	I	, hystrix cristata, 21
monstrofus, 45	Hump-back whale, ib.	Ibex, 324	mambrina, capra, 32
niger, 46	Humped whale, ib.	alpium fibiricarum, ib.	zebra, 345

Indicus, aper, 354	Jaculus, mus, 273	Juda, other buck of, ib.	Kolonok, 185
, bos, 338	Jærven, 190	Jupiter fisch, 358	Korowa, morskuia, 123
, camelus, 305	Jagdhund, teutscher, 133	Juvenca fylvestris, 340	Korfaki, 142
, cervus, 304	Jaguar, 149	Juvencus pergracilis, 293	Kors-raef, 144
, cuniculus, 215 273	Jaguara, ib.		Koulan, 343
, equus, 345	Jaguarete, ib.	K	Koupara, 195
femina, cuniculus,	Jalopes, 317	Kabaffou, 114	Knobbelfisch, 359
219	Jarf, 190	Kakurlacko, 55	Knotenfisch, ib.
lepus, 273	Java flying-squirrel, 268	Kalan, 171	Кдоходая, 138
major, bos taurus,	hare, 218	Kameuni baranni, 331	Keonovaus, ib.
334	weafel, 175	Καμιηλος αξαβιος, 287	Kron-hiort, 298
minimus, do. 334	Javan cavy, ib.	βακτρος, 289	Krylatca, 125
minor, d°. ib.	coney, ib.	Kamtschatka mouse, 242	Ковог, 63
., moschus, 292	hog, 351	Kamtschatkan marmot, 254	Kunin, 281
, porcus, 354	mulk, 294	Kanguroo, 197	Kuroze φαλα, 59
, fatyrus, 55	opostum, 197	, great, ib.	Kutu, africanischer, 319
, sciurus, 261	fhrew, 205	rat, 198	L
, fuckotyrus, 114	fuckotyro, 114 weafel, 183	Kanguru, 197	Labialis, vespertilio, 93
, tragulus, 293 , urfus, 188	Javanica, mustela, 183	Kanguruh, ib.	
, vulpes, 144	, viverra, 175	Kant-chil, 293	Labradore flying-fquirrel
Indostan antilope, 309	Javanicus, moschus, 294	Καπξύς, 350 Karagan, 143	jerboa, 276
Indri, 84	Javari, 352	, canis vulpes, ib.	jerboid rat, ib.
, lemur, ib.	Javelin bat, 92	fox, ib.	mouse, 242
Introduction, linnaean, 11	Javensis, cuniculus, 218	, vulpes, ib.	fhrew, 206.
Inuus, fimia, 58	Jazwiec, 186	Καςτος, 22Ι	, grey, ib.
Iognos, 298	Jelen, 298	Kaze, blaue, 154	fquirrel, 258
, ελαφος, ib.	Jerbo, 274	, genith, 167	Labradorius, dipus, 276
'Ιππελάφος, ib.	JERBOA, 272	, wilde, 153	, urfus, 187
14200, 341	Jerboa, 273 275	, ziberthartige, 188	Lachtak, 126
жотамиоs, 347	, arabian, 273	Kayopollin, 193	Lagopus albus, vulpes, 144
Irifh elk, 296	, cape, 275	Keillie, 332	, canis vulpes, 143
greyhound, 134	, calpian, ib.	Κειζοπιθηκος,, 61	cerulescens, vulpes,
Iron pig, 108	, circaflian, 276	Kemas, 307	144
Ifatis, 144	, common, 272	Knuas, 308	Lagurus, mus, 239
Islandica, balaena mystice-	, egyptian, 274	Kenlie, 140	Lait, cochon de, 311
tus, 357	, gigantic, 197	Keedw, 141	Lamantin, 119 120
Islandicus, canis, 131	, grand, 275	Ker-kammanon, 347	Lamb, 325
Israel, agnus filiorum, 273	, great fiberian, 274	Kevel, 313	of the children of
, daman, 273 274	, labradore, 276	Kevella, antilope, ib.	ifrael, 273
, lamb of the children	, marsh, ib.	Killer, 364	Laland mouse, 238
of, 273	, middle fiberian, 274	King Charles dog, 131	Land bear, white, 184
Italian greyhound, 135	, pigmy fiberian, 275	fpaniel, ib.	moufe, 238
porcupine, 213	, fiberian, 274	monkey, 74	urchin, 209
Italicus, canis grajus, 135	, fmaller fiberian, ib.	of the harts, 318	Laniarius aprinus, canis, 135
T	Jerboid-rat, circaffian, 276	Kingdom, animal, 24	, canis, ib.
I d Cd C	, labradore, ib.	Kinkajou, 169	, fuillus, canis, ib.
Jacchus moschata, simia, 80	Jiya, 172	Kirgificus, aries, 328 329	Laniger, aries, 325
mofchatus, fugoinus,	Jocko, 56	Kiriwoula, 95	, hircus, 330
, fagoinus, ib.	, fimia fatyrus, ib.	Klapmus, 126	, lemur, 88
	Joy, 26	Klapper mans 160	, mus, 238
, fimia, ib. Jachals, 139	Jubata, felis, 150	Klapper-maus, 160 Kleines windspeil, 135	, mustela, 177 peruvianus, came-
Jackal, 140	, myrmecophaga, 105	Klipdas, 285	
adive, 141	, ovis aries, 330 , phoca, 123	Klipspringer, 312	lus, 291 , phoca, 128
, barbary, ib.	fima, myrmecopha-	Kob, 307	Lant, 335
, cape, 150	ga, 105	, antilope, ib.	Lapin, 281
Jackhals, ib.	Jubartes, 358	Koba, 314	d'angora, ib.
Jaculus, 275	Juda, buck of, 322	, antilope, ib.	fauvage, ib.
, dipus, 272	goat, 323	Koenige, hirfche ihre, 318	Lapland marmot, 241
1	3 -5-5-5	3,, 510	1

ar argentea, fimia, 58	LEMUR, 83	Lej
		110
, homo, 57	bicolor, 87	
minor, fimia, ib.	brown, 86	
, fimia, ib.	Catta, 87	
arge feal, 126	ecandatus, 84	
tiger, 149	Indri, ib.	
arger agouti, 218	laniger, 88	
american porcupine	Macaco, 86	
. 213	albus, ib.	
arctic bear, 185	fuscus, ib.	
axis, 300	niger, ib.	
brasilian mouse, 216	variegatus, ib.	
porcupine, 213	Mongoz, 85	
cagui, 81	albipes, ib.	
cercopithecus, 65	cinereus, ib.	
common whale, 357	fuscus, ib.	
cuandu, 213	maurus, ib.	
domestic mouse, 228	negro, ib.	
field moufe, 230 235	murinus, 87	
filbert moufe, 271	Podje, 83	
flying fquirrel, 267	Potto, 85	
grey virginian fquir-	prehenfilis, 88	
rel, 260	, taillefs, 84	
horse-shoe bat, 99	tardigradus, 83	
		Tax
malabar fquirrel, 260	volans, 89 199	Ler
moufe, 217 220	Lena moufe, 242	Ler
fealy armadillo, 107	Lenae, mus, ib.	Ler
floth, 81	Leo, 146	Lef
flinking fox, 192	, felis, ib.	
variegated fquirrel,	marinus, 123	Lef
262	Leonina, phoca, 122	
water moufe, 235	Leonine feal, 123	
wild dog, 195	Leoninus, canis, 132	
argest armadillo, 112	Leopard, 148	
flying fquirrel, 269	, hunting, 150	
marth hor 220	l'effer 149	
marsh hog, 220	, leffer, 148	
oriental philander,	Leopardalis, ib.	
191	felis, ib.	
ascopterus, vespertilio,	Leopardis, ib.	
100	, felis, ib.	
asiurus, vefpertilio, ib.	Leopardus, 147	
ntax, 173	Lepores cornuti, 278	
aticauda, ovis, 329	Leporina, cavia aguti, 218	
aticaudata, ovis aries, 328	, phoca, 128	
atus sciurus, 268	Leporine feal, ib.	
aubba, 216.	Leporinus, cuniculus, 280	
eaf bat or	_	
eaf bat, 92	, mus, 218	
eat-nofed bat, ib.	, vespertilio, 93	r
eaping coney, dwarf, 273	Lepturus, vefpcrtilio, 98	Leu
hare, 275	LEPUS, 277	Leu
moufe, 273	albiflimus, 279.	Leu
east ant-eater, 104	albus, ib.	
em, 241	alpinus, 283	Leu
it-hund,133	americanus, 279	
emming, 240 241	brafilienfis, 282 283	Leve
, fiberian, 241	candidus, 279	Leve
emmus, ib.		11C V
•	capenfis, 281	T
, mus, 240	cunniculus, 281	Levi
rat, 241	angorenfis, 282	Lidi
fibiricus, mus, ib.	domesticus, 281	

L

L

L

La

La

La

La

Le

Le

Le

Le

Lo

Le

Le

```
pus cuniculus domesticus
              albus, 281
        dom. argenteus,
                      ib.
              niger, ib.
              variegatus,
                      ib.
        ferus, ib.
        rufficus, 282
   dauricus, 280
   hudfonius, ib.
   indicus, 273
   longicaudatus, ib.
   minimus, 280
   niger, 279
   ogotona, 284
   pufillus, 283
   timidus, 277
        cornutus, 278
        mclinus, ib.
   Tolai, 280
   variabilis, 273
        hybridus, 279
   Viscaccia, 277
rot, 271
rwee, 307
rwia, antilope, ib.
fs long-tailed field moufe,
                    230
ffer agouti, 217
  bull-dog bat, 97
  cachalot, 360
  cagui, 80
  cercopithgeus, 82
 field mouse, 230
 filbert moufe, 272
 fox, 161
 gibbon, 57
 grey fquirrel, 257
 horse-shoe bat, 99
 leopard, 148
 mangouste, 139
 mar!h rabbit, 216
 otter, 173
 red moufe, 237
 fpalax, 246
 vampire, 91
 water dog, 131
icas, delphinus, 364
icophaea, antilope, 306
icoryx, 316.
     , antilope, ib:
icourus, fciurus vulgaris,
erian armadillo, 111
erianus pygmaeus mof-
             chus, 294
rier, 134
mee, 319
     arabum, 320
```

```
Lidmee of barbary, 320
           india, ib.
Lievre, 277
Linnaean dedication, 9
          introduction, II
Lion, 146
     , american, 150
       dog, 132
       marin, 123
       monkey, little, 8x
Lien-monfter, 103
Lion's provider, 140
Lion-tailed baboon, 64
Lioorne, 356
Liricaudatus, forex, 208
Lift of editions, 14
Little ant-eater, 104
       baboon 59
       bearded men, 65
       brown cow, 307
       cat of the fury, 261
       danish dog, 132
       earth dog, 252
       fox, 162
       indian buffalo, 335
       lion monkey, 81
       maucauco, 88
       feal, 126
       tamanoir, 106
Livea, papio, 62
      , fimin, ib.
Lizard, indian, 107
                fealy, ib.
Llama, 289
Loir, 270
Long-armed ape, 57
                 , leffer, ib.
Long-cared bat, 93
            goat, 322
            urchin, 218
Long-headed cat, 155
Long-legged moufe, 275
Long-necked feal, 127
Long-nofed bear, 161 188
            beaver, 204
            cavy, 218
            monkey, 72
            rabbit, 218
            tapir, 348
Long-tailed armadillo, 112
          baboon, 65
          field mouse, 230
                  , less, ib.
          mare, 273
          manis, 107
          mole, 202
          porcupine, 215°
          theep, 329
          fquirrel, 260
Long caudata, talpa, 202
```

Longicaudata, ovisaries, 329	Lybian lynx, 156	Macroura, hystrix, 215	Major, urfus arctos, 191
Longicaudatus, dafypus,	Libiensis, lynx, ib.	Macrourus, sciurus, 260	, vespertilio moloffu
112	Lycaon, canis vulpes, 141	Maculata, didelphis, 199	,
, lepus, 273	, vulpes, ib.	, meles, 187	ferrum-equ
Longimana, fimia, 57	Lynces, 155		_
		, phoca, 128	Nalahan fanimal 262
Longipes, mus, 275	Lynx, 157	, talpa, 200	Malabar squirrel, 260
Loris, 83	, alba, vulgaris, ib.	, urfus meles, 187	, larger, il
Los, 296	, american, 158	, viverra, 170	Malacca hedge-hog, 210
Lotor, urlus, 188	, barbary, 156	Maculatus, cervus axis, 300	porcupine, ib.
Loup, 136	, bay, 158	, porcinus,	urchin, ib.
de mer, 123	, bengal, 156	301	Malaccenfis, erinaceus, ib.
marin, 122 126	bengalenfis, ib.	, lynx vulgaris, 157	, porcus aculeatus, il
renard, 144	, booted, ib.	, mus amphibius,	, hystrix, ib.
Lowando, 64	canadenfis, 157	236	, viverra, 170
, white bearded, ib.	, canadian, ib.	, mexicanus, 234	Malayan civet, ib.
	caracal, 156	Madagafcar bat, 88	fitchet, ib.
Luchs, 157			
Λυκια, 321	, caspian, 155	maucauco, 87	Malbrouk, 65
Λυκος ξανθος, 140	Chaus, ib.	ox, 335	Male african mouse, 193
2805805, ib.	, common, 157	fquirrel-ape, ib.	roe deer, 302
Lupo nero, 141	, Felis, 155 157	tendrac, fmall, 210	zebra, 345
Lupus, 136	, lybian, 156	weefel, 175	Maltese dog, hairy, 132
, albus, 137	lybienfis, ib.	Madagascarensis, bos tau-	, fmall, 131
aureus, 140	, maculata, vulgaris,	rus, 335	Mambrica, capra, 322
, canis, 136	157	, felis catus, 155	Mambrina, ib.
cervarius, 157	, melina, vulgaris, ib.	, sciurus, 265	, capra, ib.
fasciatus, 137	montana, 155	, fimia-sciurus, 87	.indica, capra, ib.
flavus, ib.	, mountain, ib.	Mafutiliqui, 164	fyriaca, capra, il
marinus, 138	nubiensis, 156	Magellanica, cavia, 220	MAMMALIA, 33
mexicanus, ib.	, persian, ib.		, catalogue of, 3
		Magot, 58	
albus, ib.	rufa, 158	Magu, 79	, genera of, 40
niger, 137	, thibet, 157	Maikel, 164	, orders of, 38
Thous, 138	vulgaris, ib.	Maimon, 59	, species of, 44
Lurcher, 135	alba, ib.	, papio, 61	Mammouth, 118
, boar, ib.	maculata, ib.	, fimia, ib.	.Man, 44
, rough, ib.	"melina, ib.	Maipouri, 348	, african, 45
Luscus, ursus, 189	, white, ib.	Major, balaena, 356 362	, american, ib.
Luteola, fimia, 73	, yellow, ib:	, macrocephala,	, afiatic, ib.
Luteolus, cercopithecus, ib.	LYNXES, 155	360	, black, 46
Lutra, 173	Lysters squirrel, 263	, mysticetus, 35.7	, brown, ib.
aegyptiaca, 159	7 1. 7 3	, bos taurus indicus,	, copper-coloured, il
brafilienfis, 172	M	334	, description of, ib.
canadensis, 173	Macaco albus, lemur, 86	, canis aquaticus, 13.1	, european, 45
chilenfis, 172	.fuscus, lemur, ib.	, fylvestris, 195	, monstrous, ib.
fulva, 173	, lemur, ib.		, observations on, 44
		, cervus, 303	of the woods, 62
guineenfis, 174	niger, lemur, ib.	, axis, 300	, fapient, 44
Lutris, 171	variegatus, lemur, ib.	, dipus fibiricus, 274	
marina, ib.	Macarib, 297	, hystrix prehensilis,	, tawny, 46
minor, 173	Macaque, 65	213	, wild, 44
Minx, 174	Machlis, 295	, mus, 220	, white, 46
., mustela, 173	Macquis à bourres, 83	, agreftis, 235	Manati, 119 120
nigra, 172	Macra, balaena, 359	, aquaticus, ib.	, round-tailed, 119
nigricans, ib.	Macrocephala, balaena, 362	, avellanarum,271	, whale-tailed, 120
paraguenfis, ib.	major, balaena, 360	, brafilienfis, 216	Manatus, 119
pifcatoria, ib.	Macrocephalus albicans,	, campestris, 230	australis, trichechu
LUTRÆ, 171	phyfeter, 361	, domesticus, ib.	il
Lutreola, mustela, 173	cinereus, phyfeter, ib.	putoria, vulpes, 192	borealis, trichechu
, viverra, ib.	, homo, 45	, sciurus variegatus,	12
Lutris, 171	niger, physeter, 360	262	firen, trichechus, il
, lutra, ib.	, phyfeter, ib.	volans, 267	, trichechus, 119
Luyart, 101	Macropus giganteus, 197	, fpalax, 248	Mandril, 61
	5'5" III VIII 191) :[

Maned feal, 123	Marmot, kamtschatkan,		Mexican hog, 352
flag, 298	lauland 247	yellow, 169	mouse, 234, spotted, ib.
Mangabey, 67, collared, ib.	, lapland, 241 , maryland, 250	Maulefel, 345 Maulina, arctomys, 254	oposium, 193
Mangouste, great, 159	, mountain, 249	Maulinus, mus, ib.	porcupine, 214
, lesser, ib.	, podolian, 248	Maulthier, indianischer,	fhrew, 207
Mangutia, mustela, ib.	, polifh, 250	345	fquirrel,257 264 265
, viverra, ib.	, quebec, 251	Maura, fimia, 72	tiger-cat, 151
Manipouri, 348 Manis, 107	, ftrafburg, 243 , taillefs, 254	Maurus, cercopithecus, ib.	weafel, 169 wolf, 138
, five-toed, ib.	Marmota alpina, 249	Maximus, dafypus, 112	, white, ib.
, long-tailed, ib.	americana, 250	palustris, sus, 220	Mexicana, felis, 151
pentadactyla, ib.	, arctomys, 249	, philander orienta-	, hystrix, 214
, fhort-tailed, ib.	argentoratenfis, 243	lis, 191	, tamandua, 162
tetradactyla, ib.	, glis, 249	, sciurus, 260	Mexicanus, aper, 352
Mantegar, 60 Manul, 152	, mus, ib. polonica, glis, 250	, volans, 269 Maxtlaton, tepe, 151	, canis lupus, 138
cat, ib.	Marmotte, 249	Mazame, 307 317	, lupas, 138
, felis, ib.	, volant, 97	, cervus, 303	, albus, ib.
Many-horned theep, 327	Maron, 350	Meadow mouse, 238	, maculatus, mus, 234
	Marsh hog, largest, 220	water rat, 235	, mus, ib.
Mapurito, 164 , viverra, ib.	jerboa, 276 rabbit, lesser, 216	Medius, dipus fibiricus, 274, mus domesticus,	, sciurus, 257 264 Mice and Rats, 226
Maracaja, 151	water rat, 235	, mus domerricus,	Michuacanens, 136
Maraguao, ib.	Marfouin, 363	Mediterranean seal, 124	Mico, 82
Maraputa, 155	Marsupialis, didelphis, 190	Mediterraneus, vitulus, 126	Microphthalmus, fpalax,
Marapute, 153	Martes, 176 177	Meer-rat, 160	248
Marcaim, 350	abietum, 177	Mecr-schwein, 353	Microps falcidentatus, phy-
Marder, 170 177 Mare, 342	domestica, 176 , mustela, 177	Mε. ζων, παεδαλ, 147 Mejangan, banjee, 301	feter, 361, phyfeter, ib.
Margay, 151	fylvestris, ib.	Meles, 165 186	rectidentatus, physe-
Marikina, 82	Martin, 176	alba, urfus, 187	ter, 362
Marin, cheval, 347	, cayenne, 177	maculata, urfus, ib.	Microurus, mus, 239
, i on, 123	, common, 176	, urfus, 186	Midas, sagoinue, 82
, loup, 122 126	, guiana, 177	Melina, muftela, 183	, finia, ib.
, veau, 123 126 Marina, lutra, 171	, philippine, 165	Melinus, lepus timidus, 278	Middle axis, 300 domestic moufe, 230
Marinum, unicornu, 356	, pine, 177 , finall guiana, ib.	, lynx vulgaris, 157 , urlas lotor, 180	fiberian jerboa, 274
Marinus, equus, 117	, spotted, 170	, vespertilio cepnalo-	Migrating mouse, 243
, leo, 123	, yellow-breafted, 177	tes, 98	Migrator us, mus, ib.
, ursus, 121 185	Martlet, 176	Melitaeus, canis, 132	Mmimus indicus, bos tau
, vitulus, 123 126	Maryland marmot, 250	parvus, canis, 131	rus, 335
Maritima, myotalpa, 247 Maritimus albus, urfus, 285	Mastier courier, 340 Mastiff, 133	pdofus, canis, 132 Mellivora, viverra, 169	, lepus, 280 , fc:urus, 266
, urfus, ib.	dog, ib.	Mem.n., 294	Minor, balaena, 360 364
Marmofe, 194	Mastivus, ib.	, céylon, ib.	, canis aquaticus, 131
MARMOT, 248	, canis, ib.	, indian, 293	, dipus fibiricus, 275
, african, bastard, 285	Maucauco, 83	Meminna, 294	, hyitrix prehenfilis,
, alpine, 249	, american, 87	, motchus, ib. Men, linle bearded, 65	indicus, bos taurus,
, american, 250 , bastard african, 285	, black, 86 , curly, 88	Wegnits, viverra, 163	335
, canadian, 251	, flying, 89 199	Mer, moine de, 363	, lutra, 173
, cape, 285	, little, 88	Mirian opotlum, 195	, mus agrestis, 230
, cafan, 252 253	, Madagascar, 87	lvIcridianus, dipus, 275	, avellanarum,272
, chilefe, 254	, murine, ib.	, mus, ib.	, campestris, 239
, common, 249 , earlefs, 252 253	, prehenfile, 83 , ring-tail, 87	Mermaid, 119 120 Mesom-las, canis, 140	, domesticus, 229 , rattus, ib.
, german, 243	, ring-tailed, ib.	Messorius, mus, 230	, palustris, cuniculus,
, hoary, 252	, ruffed, 86	Mexican cat, 149	216
hudfons, 254	, taillefs, 84	deer, 303	, rostrata, balaena, 360
Vol. I.	C	c c	

Minor fairms mariagetus	Moleffus vefaertilie of	Mongous, white-handed, 85	Moschus finensis, 295
Minor, sciurus variegatus,		Mongouz, ib.	Grimia, 318
	Molucca, didelphis, 192		Mofe deer, 296
, fpalax, 246	opoflum, ib.	Mongoz, Lemur, ib.	Mosse, 295
, fus, 352	, greater, 191	, albipes, ib.	Mouflon, 331
	Mona, cercopithecus, 70	, cinereus, ib.	Mountain antelope, 312
, vespertilio molossus,		, fuscus, ib.	• •
9.7	Monachus, phoca, 124	, maurus, ib.	, cat, 152
, ferrum-equi-	Monax, 250	, negro, ib.	, american, 13\$
num, 99	, arctomys, ib.	Monguls, dshikketei of the,	
, vulpes, 161	, glis, ib.	342	
Milute moule, 231	Moneus, 159	Monoceros, 355	hare, 283
, yellow, 232		, monodon, ib	marmot, 249
fhrew, 203	gula, 69		moufe, ib.
Minutuscervuselaphus, 299	Monina, 70	phaga, 105	Mountains, roes of the, 313
flavus, mus, 232	Monkey, agile, 72	Monodon, 355	Mouse, american, 227
, mus, 231	, annulated, 74	, monoceros, ib.	, rustic, 231
, forex, 203	, antigua, 79	Movay, 333	, wild, 217
Minx, 174	, bay, 74	Monorchides, homo, 45	, afh coloured, 253
, lutra, ib.	, bearded nodding, 69	Monsters, ib.	, barbary, 234
Moine de mer, 363	, bush-tailed, 77	Monstrosus, homo, ib.	, beech, 232 233
Mole, 199	, chinefe, 69	Monstrous men, ib.	, blue, 235
Mole, 200	, cochin-china, ib.	Montana, lynx, 155	, blind, 205
, american, 201	, dog-headed, 66	Montanus, catus, ib.	, bright-yellow, 271
, afiatic, 203	, dog-tailed, 63	, mus, 249	, brown-afh, 250
, black, 200	, fair, 82	Monungulus, fus ferofa do-	, brown-grey, ib.
, virginian, 202	, fearful, 77	mesticus, 351	, collared, 240
, brown, ib.	, fox-tailed, 80	Moofe, 296	, common, 229
, cape, 247	, four-fingered, 76	Moral observations on man,	, cunning, 232 233
, changeable, 203	, full-bottom, 74	52	, dwarf, 233
, cinereous, 200	, goat, 73	Mormon, papio, 61	, economic, 237
, european, ib.	great eared, 82	, fimia, ib.	, field, 230
, gildcd, 203	, green, 66 73	Moromorus, aries, 291	, filbert, 271 272
, golden, ib.	, hare-lipped, 65	Morfkuia korowa, 120	, flying, 266
, grey, 200	, hircine, 73	Morvant, 330	, garlic, 236
, long-tailed, 202	, king, 74	, chinefe, ib.	, gregarious, 237 238
of the cape, 247	, little lion, 81	Moschatus, bos, 336	, hare-like, 218
of the fand hills, ib.	, long-nofed, 72	, castor, 204	, hare-tailed, 240
, radiated, 201	, negro, ib.	, mus, 233	, harvest, 230
, red, 202	, nodding, 69	, fagoinus jacchus, 80	, kamtschatka, 242
, american, ib.	, orange, 78	, forex, 204	, labradore, ib.
, fiberian, 203	, philippine, 79	Moschi, capra, 292	, laland, 238
, golden, ib.	, preacher, 75	, capreolus, ib.	, land, ib.
, fpotted, 200	, red, 71	Moschiferum, animal, ib.	, larger, 217 220
, tailed, ib.	, red-tailed, 81	Moschiferus canadensis,	, brafilian, 216
, variegated, 200	, royal preacher, 75	mus, 226	, domestic, 228
, white, ib.	, filky, 82	, castor, 204	, field, 230 235
yellow, 201	fpotted, 66	, moschus, 292	, filbert, 271
di mananana ib	, striated, 80	, mus, 204	, water, 235
Mole-rat, african, 247	, tawny, 73	, porcus, 252	, leaping, 273
, black ruffian, 246	, white-cyclid, 67	, tragus, 292 320	, lena, 242
, blind, 248	, white-nofed, 69	Moschus, 292	, lefs long-tailed, 230
, cape, 246 247	, yellowish, 73	americanus, 299	, leffer field, ib.
, dain 1-11, 247	Monkeys, 63	indicus, 293	, filbert, 272
_ , rusiian, 245	Mongalian weafel, 284	javanicus, 294	, red, 237
		, leverianus, pygmae-	, long-legged, 275
, , black, ib. Mole-rats, ib.	Mongous, ib.	us, ib.	long-tailed field,
Moloffus, 132	, black, ib.	meminna, ib.	230
	, black-faced, ib.	moschiferus, 292	, male african, 193
, canis, ib.	, brown, ib.	pygmacus, 293	, meadow, 238
major, vefpertilio, 97		leverianus, 294	, mexican, 234
minor, vespertilio, ib.	, grey, ib.	201011111111111111111111111111111111111	,, -54

Youfe, middledomeftic, 230	Mur
, migrating, 243	
, minute, 231	Mur
, mountain, 249	
, norwegian, 242	Mur
, oak, 271	
, oeconomic, 237	Mur
, oriental, 233	Mur
, palm, 261	Mur
, pig-like, 216	
, pontic, 268	* "
, rambling, 239	Mus
, red, 236 237	
, reddish, 231	
, ringed, 240	
, rock, 234	
, rustic, 231	
, fcythian, 268	
, fhort-tailed field, 235	
Opening like 222	
, fhrew-like, 232 , fmaller field, 239	
, focial, ib.	
, fouthern, 275	
, fpotted mexican, 234	
, striped, 233	
, tamarisk, 276	
, varieties of the, 229	
, wandering, 232	
, white american field,	
234	
ceylon, 227	
, field, 234	
, woolly, 238	
, yellow minute, 232	
Toufe-coloured bat, 93 94	
Toufe-like opoffum, 194	
fhrew, 207	
Noustaclie, 67	
Iuffolo, cane, 132 Iuffon, 331	
Iuflon, 33 r	
1utro, 332	
Iula, 344	
Tule, ib.	
, fecund, 343	
, wild, ib.	
Iulot, 230	
volant, 97	
Iulus, 345	
, equus afinus, ib.	
Aultifulcus, sus aquaticus,	
348 Jungalica, muftela, 284	
	3
Aungo, viverra, 159 Auntjac, 301	
, cervus, ib.	
Tunt-jak, 302	
1vožos, 27I	
Mures, 226	
buccati, 242	_
2444	

A

NINI

N

N

ハルル

I

V

Mures cunicularii, 234	Mus
fubterranei, 246	21260
Murina, didelphis, 194	
, vespertilio, 93	
Murine maucauco, 87	
oposlum, 194	
MURINE QUADRUPEDS, 225	
Murine fhrew, 205	
Murinus, lemur, 87	
, musaraneus, 205	
, forex, 205	
Mus, 225	
agrarius, 231	
americanus, ib.	
agrestis brachiurus,	
235	
major, ib.	
major, 10.	
minor, 230	
albus fylvaticus, ib.	
zeylonicus, 207	
227	
alius, 239	
alliarius, 236	
americanus, 227	
fylvestris, 217	
albus, 234	
amphibius, 235	
maculatus, 236	
niger, ib.	
paludofus, 235	
terrestris, ib.	
aquaticus, 204 228	1
235	
major, 235	
aquatilis, 204	
Arctomys, 250	
arvalis, 238	-
nigricans, 239	
avellanarius, 272	
avellanarum, 271	
major, ib.	
minor, 272	
barabensis, 245	
barbarus, 234	
betulinus, 232	
bipes, 273 274	
brafilienfis major, 216	
campestris major, 230	
minor, 239	
caraco, 227	
cauda pilofa, 270	
citillus, 253	
Cricetus, fee Cricetus	
evanue of "	
eyanus, 235	
decumanus, 228	
domesticus major, ib.	
medius, 230	
minor, 229	
Empetra, 251	
Furunculus, 245	
Cc	¢′2

fuscus, 250 glareolus, 238 Glis, 270 gmelini, 242 gregalis, 237 gregarius, 238 grifeus, 250 hudsonius, 242 Jaculus, 273 longipes, 275 major, 220 Marmota, 249 maulinus, 254 meridianus, 275 messorius, 230 mexicanus, 234 maculatus, ib. microurus, 239 migratorius, 243 minutus, 231 ilavus, 232 montanus, 249 273 moschatus, 233 moschiterus, 204 canadensis, 226 Musculus, 220 Myocastor, see Myocas-Myofpalax, 247 Myotalpa, see Myotalþа oeconomus, 237 orientalis, 233 Paca, 216 palmarum, 26F ponticus, 254 256 268 Porcellus, 219 pumilio, 233 quercinus, 271 Rattus, 228 minor, 229 rubeus, 231 rutilus, 236 minor, 237 fagitta, 273 274 faliens, 274 faxatilis, 234 fcithicus, 268 focialis, 239 foricinus, 232 striatus, 233 fubtilis, 232 233 Suffica, 253 fylvaticus, 230 fylvestris, 195 228 femina, 196 tamaricinus, 276 terrestris, 238 torquatus, 232 240 Tichelag, 242

Mus vagus, 240 virginianus, 234 volans, 266 Mus dimus, 273 Mus-araneus, 205 Musaraneus, ib. murinus, ib. Mufaraigne, ib. d'eau, ib. Muscardin, 272 volant, 96 Muscardinus, myoxus, 271 Muscovy rat, 204 Mufculus, balaena, fee Balaenc , mus, 229 plinii, 356 Mulimon, 331 Musimons, ib. Musk, 292 anima¹, 166 292 beaver, 226 , brafilian, 204 cavy, 227 , formofan, 294 goat, 202 , guinca, 293 , javan, 294 ox, 336 337 , pigmy, 293 rat, 204 226 , canadian, 226 roe, 292 , ftriped pigmy, 294 , thibet, 202 Musky beaver, 204 fhrew, ib. Mufmon, 331 Musquash, 225 226 Musque, boeuf, 337 , rat, 226 227 Mussafcus, 226 Mustela, 171 Mustela, 167 176 afra, 175 africana, 261 barbara, 175 canadensis, 176 candida, 181 daurica, 283 Erminea, 181 aestiva, ib. hyberna, ib. felina, 172 flavescente-nigricans, 179 : Foina, 176 Furo, 179 Galera, 175 glauca, 159

Mustela guajanensis, 177	Myrmecophaga tridactyla,	Niger, mus amphibius, 236	Nostras, erinaceus parvus,
javanica, 183	105	, petaurus petaurifta,	, 209
- laniger; 177	Myrmecophagus fquamo-	269	Novae-angliae, balaena, 359
Lutra, 173	fus, 107	, phyfeter macroce-	, cetus, 361
Lutreola, 10.	Mysticetus aristotelis, 356	phalus, 360	
Mangutia, 159	, balaena, fee Balaena	, sciurus, 257	214
Martes, 177	,, ,	albiroftro, ib.	, fciurus, 264
melina, 183	N	vulgaris, 256	
	Nabbmus, 205	vulgaris, 250	
mongalica, 284		, urfus, 184	Name of the same o
nigra, 162 / 14	Nagor, 308	, arctos, ib.	Novemcinctus, cataphrac-
Peregufna, 180	Naked buffalo, 339	, vefpertilio vampy-	tus, III
praecinéta, ib.	dog, 135	rus, 90	, dafypus, ib.
Putorius, 179	Nana, capra, 323	Night-bat, american, 93	Novemdecemcinctus, cata-
Quiqui, 183	, ovis aries, 326	Nigra, cavia aperea, 219	phractus, 112
rufo-fufca, 190	Nanguer, 308	, felis, 150	, dafypus, ib.
farmatica, 180	Narica, viverra, 161	, lutra, 172	Nfuffi, 152
fibirica, ib.	Narlival, 356	, muftela, 162	Nubienfis, lynx, 156
fubfuca, 165	Narhwal, ib.	, zibellina, 179	Nylgau, 309
fylvestris, 180	NARVAL, 355	, myotalpa talpina,	Nyl-ghau, ib.
variegata, 159	, horned, ib.	246	, ,
Vison, 176	Nafalis, fimia, 8	, phoca, 128	. О
Viverra, 180	Nafua, fimia, 72	1 1	0.1
vulgaris, 182	, viverra, 161	2	Obefa cauda, ovis, 329
		talpa aurapasa aaa	Chefus conis americana
nivalis, ib.	Nafuus, cercopithecus, 72	, talpa europaea, 200	Obefus, canis americanus,
Zibellina, 178	Natural observations on	, virginiana, 202	136
alba, ib.	man, 51	, vulpecula, 141	Observations on man, 49
americana, ib.		, zibellina, 179	Obscure-rufus, philander,
nigra, 179	Negro, lemur mongoz, 85	Nigricans, lutra, 172	196
Mustelæ, 175	monkey, 72	, mus arvalis, 239	Ocelot, 149
Mustelinus, tatu, 112	Neipfe, 160,	Nigritia, vespertilio, 97	Ocelotl, tlatlauhqui, ib.
Musting Tos, 356	Neitfak, 125	Nigrofasciata, simia rubra,	Ochodona daurica anauri-
Mutica, capra, 323	Neitfer-foak, 126	71	nos, 283
Myocaftor coypus, 225	Nemaeus, cercopithecus, 69	Nigrofasciatus, cercopithe-	mungalica, 284
, mus, ib.	, fimia, ib.	cus ruber, ib.	Ochfen, wilde, 336
zibethicus, ib.	Nemestrina, papio, 59	Nims, 160	Octocinctus, cataphractus,
Myocastores, ib.	, fimia, ib.	Nine-bandedarmadillo, 111	I IO
Myodes, furunculus, 245		Nifen, 363	, dafypus, ib
Myofpalax, mus, 247	Nemorofus, cervus, 304	Nifer, ib.	Odobenus, 117
Myofuni 206	Nems, 160		
Myofuri, 226	, viverra, ib.	Nitedula, mus, 271	Odoriferous hyaena, 166.
Myotalpa Afpalax, 247	Nero, lupo, 141	Nitela, myoxus, ib.	Oeconomic moufe, 237
capenfis, 246	New baboon, 62	Nivalis, mustela vulgaris,	Geconomus, mus, ib.
, mus, 247	Newfoundland feal, 125	182	Oedipus, fagoinus, 81
maritima, ib.	New-holland dog, 136	Noctilio americana, 93	, fimia, ib.
talpina, 246	opoffum, 196	Noctula, vefpertilio, 94	Ogotona hare, 284
nigra, ib.	New-fouth-wales dog, 136	Noctule, 94	, lepus, ib.
Typhlus, 248	New-spain, porcupine of,	Nodding monkey, 69	Oil, fpermaceti, 361
MYOTALPÆ, 246	214	, bearded, ib.	, white, ib.
Myoxus, 270	, fquirrel of, 264	Noerza, 173	, whale, 356
Dryas, 271	New-york bat, 99	Noir, cochon, 352	Oixougos, canis, 130
Glis, 270	Nictitans barbata, fimia, 69	Nord-kapper, 357	Οις αξαβιος, 329
Nitela, 271	barbatus, cercopi-	Noricus, mus, 253	έανθον, 330
Muscardinus, ib.	thecus, ib.	Norfolcensis, petaurus, 270	Oistiti, 80
Myrmecophaga, 104	, cercopithecus, ib.	Norfolk-ifland flying-fquir-	Ολιγοτερα, παρδαλις, 148
capenfis, 106	, fimia, ib.	rel, ib.	Onager, 343
didactyla, 104		Norway rat, 228	, equus, ib.
	Niger, canis lugus, 137		Orangos ib.
jubata, 105	, cricetus, 243	Norwegian coney, 241	
finia, ib.	, gern.anicus, ib.	moule, ib.	Onagrus, ib.
menodactyla, ib.	, homo, 46	rat, 228	Onca, 149
pentadačty ia, 106	, lemur macaco, 86	Norwegicus, cuniculus, 241	, relis, ib.
tetradactyla, ib.	, lepus, 137	, mus, 228 241	Once, 150
. , ,) I) - J /		

Ovis domestica 22"

Orientalis, bircus, 221

Ondatra, 226

Ondatra, 226	Orientalis, hircus, 331	Ovis domestica, 325	Paludofus,
One-horned rhincceros,	, hystrix, 215	fera fibirica, 33	,
113	, cristata, 212	gotlandica, 327	
Ovos, 344	fingular's, 215	hifpanica, 327	Palustris, f
Onza, 149	maximus, philander,	laticauda, 329	Pangolin,
Ophion, 331	191	peruana, 289	Paniscus, s
Ophuaga, 346	, mus, 233	πλατυκίζως orientalis,	, í
Opossum, 190	, ovis πλατυπέςως, 329	329	Panther, 1
Opossum, 192	Orientalischer hamster, 253	platyceros, ib.	Panthera,
, amboina, 191	Orientalisches schaaf, 331	Pudu, 332	Panterinus
, black flying, 199	Orignal, 206	rustica, 326	Papio, 60
, brafilian, 191	Oryx, 315 316	fexcornis, 327	aped
, cayenne, 195	, antilope, 315 317	fibirica fera, 331	cine
, crab-eater, ib.	Otter, 173	frestory as 222	crift
, Didelphis, 192	, black, 172 174	fteatopyga, 328 329 tricornis, 327	livea
, flying, 199	, blackish, 172	ticharles Tes	
blook !!	, brafilian, ib.	tscherkessica, 329	Maii
, greater molucca, 191	oranian, io.	turcica, ib.	Mor
	, canadian, 173	Ox, 332	nem
, guiana, 194	, cayenne, 174	Ox, ib.	porc
, javan, 197	, chilefe, 172	, abyflinian, 335	platy
, merian, 195	, common, ib.	, adel, ib.	Sph
, mexican, 193	, egyptian, 159	, american, 336	fylvi
, molucca, 192	, greater, 173	, cape, 339	varie
, greater, 191	, lesser, 173	, common, 332	Papion, 60
, mouse-like, 194	, fea, 171	, domestic, 334	, pe
, murine, ib.	, finall greyifh, 174	, dwarf, 340	PAPIONES,
, new-holland, 196	, yellowish, ib.	, european, 334	Paquira, 3
, oriental, ib.	OTTERS, 171	, grunting, 337	Paquire, ib
, phillips, 198	Ouanderou, 64	, hornless grunting, ib.	Paraguensi
, thort-tailed, 196	Ouarine, 75	, indian, 334	Pardalis, 1
, spinous, 214	Oulofes, 317	, madagascar, 335	, fe
, fpotted, 199	Ourico cachieno, 213	, musk, 336 337	Παςδαλις με
, furinam, 194 195	Ovis, 325	, fea, 347	ολ
, virginian, 192 193 -	aethiopica, 327	fmall, of Belon, 340	Pardus, 14
, vulpine, 198	africana, ib.	furnt and	
Oquitli, 289	alterum genus, 329	, furat, 335	, br
Oraflus, 305	Ammon 22.1	, tinian, ib.	, car
Orange monkey, 78	Ammon, 33 I	, wild, 333	, fel
Orang-outang, 56	europaea, ib.	n	Parefleux,
Orafius, 305	anglicana, 326	P	Parforce-h
Orders of Mammalia a	arabiae, 329	Paca, 216	
Orders of Mammalia, 38	arabica, ib.	alba, cavia, 217	
Oreillar, 93	platyura, ib.	, cavia, ib.	*
Orca, 364	Aries, 325	, cuniculus, 216	Parsons sea
, delphinus, fee Delphi-	africana, 327	, mus, ib	Parva, cap
nus	anglica, 326	, white, 217	Parvus, bo
Oreas, antilope, 317	barbata, 330	Pacasse, 317	, bu
Oreotragus, antilope, 310	bucharica, 329	Pack horse, 342	
Og:0-, 345	capenfis, ib.	Paco, camelus, 291	, eri
Oriental greyhound, 135	guincensis, 328	Pacos, ib.	,
hamster, 253	hyfpanica, 327	Pad, 342	me
mouse, 233	jubata, 330	Paesen, 321	2110
oposium, 196	laticaudata, 328	Painted antelope, 309	Parvula, ce
philander, larger, 191	longicaudata, 329	Pak, 216	Pafan
porcupine, crested, 212			Pafan, 315
, fingular, 215	nana, 326	Palatine, 81	Patagonia,
Orientalis, aper, 354	polycerata, 327	Palm moufe, 261	Patagonian
aries whether 220	rustica, 326	fquirrel, ib.	Patagonian
, aries πλατυκηςως, 329	steatopyga, 328	Palmarum, mus, ib.	Patagonicus
, canis grajus, 135	brachyura, 326	, sciurus, ib.	Patas, 71
, capra, 331	cauda obcfa, 329	Palmatus, cervus, 298	, black
, didelphis,	dolichura, ib	Palmiste, 261	, whit

Paludosus, cervus, 303 , mus amphibius, fus maximus, 220 107 fapajus, 76 fimia, ib. 147 150 148 s, canis fagax, 134 dia, 59 erea, 62 tata, ib. ea, ib. imon, 61 ormon, 60 nestrina, 59 caria, 61 typygos, 62 inx, 60 icola, 61 iegata, 62 etit, 59 , ib. 352 b. fis, lutra, 172 147 149 felis, 149 леζων, 147 λιγοτεςα, 148 47 rasilian, 149 atus, 155 elis, 147 , IOI hund, 133 , englischer, ib. , franzosischer, ib. eal, 127 pra, 322 os africanus, 340 ubalus africanus, ib. 341 inaceus nostras, 209 elitaeus, canis, 131 erva, 293 , hare of, 220 n cavy, ib. ns, 46 as, homo, ib. ck-banded, ib. te-banded, ib. -

Pathological observations,		Phocá vitulina caspica, 124	Pithecia, fimia, 80
Poting 570	boeuf d'afrique, 340	fibirica, ib.	Півнкої, 59
Patira, 353	danois, 132	Phocaena, delphinus, fee	Πιθηχος, 58
, fus tajaflou, ib.	gris, 258	Delphinus	Pitheque, ib.
Pecary, 352	papion, 59	Фонаста, 363	Plagiocephalus, homo, 46
, leffer, ib.	phoque, 126	Phoque, 123	Plancus, canis americanus
PECORA, 287	Pferd-hirfch, 299	, grand, 126	Diameter Co. 1 at a Co.
Pecus, 325	Pferde, wilde, 341	, petit, ib.	Plantain fquirrel, 262
Pekan, 176	Pflokfisch, 359	Φυςπλος, 358	Platogna, 298
Pelon, 289	Φαλαινα, 356	Phyfalis, balaena, ib.	Πλατικέζως, ovis orientalis
Penfylvanian couguar, 151	Phalanger, 197	bellua, 34	32g
Pentadactyla, manis, 107	Φ 2λεν 2, 359	Physeter, 360	Platyceros, 298
, myrmecophaga, 106		Physeter, 358	, cervus, ib. 300
, viverra, 261	Phatagin, 107	Catodon, 360	, ovis, 329
Pentadaétylus, bradypus,		macrocephalus, 360	Platypigos, papio, 62
102	, amboina, 191	albicans, 361	, fimia, ib.
, phylodotus, 107	, american, 194	cinereus, ib.	Platyura arabica, ovis, 329
Pereguína, 180	, brafilian, 191	niger, 360	Plinii, musculus, 356
, mustela, ib.	, Didelphis, ib.	microps, 361	Podje, 88
Perewiafka, ib.	, largest oriental, ib.	falcidentatus, ib.	, lemur, ib.
Perfuming shrew, 207	obscure-rufus, 196	rectidentarus, 362	Podolian marmot, 248 25:
Pergracilis juvencus, 293	orientalis maximus,	Turfio, ib.	D. 1 253
Pernichcatl, 290	191	Финп, 125	Poephagus, 337
Perpufillus, cervus, 318	fpadiceus, 192	Picta, antilope, 309	Poet-jang, 293
Persian antelope, 311	, furinam, 195	Pictus, veipertilio, 96	Pohano, 297
lynx, 156	Philippine martin, 165	rubellus, ib.	Pointer, 134
fquirrel, 259	monkey, 79	Pied tame rabbet, 281	Pointing-dog, ib.
Perficus, sciurus, ib.	Phillips flying squirrel, 270	vari, 86	Poison blanc, 361
Perspicillatus, vespertilio, 92	opostum, 198	Piedra del porco, 210	Polar bear, 185
Peru, sheep of, 291	Philodotus pentadactylus,	Pig, 351	Pole-cat, 162 179
Peruana, ovis, 289	Di: (107	, guinea, 219	Polish marmot, 250
Peruvian bat, 93	Phipper, square, 125	Pig-headed armadillo, 111	Political observations, 51
camel, 289	Phisiological observations,		Polonica, glis marmota, 250 Polycerata, ovis aries, 327
, woolly, 291 hare, 277	PHOCA, 121	Pig-tailed baboon, 59 Piginy, 58	Pomeranian dog, 131
fheep, 289			Pomeranius, canis, ib.
Peruvianus, camelus, 289.	Phoca, 123 barbata, 126	ape, ib. mulk, 293	Pongo, 56
laniger, camelus, ib.	chilenfis, 127	, ftriped, 294	, fimia fatyrus, ib.
Petauri, 266	cristata, 126	fhrew, 203 207	Ponney, 342
Petaurista castaneus, petau-	fasciata, 127	fiberian jerboa, 275	Pontic mouse, 268-
rus, 269	foetida, 125	Pigritia, 101	fquirrel, ib.
niger, petaurus, ib.	groenlandica, ib.	Pike-headed whale, 358	Ponticus, canis, 264
, petaurus, ib.	nigra, ib.	Pileata, cercopithecus fini-	, mus, 254 256 268
, sciurus, ib.	hifpida, ib.	cus, 69	, sciurus, 268
, fimia, 72	quadrata, ib.	, fimia, ib.	Porc fanglier, 353
volans, petaurus,	jubata, 123	Filorides albidus, mus, 227	Porc-epic, 212
268	laniger, 128	fulvus, mus, ib.	Porcaria, papio, 61
Petauristus, cercopithecus,	leonina, 122	, mus, 207 226	, fimia, ib:
72	leporina, 128	Pilofa, mus cauda, 270	Porcellus frumentorius, 24?
Petaurus, 268	maculata, ib.	Pilofus, aries, 327	, mus, 219
australis, 269	monachus, 124	, canis melitaeus, 132	Porcina, phoca, 127
hudfonius, 267	mutica, 127	Pinche, 81	Porcine deer, 301
petaurista, see Pe-	nigra, 128	Pine martin, 177	, spotted, ib.
taurista	porcina, 127	Pingo, 352	Porcinus, cervus, ib.
fagitta, 268	punctata, 128	Pinuum, dafypus, 151	maculatus, cervus, ib
, fouthern, 269	pufilla, 126	Pipistrelle, 95	, taxus, 138
virginianus, 267	testudo, 127	Pipistrellus, vespertilio, ib.	Porco, piedra del, 210
volans, ib.	urfina, 121	Piffay, 294	PORCUPINE, 212
volucella, 255	vitulina, 123	Pifcatoria, lutra, 172	, american, 21
Petit barbet, 131	botnica, 124	Pithecia, fagoinus, 80	, brafilian, ib.

Porcupine, brawny, 216	Pteropus, black, 90	Quasje, 162	Rat, muscovy, 204
, canada, 215	, dark-brown, 91	, viverra, ib.	, mulk, 204 226
, canadian, ib.	, long-eared, ib.	Quato, 76	, muiqué, 226 227
, crefted, 212	Puant, blaireau, 165	Quauhioymatl, 35	, norway, 228
, oriental, ib.	Pudu, 332	Quauhpecotli, 138	, norwegian, ib.
, hairy american, 215	, ovis, ib.	Quauhtecallotlquapachtli,	, pharaoh's, 159
, hudfons bay, ib.	, capra, ib.	264	, fand, 224
, indian, 213	Puerilis, vulpecula, 163	Quauhuatl, 252	, finall, 228
, italian, ib.	Pug, 132	Quebec marmot, 251	, fongar, 245
, larger american, ib.	dog, ib.	Quercinus, mus, 271	, fpotted water, 239
, brafilian, ib.	, baftard, ib.	Quickhatch, 189	, water, 204 235
, long-tailed, 215	Puma, 150	Qail, 159	, white, from ceylon,
, malacca, 210	Pumilio, cuniculus faliens,	Quimichpatlan, 266	207
, mexican, 214	• 273	Quiopela, 159	, wild, 228
of new-spain, ib.	, dipus fibiricus, 275	Quiqui, 183	, zarizyn, 245
, oriental, 215	, mus, 233	, mustela, ib.	Ratel, 165 169
, finaller brafilian, 213	Pumilus, bos, 340	Quumbengo, 139	, weefel, 165
, fingular oriental, 215	Punctata, phoca, 128	23, 139	RATS and MICE, 226
, white canadian, ib.	Purple-faced monkey, 65	R	Ratte, 219
Porcus, 350	, wanderu, ib.	Rabbit, 281	, bosch, ib.
acculeatus malaccen-	Purpurata, fimia filenus, ib.	, angora, 282	, veld, ib.
sis, 210	Purpuratus, cercopithecus	, black tame, 281	Rattus, 228
fylvestris, 215	filenus, ib.	collared, 283	, aquaticus, 235
domesticus, 351	Purfe-winged bat, 98	common, 281	, minor, mus, 229
guineensis, ib.	Pusilla, phoca, 126	, commonest, 218	, mus, 228
indicus, 354	Pufillus, cervus, 293	, hog, 216	Ravale, 191
marinus, 363	, lepus, 283	, hooded, 281	Red american mole, 202
mofchiferus, 352	, forex, 206	, leffer marsh, 216	ape, 75
, fus, fee Sus	Putois, 179	, long-nofed, 218	cat, 154
Porpesse, 363	, furet, 180	, pied tame, 281	common squirrel, 255
Porpoife, 362	Putoria, vulpes major, 192	, russian, 282	deer, 298
, brown, 363	Putorius, 179	, filver-haired, 281	· , fmall, 299
, white, ib.	, mustela, ib.		indian flying-iquir
Pot-walfisch, 360		, filvery tame, ib.	
Ποτωμιος ι'ππος, 347	, viverra, 162 164 Pygarga, antilope, 311		mole, 202
Poto, 158 169		, wild, ib. Racoon, 188	
Potto, 85	Pygargus, cervus, 302		monkey, 71 moufe, 236 237
, lemur, ib.	Pramaeus, mofebus, 222	, white, 189 Radiated mole, 201	, leffer, 237
Pouch bat, 98	Pygmaeus, moschus, 293	Ra-djur, 302	Red-tailed monkey, 81
Poulatouche, 268	, leverianus,		Reddith bat, 92
Pourfille, 363	294	Ram, 325 Rambling moufe, 239	, ftriped, 96
Praecincta, mustela, 180	Present 121		carolina fquirrel, 263
Pratenfis, cervus, 304	Pyrame, 131, french, ib.	Rangifer, 296 297 , cervus tarandus, 297	common fquirrel, 253
Preacher monkey, 75	, irelien, ib.	Rangwo, 280	
, royal, ib.	0		mouie, 231 Reddith-brown weafel, 190
Preface by Gmelin, 1	Quacha, 346	Rare fquirrel, 254 Rariffimus, fciurus, ib.	Reddish grey viverra, 159
Prehenfile maucauco, 88		Rat, 228	
Prehenfilis, hystrix, 213	Quachy, 161		Regalis, corcopithecus, 74
	Quadrata, phoca hispida,	, barbara, 245	, fimia, ib. Rein deer, 296
, major, ib.	Quadricandatus forest 209	, black, 228	
, minor, ib.	Quadricandatus, forex, 208	, water, 236	, canadian, 297
, lemur, 88	Quadricinctus, cataphrac-	, brown, 228	, common, ib.
PRIMATES 4	tus, 109	, canadian musk, 226	, greenland, ib.
PRIMATES, 44	, dafypus, ib.	, common, 228	Reinthier, ib.
Προβατον, 325 Profinia of coloured 27	Quadruped from bengal,	, hamfter, 243	Renard, 141
Profimia, ash coloured, 87	OHADDHEDS MUDINE 301	, harvest, 230	charbonnier, 142
, brown, 85 Provider, lion's, 140	Quadrupes, Murine, 225	, kanguroo, 198	Renne, 296
	Quadrupes volatile, 268	, Lemmus, 241	Rennthier, 297
Πεοέ, 298 Prude 72	Quagga, equus, 346	, madagafcar, 88	Reftless cavy, 230
Prude, 73	Quahtla, 352	, marsh water, 236	Reverfa, capra, 332
Pruinofa, arctomys, 252	Quapizotl, ib.	, meadow water, 235	Rha-bock, 302

RHINOCEROS, 113	Ruber, cercopithecus, 71.	Sagoin, 80	Sardinian weafel, 183
bicornis, 114	, albofasciatus, ib.	SAGOINI, ib.	Saricovienne, 172
one-horned, 113			
		SAGOINS, ib.	Sarigue, 192
two-harned, 114	, felis catus, 154	Sagoinus argentatus, 82	Saris, 307
unicornis, 113	Rubicundus, sciurus vulga-	Jacchus, 80	Sarmatian weafel, 180
Ribbed-nose baboon, 61	ris, 255	moschatus, ib.	Sarn, 302
Rib-nofed baboon, ib.	Rubra, fimia, 71	M'das, 82	Sarlyk, 338
Rib-faced deer, 301	11 ((())	and the second s	
		Oedipus, 81	, bos gruniens, ib.
Rice hamfter, 245	, nigrofafciata, ib.	pithecia, 80	Σαθεςιον, 178
Rillow, 69	, talpa, 202	Rofalius, 82	Satherius, ib.
, bonneted, ib.	Ruddy fquirrel, 260	Sai, 78	Satyrus indicus, 55
Ringed moufe, 240	Rufa americana, talpa, 202	, white-throated, ib.	Jocko, fimia, 56
Ringtail maucauco, 87	, lynx, 158	Saiga, 309 310	Pongo, fimia, ib.
		Baiga, 309 310	
Ring-tailed maucauco, ib.	Ruffed maucauco, 86	, antilope, 319	, fimia, ib.
River hog, 220	Rufo-fusca, mustela, 190	Sailing fquirrel, 269	Saufinder, 135
horse, species of, 348	Rufus, sciurus carolinensis,	Saimiri, 78	Sauruden, ib.
Rock badger, 285	263	, chefnut, 79	Sauvage, afne, 343
cavy, 219	, vulgaris, 255	Saino, 352	, boeuf, 336
goat, 324	Rukkia, 260	Saine, 352	
		Sajou, 76	, bouc, 324
moufe, 234	Runt, 332	, brown, 77	, chat, 153
Roe, 302	Rupicapra, 307	, grey, ib.	, chevre, 321
deer, ib.	, antilope, ib.	Saki, 80	, cochon, 350
, female, ib.	, capra, ib.	Sakkawinkee, ib.	, lapin, 281
, male, ib.	cornibus arietinis, 331		
		Saliens, cuniculus pumilio,	
, musk, 292	, hircus, 307	273	Saxatilis, mus, 234
, tailless, 302	Russian mole-rat, 246	, mus, 274	Scalopes, 194
, white, ib.	, black, ib.	Saltans, antilope, 312	Scaly ant-eater, 107
Roebuck, ib.	rabbit, 282	Sand bear, 186	armadillo, larger, ib.
, indian, 304	Rustic mouse, 231		lizard, ib.
Poss of the mountains 212		hamster, 244	
Roes of the mountains, 313	, american, ib.	hills, mole of the, 247	, foreign, ib.
Rolloway, 72	Rustica, ovis, 326	rat, 244	, indian, ib.
, cercopithecus, ib.	, aries, ib.	Sanglin, 80	, leffer, ib.
, fimia, ib.	Rutilus minor, mus, 237	, yellowish, ib.	Scandentes, sciuri, 255
Root, 79	, mus, 236	Sanglier, 350 352	Schaaf, 325
Roquet, 132	, 11140, 230	bidoux are	arabifeher and
Defile C : 0-4	C	hideux, 353	, arabifches, 329
Rofalia, fimia, 82'	8	, porc, ib.	, das wilde, 331
Rofalius, fagoinus, ib.	Sabaeus, cercopithecus, 66	Sanguinarius, canis fagax,	, der schwaentz, 329
Roselet, 181	, fimia, ib.	132	, ein ander arabisches,
Rofmarus, 117	Sable, 178	Sanguinary dog, fagacious,	ib.
, trichechus, ib.	, american, ib.	ib.	, heisege, ib.
Rosselvissla, 263		_	orientalifahar anz
D. Cl. Cl.	, black, 179	SAPAJI, 74	, orientalisches, 331
Rofshirfch, 299	, white, 178	Sapajou, brown, 77	Schaaffe, 329
Roffomaka, 190	Sabuda bat, 91	, horned, ib.	Schakall, 140
Rotte, kaze, 154	Saca, 155	, variegated, 79	Schwarze, fuchfe, 141
Rotter, definans, 226	Sahara Iheep, 328	Sapajous, 74	Schwein, 351
Rouget, 91	Sagacious hunting dog, 133	Sapajus Apella, 77	, wild, 350
			Schweis hund van
Rougette, ib.	fanguinary dog, 132	Beelzebub, 75	Schweis-hund, 133
Rough greyhound, 134	fcotch dog, 133	Capucinus, 78	Sciurea morta, fimia, 79
lurcher, 135	water dog, 131	albulus, ib.	, fimia, 78
feal, 135	Sagax, canis, 133	Exquima, 76	Sciureus mortus, fapajus, 79
Round-tailed manati, 119	, aquaticus, 131	Fatuellas, 77	, fapajus, 78
fquirrel, 261		Panifcus, 76	Sciuri scandentes, 255
	, panterinus, 134		
Rouffet, 90	fanguinarius, canis,	fciureus, 78	volantes, 266
Rouffette, 90 91	132	feniculus, 75	Sciuroides, furunculus, 262
Royal preacher monkey, 75	fcoticus, canis, 133	Syrichtus, 79	Sciurus, 254
tiger, 149	venatorius, canis, ib.	trepidus, 76	abyifinicus, 260
Rubbon feal, 127			
	Societa dipus 272	111 1711C FF	acitiians, 262
	Sagitta, dipus, 273	fulvus, 77	aeituans, 263
Rubellus, vespertilio pictus,	, mus, 273 274	variegatus, 79	fasciatus, 263
Pubers mus 221	_		

Sciur	rus anomalus, 259	Sciurus volans major, 267	Seal, little, 126	Sheep, guinea, 328
	- avellanarius, 272	maximus,269	, long-necked, 127	, hornlefs, 326
	badjing, 262	volitans, 267	, maned, 123	, iceland, 327
	bancrofti, 265	volucella, 266	, mediterranean, 124	, indian, 328
	bicolor, 259	vulgaris, 255	, newfoundland, 125	, long-tailed, 329
	canus, 270 271	albus, 256	, parfons, 127	, many-horned, 327
	capenfis, 266	argenteus, ib.	, rough, 125	of peru, 291
	carolinensis, 258	leucourus, ib.	, rubbon, 127	, peruvian, 289
	rufus, 263	niger, ib.	, fiberian common, 124	, fahara, 328
130	cinereus, 258	rubicundus,255	, fpeckled, 128	, fenegal, ib.
	degus, 264	rufus, ib.	, fpotted, ib.	, fpanish, 327
	dschinschius, 264	varius, 256	, ftinking, 125	, tunis, 328
	epilepticus, 270	vulpinus, 257	, tortoife-headed, 127	, wallachian, 330
	erythraeus, 260	albus, ib	, urfine, 121	, wattled, 328
	flavus, 261	zeylonicus, 260	, wooly, 128	, wild, 331
	getulus, 262	Scotch dog, fagacious, 133	Seekuh, 347	Shield hog, 103
	guajanensis, 265	hunting dog, 134	Seg, 322	Shelty, 342
	hudsonius, 258 267	Scoticus, canis fagax, 133	Seminudus, bos bubalus, 339	Shepherds dog, 130
	indicus, 261	venaticus, 134	Semivulpa, 192	Shock dog, 132
		Scrag whale, 358		Short-nofedgreat ant-eater,
	latus, 268		Senegal antilope, 314	
	macrourus, 260	Scripta, antilope, 317	bat, 97	Short tailed and To
	madagascarensis,	Scrofa, 351	fheep, 328	Short-tailed ape, 59
	265	, fus, v. Sus.	Senicula, fimia, 75	bat, 92
	maximus, 260	Scrotalis, iciurus, 255	Seniculus, fapajus, ib.	coati, 186
	mexicanus, 257 264	Scythian antelope, 310	Septemcinctus, dafypus, 110	field-mouse, 235
	minimus, 266	antilope; ib.	Serotine, 95	manis, 107
	niger, 257	mouse, 268	Serotinus, vespertilio, ib.	opoffum, 196
	albirostro, ib.	fquirrel, ib.	Serpent-killer, 159	porcupine, 210
	novaehifpaniae, 264	Scythica, antilope, 310	Serpenticida, ib.	SHREW, 203
	palmarum, 261	Scythicus, bos, 335	Serval, 152	Shrew, 205
,	perficus, 259			
		, mus, 268	, felis, ib.	, aquatic, 202
	petaurista, 269	, fciurus, ib.	Setofus, erinaceus, 210	, blue, 207
	volans, 268	Sea ape, 120 121	Seven-banded armadillo,	, brafilian, 206
	Petaurus, australis,	bear, 185	110	, carinated, 208
	269	, white, ib.	Severn-river flying squirrel,	, crested, 201
	hudsonius, 267	calf, 123 126	267	, fetid, 205 208
	norfolcensis, 270	cat, 121	Sexcinctus, cataphractus,	, grey labradore, 206
	petaurista, 269	horfe, 117 347	109	, hardy, 205
	castaneus, ib.	lion, 122 123	, dafypus, ib.	, javan, ib.
	niger, ib.	otter, 171	Sexcornis, ovis, 327	, labradore, 206
	fagitta, 268	ox, 347	Shaggy turnspit, 135	, minute, 203
	virginianus, 267	unicorn, 356	Sharp-nofed cachalot, 361	, mexican, 207
	volans, 267	wolf, 122	, hook-	, moufe-like, ib.
	volucella, 266	SEAL, 121	toothed, ib.	, muíky, 204
	ponticus, 268	Seal, 123	, straight-	, murine, 205
	rariflimus, 264	, black, 128	toothed, 362	, perfuming, 207
	fagitta, 268	, bothnic common, 124	She ass, 344	, pigmy, 203 207
	fcrotalis, 265	, bottle-nofed, 122	goat, 321	, fquare-tailed, 208
	fcythicus, 268	, caspian common, 124	SHEEP, 325	, furinam, 206
	fibiricus albus, 256	, chilefe, 127	, african, 327 328	, timid, ib.
	volans, 268	, common, 123	_ , angola, 328	, uniform, 208
	striatus, 262	, falkland, 127	, bearded, 330	, water, 204 205
1	americanus, 263	, great, 126	, black-faced, 326	, white-footed, 208
	'asiaticus, 262	, harneffed, 127	, broad-tailed, 328 329	Shrew-like moufe, 232
	variegatus, 264	, harp, 125	, bucharian, 329	Shrew-moufe, 205
	major, 262	, heart, ib.	, cape, ib.	Siam hog, 351
				Sigmentic file narrows its
	minor,264	, hooded, 124 126	, common, 325	Siamenfis, fus porcus, ib.
	varius, 256	, large, 126	, cretan, 330	Sibbaldi, balaena bipinnis,
	virginianus, 258259	, leonine, 123	, dwarf, 326	356
17	volans, 267 268	, leporine, 128	, fat-rumped, 323 329	Siberian argali, 331 a
Vol.	<u>Lo</u>	D	d d	

Siberian chamois, 331	Simia argentea, 82	Simia filenus albibarbata,	Small ape, 72
common feal, 124	.Aygula, 68	64	danish dog, 132
dog, 131	Monea, ib.	purpurata, 65	deer of guinea, 293
flying fquirrel, 268	badia, 74	Tie-tie, ib.	doe, ib.
goat, 330	Beelzebub, 75	finica, 69	domestic urchin, 209
golden mole, 203	capistrata, 73	pileata, ib.	gibbon, 57
.hamfter, 243	capucina, 78	Sphinx, 60	greyish otter, 174
hedge-hog, 210	albula, ib.	fuilla, 59	indian dog, 135
Jerboa, 274	Cephus, 67	fylvana, 58	madagascar tendrac,
great, ib.	cinerea, 62	fyrichta, 79	210
middle, ib.	cristata, ib.	Talapoin, 71	maltese dog, 131
pigmy, 275	Cynocephala, 58 66	nigra, ib.	ox of belon, 340
finaller, ib.	cynomolgus, 65	trepida, 76	rat, 229
lemming, 241	cynofurus, 63	fulva, 77	red deer, 299
mole, 203	Diana, 66	troglodytes, 55	water dog, 131 Small-eared bat, 94
fquirrel, white, 256 urchin, 210	Exquima, 76	variegata, 79	Smaller brafilian porcupine,
weafel, 180	Faunus, 65 Ifulva, 73	veter, 64 albibarbata, ib.	
weefel, ib.	fusca, 74	viridens, 73	field moufe, 239
Siberie, chien de, 13.1	hamadryas, 63	SIMIÆ, 55	flying fquirrel, 268
Sibirica fera, ovis, 331	urfina, ib.	Simia-sciurus, 85	fiberian jerboa, 275
, mustela, 180	hircina, 73	, madagascar, 87	varied squirtel, 264
, phoca vitulina, 124	Inuus, 58	Simiolus, 72	Smallest cercopithecus, 79
, talpa, 203	Jacchus, 80	Simius zambus, 85	fquirrel, 266
, aurea, ib.	mofchata, ib.	Sinensis, felis catus, 134	Sno-mus, 182
Sibiricus, canis, 131	Lar, 57	, moschus, 295	Snow weafel, ib.
, dipus, 274	argentea, ib.	. , fus fcrofa domef-	Sobela, 178
major, dipus, ib.	minor, ib.	ticus, 351	Social moufe, 239
medius, dipus, ib.	livea, 62	Single-hoofed hog, 3-51	Socialis, mus, ib.
minor, dipus, 275	longimana, 57	Single-humped whale, 359	Solitarius, caftor fiber, 224
, mus lemmus, 241	Maimon, 61	Singular oriental porcupine,	Songar hamfter, 245
pumilio dipus, 275	.maura, 72	215	rat, ib.
, sciurus albus, 256	Midas, 82	Singularis, hystrix orienta-	Sora, 209
, volans, 268	Mona, 70	lis, ib.	SOREX, 203
Siege, 321	Mormon, 60	Sinica pileata, fimia, 69	Sorex, 303 228
Siegen bock, ib.	nafalis, 8	, fimia, ib.	albipes, 208
Sifac, 69	nafua, 7.2	Sinicus pileatus, cercopithe-	aquaticus, 202
Silenus albibarbatus, cerco-	nemeus, 69	cus, ib.	araneus, 205 208
pithecus, 64	nictitans, ib.	, cercopithecus, ib.	arcticus, 206
, cercopithecus, ib.	barbata, ib.	Siren, 7 119 120	cinereus, ib.
purpuratus, cercopi-	Oedipus, 81	lacertina, 7	bicolor, 205
thecus, 65	panifcus, 76	, murena, ib.	brafilienfis, 206
, fimia, 64	pctaurista, 72	, trichechus manatus,	cerulaeus, 207
Tie-tie, cercopithe-	pithecia, 80	120	cristatus, 201
cus, 65	platypygos, 62	Six-banded armadillo, 109	exilis, 207
Silky monkey, 82	porcaria, 61	Six-humped whale, 359	fodiens, 204
Silver-haired rabbit, 281	regalis, 74	Siya-ghuíh, 156	liricaudatus, 208
Silvery common fquirrel,	Roloway, 72	Skunk, 162 163	minutus, 203 moschatus, 204
fox, 143	rofalia, 82	, striped, 162	murinus, 205
gibbon, 58	xubra, 71 albofafciata, ib.	, white, 163	pufillus, 206
tame rabbit, 281		Sleeper, 272 Slepez, 248	pygmaeus, 203
Silvestris, bos, 333	nigrofafciata, ib. fabaea, 66	SLOTH, IOI	quadricaudatus, 208
Sima, myrmecophaga juba-	Satyrus, 56	Sloth, 83 101	furinamensis, 206
ta, 105	Jocko, ib.	, ceylon, 83	íylvestris, 195
SIMIA, 54	Pongo, ib.	, five-toed, 102	unicolor, 208
Simia, 58	fciurea, 78	, larger, 83	Søritinus, vespertilio, 92
aethiops, 67	morta, 79	, three-toed, 101	, mus, 232
torquata, ib.	fenicula, 75	, two-toed, 102	Souflica, arctomys, 252
argentata, 82	Silenus, 64	, urfine, ib.	Souflik, 252 253

Southern flying fquirrel,	Squirrel, arrow, 268	Squirrel, fevern-river flying,	Straight-horned antelope,
269	, barbarian, 262	267	315
mouse, 275	, barbary, ib.	, fiberian flying, 268	legged turnspit, 135.
petaurus, 269	, black, 257	, filvery common, ib.	toothed fharp-nofed
Sow, 351	, common, 256	, fmallest, 266	cachalot, 362
Spadiceus, philander, 192	, bombay, 261	, fmaller flying, 268	Strafburgh marmot, 243
Spalax, leffer, 246	, brafilian, 263	, varied, 264	Straubengeyse, wilde, 330
major, 248	, broad, 268	, ftriped, 262	Strepficeros, 319 320 330
microphthalmus, ib.	, cape, 266	, brafilian, 263.	, antilope, 319-
minor, 246	, carnatic, 264.	, varied, 264	, aries, 330
Spaniel, 131	, carolina, 258 259	, variegated, larger,	, bos, 319
, field, 134	, cat, 257 259.	262	, tragus, 320
, king charles's, 131	, cayenne, 265	, varying, 256	Striated monkey, 80
Spanish dog, ib.	, ceylon, 260	, common, ib.	weefel, 162
genet, 167	, chilese, 264	, virginian, 259	Striatusamericanus, sciurus,
Theep, 327	, common, 255.	flying, 267	263
Spafma, vespertilio, 92	, fair, 261	, vulpine, 257	asiaticus, sciurus, 262
Spear-nofed bat, ib.	, fat, 270	, white, 256	, mus 233
Species of hippopotamus,	, filbert, 272	, common, ib.	, fciurus, 262
. 348	, flying, 266 267 268	, fiberian, ib.	Striped ant-eater, 106
river horse, ib.	, fox, 257	vulpine, 257	antilope, 319
Speckled deer, 300	, garden, 271	, white-legged, ib.	bat, 96
feal, 128	, georgian, 259	, white-nofed, ib.	, reddifh; ib.
Spectre, 91	great flying, 269	, white-tailed com-	brafilian fquirrel, 263
Spectrum, vespertilio, ib.	, grey, 258	mon, 256	dormouse, 262
Spermaceti, 360	, ground, 262 263	Squirrel-ape, 85	fitchet, 170
oil, 361	, guiana, 265	, madagafcar, 87	hyaena, 138 139
		Squirrels, climbing, 255	moufe, 233
whale, 360 361	, hoary, 270 271, , hooded, 267	flying, 266	
Sphinx, papio, 60, fimia, ib.	, hudsonsbay, 258 267		pigmy musk, 294.
		St Jago sersonithagus 66	fkunk, 162
Spinofus, tlacuatzin, 214	, javan, 259	St Jago cercopithecus, 66	fquirrel, 262
Spinous opoffum, ib.	, indian, 261	Stachelfchwein, 212	wolf, 137
Spotted axis, 306.	, labradore, 258	Stag, 298	Subfusca, galera, 175
badger, 187	, larger flying, 267	, american, 299	, mustela, 165
cavy, 216	grey virginian, 258	, canadian, ib.	Subgutturofa, antilope, 311
fitchet, 170	, malabar, 260	, carolinian, ib	Subniger, vespertilio vam-
goat, 31.7,	, variegated, 262	, chinefe, ib.	pyrus, 91
hyaena, 139.	, largest flying, 269.	, corfican, ib.	Subterranei, mures, 240
martin, 170	, leffer grey, 259	, german, 298	Subtilis, mus, 232 233
mole, 200,	, long-tailed, 260.	, hog, 301	Suhac, 310
monkey, 66	, lyfters, 263.	, maned, 298	Suilla, fimia, 59
mexican moufe, 234.	, madagascar, 265	of barbary, 299	Suillus, canis laniarius, 135
opossum, 199	, malabar, 260	, virginian, ib.	Suisse, 263
porcine deer, 301	, mexican, 257 264	water, 301	, ecureil, ib
feal, 128	265.	Stallion, 342	SUKOTYRO, 114
water rat, 236	of New-spain, 264	Steatopyga, ovis, 328:329	"Javan, ib.
Springbock, 312.	of the Teleutian Tar-	aries, 3.28	Sukotyrus, ib.
Springen-haas, 275	tars, 256	Stein bock, 321 324.	, indicus, ib,
Spurious varying hare, 279	, palm, 261	Steir, 332.	Sumxi, 154
Squamofus myrmecopha-	, persian, 259	Stepnie baranni, 331	Surakatje, 160
gus, 107	, plantane, 262	Steppen fuchse, 143	Surat ox, 335
Square phipper, 125	, pontic, 268	Stifling weefel, 162	Surikate, 158 160 261
Square-tailed fhrew, 208	, rare, 264	Stinkbinksem, 165	Surinam opossum, 194 195
Squinaton, 304	, red common, 25.5,	Stinking badger, ib.	philander, 195
, cervus, ib.	, reddifh carolina, 263	fox, larger, 192	fhrew, 206
SQUIRREL, 254	, common, ib.	feal, 125	wolf, 138
Squirrel, 255	, round-tailed, 261	Stirk ₂₀ 332	Surinamenfis, forex, 206.
, american, 265	, ruddy, 260.	Stoat, 181	, tragulus, 294
, ground, 263	, failing, 269	Stot, 332	Surifcatsjie, 261
, afiatic ground, 262	, fcythian, 268	Strange hogs, 354	Surmulot, 228
	D d	ld 2.	

Surry, little cat of the, 261		Tamaricinus, mus, 276	Taurus madagascarensis,
Sus, 349 .	Systematic catalogue, 32	Tamarisk mouse, ib.	bos, 335
Sus, 350 351	FTT	Tamarus, 82	tinianensis, bos, ib.
aethiopicus, 353	T	Tame rabbit, black, 281	Urus, bos, 332
africanus, ib.	Tachs, 186	, pied, ib.	Tau-tokke, 324
agreftis, 350	Taguan, 269	, filvery, ib.	Tawny man, 46
aquaticus multifulcus,	Tai-ibi, 191 192 Tailed mole, 200	, white, ib. Tangutifcher buffel, 337	monkey, 73 Tax, 186
Babyruffa, 354	Taillefs lemur, 84	Tanrec, 211	Taxus, ib.
-chinensis, 351	marmot, 254	Tapeti, 283	porcinus, 138
domesticus, 350	maucauco, 84	Tapihires, 348	Tayra, 175
ferus, ib.	roe, 302	Tapiirete, ib.	Techichi, 136
hydrochaeris, 220	Taisson, 186	TAPIR, ib.	Tegoulichtick, 227
maximus paluftris, ib.	Tajaçu, 352	Tapir, ib.	Teleutian tartars, fquirrel
minor, 352	Tajafloub, ib.	, american, ib.	of the, 256
Porcus, 351	Tajassu, fus, v. Sus.	americanus, ib.	Teleutskaija belka, ib.
fiamenfis, ib.	Tajovanicus, diabolus, 107	, hydrochaerus, ib.	Temama, cervus, 303
Scrofa, 350	Takija, 341	, long-nofed, ib.	Temamaçama, cervus, 314
domesticus, ib.	Talopoin, 71	, thick-nofed, 221	Temamaçame, 303
monungulus,	, cercopithecus, ib.	Tapiroussou, 348	Tendrac, 210
351	, niger, ib.	Ταςανδος, 296	, finall madagafcar, ib.
finensis, ib.	, fimia, ib.	Taranthier, 297	Tenlie, 140
ferus, 350 Tajassu, 352	TALPA, 199	Tarandus, 296	Tepe maxtlaton, 151 Ternate bat, 90 96
	Talpa, 200	, cervus, v. Cervus. Tardigradus, ceylon, 102	Terrestris, echinus, 209
minor, ib. Patira, 353	, alba, europaea, ib. , americana rufa, 202	, lemur, 83	, erinaceus, ib.
umbilico in dorfo, 220	afiatica, 203	tridactylus, 101	, hippopotamus, 348
Συς αγριος, 350	aurea, ib.	Tarpany, 341	, mus, 238
Suffica, arctomys, 252 253	fibirica, ib.	Tarsier, 88	, amphibius, 235
, mus, 253	caudata, 200	Tartarian goat, 321	Terrier beaver, 224
Swartfide, 125	cinerea, ib.	Tartarica, capra, 310	Terriers, ib.
Swarfiide, ib.	, , europaea, ib.	Tartarin, 63	Testudo, phoca, 127
Swift antelope, 308	europaea, ib.	, urfine, ib.	Tetradactyla, manis, 107
camel, 288	alba, ib.	Tartary, cow of,	, myrmecophaga,
Sword grampus, 364	cinerea, ib.	Taffus, 186	106
fish, ib.	flava, 201	Tatou, 108	, viverra, 160
Sylvanus, fimia, 58	nigra, 200	Tatou-ete, 110	Tetradactylus, urfus, 186
Sylvatica, antilope, 318 Sylvaticus albus, mus, 230	variegata, ib.	Tatu, 109 111	Teτρακερως, 'ις, 354
mus, ib.	Hava, 201	-apara, 108 -ete, 111	Teutlal-maçame, 303 Teutscher jagdhund, 133
Sylvestris americanus, mus,	, , europaea, ib. fusca, 202	, first, 109	Thaleb, 141
217	longicaudata, ib.	mustelinus, 112	Thebaicus, daemon, 107
albus, mus, 234	maculata, 200	-paba, 109	Theological observations,
, catus, 153	, nigra, europaea, ib.	, weafel-like, 112	52
, felis, ib.	, , virginiana, 202	Tatus, 110 111	Theos, 140
femina, mus, 196	rubra, ib.	Taupe, 200	Thibet lynx, 157
, glis, 194 195	rufa americana, ib.	des dunes, 247	musk, 292
, homo, 56	fibirica aurea, 203	Taurelephas, 338	Thick-noted tapir, 221
major, canis, 195	, variegata, europaea,	Taurus, 332	Thier, wild oder, 298
, martes, 177	200	abiffinicus, bos, 335	Thous, canis lupus, 138
, mus, 195 228	, verficolor, 203	africanus, bos, 335	Three-banded armadillo,
, mustela, 180	virginiana nigra, 202	Bifon, bos, 333	Three took out ester to a
, porcus aculeatus, 215	Talpina, myotalpa, 246	Bonafus, bos, ib.	Three-toed ant-eater, 105
, iorex, 195 Syriaca, capra, 322	Tamandua, 104 106	domesticus, bos, 334	floth, 140 Θω;, 140
, mambrina, ib.		europaeus, bos, ib.	Tie-tie wanderu, 65
Syriacus, hyrax, 281	guacu, 105 mexicana, 162	indicus major, bos, ib.	Tiger, 146
Syrian afkoko, 286	Tamanoir, 105	minimus, bos,	, black, 150
goat, 322	little, 106	335	, brafilian, 149
Syrichta, simia, 79	Tamaricinus, dipus, 276	minor, bes, ib.	, brown, 150
	• •		

Tiger, large, 149	Tridactyla, didelphis, 198	Urchin, fiberian, 210	Vampyrus niger, vefperti-
, royal, ib.	, myrmccophaga, 105	, fmall domestic, 209	lio, 90
Tiger-cat, 152	Tridactylus, bradyphus, 101	, white american, ib.	fubniger, vefpertilio,
, bengal, 151	., philodotus, 107	with erected ears, ib.	91
, cape, 152	, tardigradus, 101	Urfina, phoca, 121	, vefpertilio, 90
, cayenne, 151	Troglodytes, homo, 55	, fimia hamadryas, 63	Vansire, 175
, mexican, ib.	, fimia, ib.	Ursinus, bradypus, 102	Vari, 86
, wild, ib.	True dolphin, 363	, cercopithecus ha-	, black, ib.
Tigrina, felis, ib.	Tschelag, mus, 242	madryas, 163	, brown, ib.
, viverra, 168	Tscherkessica, ovis, 329	Urfine dog-faced baboon,	, pied, ib.
Tigris, 146	Tucan, 207	ib.	, white, ib.
, felis, ib.	Tufted ape, 60	feal, 121	Varicossi, ib.
Timidus, lepus, v. Lepus.	Tunin, 363	fioth, 102	Variabilis, lepus, 278
Tinian ox, 335	Tunis sheep, 328	tartarine, 63	, hybridus, 279
Tinianensis, bos taurus, ib.	Tup, 325	Urfon, 215	Varied monkey, 70
Tlacoocelotl, 149	Turcica, ovis, 329	Ursus, 183	fquirrel, 264
Tlacuatzin spinosus, 214	Turcicus, camelus, 289	Urfus Arctos, 184	, fmaller, ib.
Tlalocelotl, 149	, canis curforius, 134	niger, 184	Variegata, papio, 62
Tlamototli, 265	Turkish camel, 289	fuscus, ib.	, mustela, 59
Ttlaquatzin, 192	dog, 135	grifeus, ib.	, fimia, 62 79
Ttlaquazin, 191	greyhound, 134	variegatus, ib.	, talpa europaea, 200
Ttatlauhqui ocelotl, 149	Turnspit, 135	albus, ib.	Variegated bear, 184
Tolai, 280	, crook-legged, ib.	niger, ib.	mole, 200
, lepus, ib.	, fhaggy, ib.	maritimus, 185	fapajou, 79
Torofa, hystrix, 216	, ftraight-legged, ib.	albus, ib.	fquirrel, 262
Torquata, simia aethiops, 67	Turfio, 363	marinus, 121 185	, larger, ib.
Torquatus, cercopithecus,	, phyfeter, 362	albus, 185	Variegatus, canis, 132
ib.	Two bunched camel, 289	major arcticus, 185	, lemur macaco, 86
, mus, 240	horned rhinoceros, 114	americanus, 186	major, fciurus, 262
Torrid jerboa, 275	toed ant-eater, 104	tetradactylus, 186	minor, sciurus, 264
Tortoife-headed feal, 127	floth, 102	Meles, 186	, fapajus, 79
Tortoife-shell cat, 154	Tygcrpferd, africanisches,	alba, 187	, fciurus, 264
Τζαγελαφος, 299	345	maculata, ib.	, urfus arctos, 184
Tragelaphus, 299 330 331	Tyger-wolf, 150	labradorius, ib.	Varieties of the mouse, 229
belonii, 331	Typhlus, myotalpa, 248	castaneus, 189	Varius, sciurus, 256
Teayor, 321	Tzebi, 313	indicus, 188	vulgaris, ib.
Tragocamelus, antilope, 308	Tzeiran, 310 311	lotor, 188	Varying hare, 278 279
309		melinus, 189	, spurious, 279
Tragulus, indian, 293	Ü	cauda elongata, 188	common fquirrel, 256
furinamentis, 294		lufcus, 189	fquirrel, ib.
Tragus domesticus, 321	Umbilico indorfo, fus, 220	Urus, 333	Veau marin, 123 126
giraffa, 305	Unau, 102	, bos taurus, ib.	Veld ratte, 219
moschiferus, 320	Uncertain species of deer,	'Ys, 351	Velu, boeuf, 337
ftrepficeros, ib.	303	αγειος, 350	Venaticus, canis, 133
Trampelthier, 289	Uncia, 147 148	TETEUREEWS, 354	, graecus, 134
Trepida fulva, fimia, 77	Unicinctus, dafypus, 111	Utias, 273	, grajus, ib.
Trepidus, cercopithecus, 76	Unicolor, cervus axis, 300	Utfelar, 126	, fcoticus, ib.
fulvus, cer copithecus,	, forex, 208	Utfuk, ib.	Venatorius, canis sagax, 133
. 77	Unicorn fish, 356		Vera, balaena, 356
TRICHECHUS, 117	, fea, ib.	V	Vericoffi, 86
Dugon, 118	Unicornis, rhinoceros, 113	Vacca, 334	Verrat, 351
Manatus, 119	Unicornu marinum, 356	Vache brune, la grande,	Verres, ib.
auftralis, ib.	Uniform shrew, 208	314	Versicolor, talpa, 203
- borealis, 120	Unknown deer, 304	de barbarie, ib.	Vertegus, 135 see Canis
Siren, ib.	URCHIN, 208	Vagra, 348	Vervex, 325
Rofmarus, 117	, common, 209	Vagus, mus, 232 240	Vespertilio, 89
Tricinctus, cataphractus,	, guiana, ib.	Vampire, 90 91	americanus, 100
108	, land, ib.	, leffer, 91	auritus, 93
dafypus, ib.	, long-eared, 210	Vampyrus helvus, vefperti-	Barbastellus, 95
Tricornis, ovis, 327	, malacca, ib.	lio, 91	Cephalotes, 98

VESPERTILIO, Cephalotes, melinus, 98	Virginianus, sciurus volans,	Volans, didelphis, 199 , felis, 269	Vulpes cinereo-argenteus
ferrum-equinum, 99	, vulpes, 143.	, glis, 92	Corfac, 142
major, ib.	Viridens, cercopithecus, 73	, lemur, 89 199	crucigera, 144
minor, ib.	, fimia, ib.	major, sciurus, 267	indicus, 140 144
haftatus, 92	Viscaccia, lepus, 277	maximus, sciurus,	Karagan, 143
hispidus, 95	Viscacha, 277	269	lagopus, ib.
ingens, 90	Vifcachos, ib.	mus, 266	albus, 144
labialis, 93	Vison, 176	petaurista, sciurus,	cerulescens, ib
lafcopterus, 100	, muftela, ib.	268	Lycaon, 141
lafiurus, ib.	Vittata, viverra, 164	, petaurus, 267	major putoria, 19
leporinus, 93	Vitulina, phoca, 123 see	, fciurus, 267 268	minor, 161
lepturus, 98	Phoca	fibiricus, fciurus, 268	virginianus, 143,
Moloffus, 97	Vitulus, 334	virginianus, fciurus,	Vulpine opostum, 198
major, ib.	marinus, 123 126	267	fquirrel, 257
minor, ib.	mediterraneus, 126	Volant, champagnol, 95	, white, it
murinus, 93	VIVERRA, 15.8	, chien, 90	Vulpinus albus, sciurus, it
nigritia, 97	Viverra, 180	, mulot, 97	, sciurus, ib.
Noctula, 94	annulata, 168	, muscardin, 96	w
noveboracenfis, 99	cafra, 159	Volante, marmotte, 97	
perspicillatus, 92	capenfis, 165	Volantes, sciuri, 266	Wagnhyalur, 364
pictus, 96 rubellus, ib.	caudivolvula, 169	Volatile quadrupeds, 268	Wallachian sheep, 330 Wall-sisch, 356
Pipistrellus, 95	Civetta, 165	Volitans, sciurus, 267 Volucella, petaurus, 266	
Serotinus, ib.	Conepatl, 163: fafciata, 170	fciurus, ib.	, groenlandische, it Wallross, 117
foricinus, 92	Fossa, 168	Vormela, 180	WALRUS, ib.
Spafina, ib.	fusca, 173	Vulgaris alba, lynx, 157	, arctic, ib
Spectrum, 91	gallica, 167	albus, fciurus, 256	, fish-tailed, 119
Vampyrus, 90	Genetta, ib.	argenteus, sciurus, ib.	, indian, 118
helvus, 91	hermaphrodita, 166	, balaena, 356	Wandering mouse, 232:
niger, 90	Ichneumon, 158.159	, cervus dama, 298	Wanderu, 64
fubniger, 91	javanica, 175	dama, ib.	, black, ib.
Veter, cercopithecus, 64.	Lutreola, 173	edentula, balaena, 356	, purple-faced, 65;
, fimia, ib	maculata, 170	leucourus, sciurus, 256	, tie-tie, ib.
Vicognes, 291	malaccenfis, ib.	, lynx, 157	, white bearded, 6.
Vicugna, ib.	Mangutia, 159	maculata, lynx, ib.	War horse, 342
, camelus, ib	Mapurito, 164,	melina, lynx, ib.	Wasserochs, 347
Vicuna, ib.	mellivora, 169	"muftela, 182	Wasserschwein, 348
Viennas, ib.	Mephitis, 163	niger, fciurus, 256	Water dog, great, 131 13.
Vicunna, ib.	Mungo, 159	nivalis, mustela, 182	, leffer, 131
Vicunnas, ib.	, Muftela, 180	rubicundus, fciurus,	, fagacious, ib.
Vielfrass, 190	narica, 161	25.5	, finall, ib.
Vigogne, 291	nafua, ib.	rufus, fciurus, ib.	elephants, 347.
Virginian flying squirrel,	Nems, 160	fciurus, ib.	moufe, larger, 235
267	prehenfilis, 169	varius, fciurus, 256. Vulgatifiimus, cuniculus,	rat, 204 235 , black, 236
deer, 299 mole, black, 202	Putorius, 162 164 Quasje, 162	Vulgatifiimus, cuniculus,	, marsh, 235,
opostum, 192	, reddifii-grey, 159,	Vulgi, balaena, 356	, meadow, ib.
fquirrel, 259	tetradactyla, 160	Vulgo dicta, argali, 331	, fpotted, 239
, larger grey, 258	tigrina, 168	Vulpecula, didelphis, 198	fhrew, 204.205
ftag, 299	vittata, 164	nigra, 141	stag, 301
Virginiana, dama, 300	vulpecula, 162:	puerilis, 163	Wattled sheep, 328:
, didelphis, 193	Zenik, 160	, viverra, 162.	WEASEL, 171
nigra, talpa, 202	zeylanica, 164.	Vulpes, 141 143	Weafel, 159 167 176 18
Virginianus, canis vulpes,	Zibetha, 166	Alopex, 142	, african, 261
. 143	Zorilla, 164	americanus, ib.	, black, 162
, cervus, 299	Vizcacha, 277	europaeus, ib.	, brownish, 165;
, mus, 234	Volans, canis, 91	australis, 144	, chilefe, 183
, petaurus, 267	, cato-simius, 89	, Canis, 141	, common, 182
, fciurus, 258 259	, civetta, 269	chilenfis, 144	, daurian, 283

Weafel, dufky, 173	Whale, humped, 359	White-faced antilope, 311	Wolf, furinam, 138
, four-toed, 160	, iceland common, 357	312	, white, 137
, girdled, 180	, larger common, ib.	White-footed antilope, 309	, mexican, 138
, grey, 164	, pike-headed, 358	fhrew, 208	, yellow, 137
, java, 175	fcrag, ib.	White-handed mongous,	Wolverne, 189
, javan, 183	, fingle-humped, 359	85	Wonderful bat, 89
, mongalian, 284	, fix-humped, ib.	White-legged fquirrel, 257	Wood baboon, 61
, reddish-brown, 190		White-nofed monkey, 69	dormoufe, 271
	, spermaceti, 360 361	2 4 5	goat, 318
, fardinian, 183	whale-bone, 356	Iquirrel, 257 White-tailed common	hind, 304
, farmatian, 180	Whale-bone, 357	_	Woods, man of the, 62
, fiberian, ib.	whale, 356	fquirrel, 256	Wooly maucauco, 85
, fnow, 182	Whale-tailed manati, 120	White-throated fai, 78	moufe, 238
, white, 181	Whales, herie, 1-18	Whitred, 182	
, yellow, 183	Whang yang, 311	Whitret, ib.	peruvian camel, 291
, yellowish-black, 179	Whidaw goat, 322	Wieprz-lefny, 350	feal, 128
Weafel-headed armadillo,	White american field	Wiefel, 181 182	weafel, 177
-I 12	moule, 234	Wiewiorka, 255	Wormelian, 180
Weafel-like tatu, ib.	urchin, 209	Wild american mouse, 217	Wulf-luchs, 157
WEASELS, 175	ape, 64	ass, 343 345	37
Webbed beaver-rat, 225	arctic fox, 144	boar, 350	X
Wedder, 325	axis, 300	, african, 353	Zardor, o15, 330
, barbary, 328	badger, 187	'cat, 153	Εκιθος, λυκος, 140
, bell, ib.	bear, 184 185	, indian, 170	Xoloitcuintli, 138
Weeper, 77	beaver, 222	dog, larger, 195	
Weefel, 182	blunt-nofed cachalot,	goat, 319 320 324	Y
, blotched, 168	361	hedge-hog, 215	Yachmur, 314
brafilian, 161	canadian porcupine,	hog, 350	Yaguane, 164
dufky, ib.	215	horse, 341	Yang, hoang, 311
, dufky brafilian, ib.	ceylon mouse, 227	horfes, ib.	, whang, ib.
, fisher, 1.79	coati, 104	man, 44	Yellow baboon, 62
, guinea, 175	common fquirrel, 256	of the woods, 62	common hare, 278
, madagafcar, ib.	ermine, 181	mule, 343	european mole, 201
, mexican, 169	field-moufe, 230	oder thier, 298	goat, 311
, Ratel, 165	glutton, 190	ox, 333	lynx, 157
, farmatian, 180	hare, 279	rabbit, 281	maucauco, 169
, fiberian, ib.	land bear, 184	rat, 228	minute mouse, 232
, stifling, 162	lynx, 157	fchwein, 350	mole, 201
			weafel, 183
., striated, ib.	man, 46	sheep, 331	weefel, 169
, white-cheeked, 183	mexican wolf, 138	Wilde haze 772	wolf, 137
, wooly, 177	mole, 200	Wilde haze, 153	breafted martin, 177
yellow, 169	oil, 361	ochsen, 336	
Weiffent, 333	paca, 217	pferde, 341	Yellowish cercopithecus, 66
Weiß fisc, 361	porpoife, 363	Schaaf, 331	monkey, 73
fisch, 361 365	racoon, 189	straubengeyss, 330	otter, 174
Weissars der alten, 331	rat from ceylon, 207	ziberthartige kaze 188	fanglin, 80
Weisse baer, 185	roe, 302	Wilder efel, 343	black wealel, 179
WHALE, 356	dea bear, 184	Wind-hund zotiger, 134	brown dog, 136
, beaked, 360	fiberian fquirrel, 156	Windspeil, ib.	white cercopithecus,
, bottle-nofed, ib.	ikunk, 163	, kleines, 135	82
, broad-nofed, 359	fquirrel, 256	Wirrebocerra, 294	Yerboa, 273
, common, 356	tame rabbit, 281	Witt fisch, 365	Yerbua, capenfis, 275
, , greenland, ib.	vari, 86	Wolf, 136	Ylo bat, 93
, , iceland, 357	vulpine squirrel, 257	, black, 137	Yo-to-tse, 243
, , larger, ib.	weafel, 181	, common, ib.	Young deer from africa,
, fin, 358	wolf, 136 137	dog, 131	293
, fin-backed, ib.	White-banded patas, 71	fox, 144	Yfard, 307
, greenland common,	White-bearded black wan-	, indian, 138	Y farus, ib.
356	deru, 64	, indianischer, ib.	Ytzcuinte-porzotli, 136
, hump, 359	lowando, ib.	, mexican, ib.	Yvana, 107
, hump-back, ib.	White-eyelid monkey, 67	, ftriped, 137	Yzquiepatl, 162
, coming back, the	of one monacy of	,	1 1

INDEX TO THE MAMMALIA;

Zackl, 331
Zaino, 352
Zainus, ib.
Zambus, fimius, 85
Zand-moll, 247
Zarizyn rat, 245
Zebi, 316
Zebra, 345
, equus, 345
, female, 346
, hybrid, ib.
hybridus, equus, ib.

Zebra indica, 345 , male, ib. Zebu, 335 340 Zecora, 345 Zemni, 248 252 253 , arctomys, 252 Zenik, 160 , viverra, ib. Zerda, 144 145 Zeura, 345 Zeylanica, viverra, 164 Zeylonicus albus, mus, 207 227

Zeylonicus, fciurus, 260
Zibellina, 178
alba muftela, ib.
americana, mufftela, ib.
, muftela, ib.
nigra, muftela,
179
Ziberthartige kaze, wilde,
188
Zibet, 166
Zibetha, ib.

, felis, ib.

Zibetha, viverra, 166
Zibethi, animal, ib.
, felis, 165 166
Zibethicus, caftor, 226
, myocaftor, 225
Zifel, 252 253
Zizchan, dfchilkis, 240
Zobela, 178
Zorilla, 164
, viverra, ib.
Zorille, ib.
Zotigerwind-hund, 134
Zweyte cachelotte, 362

THE

ANIMAL KINGDOM.

C L A S S II.

B I R D S.

Vol. I.

Еес



C L A S S II.

B I R D S.

The unshorn mountains, the barren rocks, and lowly shrubs, all raise their joyous songs to beaven.—VIRGIL.

IRDS are animals which; for the most part, are capable of moving through the air, by the well known action which is called flying; their bodies are covered with feathers, which lap over each other like tiles; they have two wings, which are likewise covered with feathers, and are adapted, in general, for the purposes of flying; they have only two legs; and their jaws are protracted into a naked horny bill, confifting of two mandibles. The bodies of birds are exceedingly light in proportion to their fize, when compared with the former class; they are clothed with quills and feathers, instead of hair; and are destitute of external ears, lips, scrotum, teeth, uterus, bladder, epiglottis, fornix, corpus caliofum, and diaphragm. The feathers, pennae, are disposed in alternate rows, those of one row being opposite to the intervals of the next; this arrangement is called quincunx, and they regularly fall over each other in the fame order, like tiles on a roof, imbricatim, each alternate row covering the intervals of the row immediately below; amid thefe, all over the body, short soft woolly downs, plumae, are interposed: All the feathers are convex on their upper, and concave on their under furfaces; their external edges, webs, or vanes, are narrow, and their inner vanes are broad; the rays or laminae of these vanes are foster and less connected together towards the base or shaft, and these, towards the outer end of the seathers, are firmer. more elastic, and more closely connected together; the shaft of each consists of a cylindrical hollow tube, or quill, filled with air, from which a firm, though very light, ftem. proceeds to the extremity of the feather, and from this the rays of the vanes stretch

Eee 2

out:

out on each fide in parallel rows close to each other; and these are double in water fowls which have pinnated feet.

The feathers of birds are gaily ornamented with colours, which are varied by difference of age, fex, feafon of the year, and climate; but on the quill-feathers of the wings, remiges, and of the tail, rectrices, these colours are more constant, and deserve an attentive consideration from the ornithologist, as being frequently the only distinctive marks of species *. A naked stripe of the skin runs down on each side of the neck, from the head, pointing towards the space, interscapulium, between the shoulders of the wings; and another similarly naked space on each side from what are called the Armpits, axillae, under the wings, along the sides of the breast, backwards almost to the groins and thighs.

All birds are oviparous, or produce eggs, which contain the rudiments of their young; the number of these is various in the different kinds, but they are always covered with a calcareous crust, or shell, and, after exclusion from the mother, they are, almost universally, deposited in artificially constructed nests, in which, by what is termed incubation, the parents sit on them, to keep them warm, till they are hatched.

The windpipe, trachea, is composed of cartilaginous rings, and is furnished with a great number of muscles; and in many birds the branches, or branchiae, of the windpipe are likewise surrounded with cartilaginous rings.

Through the whole body a number of air cells are interspersed, even in the bones; these cells are connected with the lungs, and may be filled or emptied at pleasure; they are of singular use for slight, by rendering their bodies lighter, in proportion to their bulk, and they assist in prolonging their songs: These cells are situated in the cellular membrane of the belly, under the wings, and in other places; and, except in the order of Anseres, and the genera of Coots and Snipes, they are chiefly distributed in the cavities of the bones, which are void of marrow; such as the bones of the thighs and wings, the breast-bone, ribs, rump-bones, shoulder blades, collar-bones, back-bone, and even sometimes in the bones of the skull and the lower jaw.

A bird, for the purposes of description, is distinguished into the Head, the Body, and the Limbs. The covering of the top of the head is called the *pileus*, or Cap, which is distinguished into the Front, frons, the Crown, vertex, and the Hind-head, occiput:

That

^{*} Act. Stockholm. 1740, p. 370. t. i. f. 10. 11.

That part of the front which borders the base of the bill is called the Frontlet, capistrum; through this a naked line on each side runs from the bill to the eyes, which is called the Strap, lorum; the spaces immediately surrounding the eyes are named the Orbits, orbitae, immediately over which the Eye-brows, supercilia, are situated; the spaces from behind the eyes, to the auditory passages, on each side, are called the Temples, tempora; and the spaces below the eyes, towards the throat, are named the Cheeks, senae.

The Bill, rostrum, is a hard horny substance, answering to the jaws of other animals, and is divided into the upper and lower Mandibles. The Bill is either Straight, rectum, Bent downwards, incurvatum; Bent upwards, recurvatum; Round, teres; Flattened at the fides, compressum; Flattened horizontally, depressum; Conical, conicum; Slender, subulatum; Cylindrical, cylindricum; Angular, angulatum; Sharp edged, cultratum; Vaulted, fornicatum; or Hooked, uncinatum. The Mandibles are naked, and have no teeth; fome are Notched, emarginatum, near the point; a few are Jagged, ferratum; Toothed, denticulatum, that is, having processes resembling teeth; Pectinated, pectinatum, or furrowed across on their inner surfaces. In general, the nostrils are situated in the bill, sometimes in the middle of the upper mandible, or near the point, or near the base, or at the base, or even behind the base, and are sometimes wanting externally; they are mostly naked, but are sometimes covered with reflected bristles, or are hid in feathers; their figure is Round, rotundae; Oval, ovatae; Oblong, oblongae; Linear, lineares; Vaulted, fornicatae; or Tubular, tubulofae. The base of the upper mandible is, in fome birds, covered with a naked skin, or membrane, called the Cere, cera; and the external margin of the mouth, at the angle of the two mandibles, is often fringed with Briftles, vibriffae.

The tongue is either Fleshy, carnosa; Cartilaginous, cartilaginosa; Notched, emarginata; Torn, lacera; Feathered, pennacea; Fringed, ciliata; Whole, integra; or Sharppointed, acuta.

The eyes are fituated on the fides of the head, having moveable eyelids, palpebrae, and a membrana nicticans, below them; this is a kind of half transparent membrane, with which the eyes can be covered to keep off a strong glare of light without shutting the eyelids: The chrystalline lens is extremely moveable, being contained by small, black, conical, plaited supports: Instead of Eyebrows, some birds have a naked coloured line over each eye, and this, in a few species, is Warty, carunculata.

The orifices of the auditory canal are destitute of external ears; in Owls they are covered with valves of skin, and over these is a kind of external ear composed of long feathers.

A kind of beard, of hair or bristles, is found in some birds; in some it resembles moveable whiskers, and is situated on the lower mandible, as in the Motmot, Momota, and Penduline Titmous, Parus pendulinus; in others it consists of bristles, vibrissae, which fringe the margin of the mandibles at the base, as in the Goat-sucker, Caprimulgus; while in the Common Turkey, Meleagris gallopavo, it is situated on the breast. The base of the bill is clothed with a reversed Head-stall or Frontlet, Capistrum, the hairs of which stand backwards in Crows, Pies, and Owls.

The Crest, crista, is a raised tust of feathers which ornaments the Cap, pileus; and it is either situated on the Front, frontalis, on the Crown, verticalis, or on the Hind-head, eccipitalis; in direction, it is Erect, erecta, Reslected, reslexa, or Shed, deslexa; in form, it is either Flattened laterally, compressa, or in bundles, fasciculata; and in its structure, it is either Scattered, sparsa, or Folding, plicatilis, being composed of feathers alternately lying different ways.

Naked Warts, carunculae, of a fost sleshy consistence, form ornaments, or appendages, to the head and neck, in several birds; these are either on the Front, Crown, Nape, Eyebrows, Throat, or Neck.

The Neck is long, fomewhat erect, and round; immediately below the head, on the hind part, it is called the Nape, nucha; the rest of its hind part is named the Scrag, Cervix; immediately below the jaws, on the fore part, it is named the Chin, gula, and the rest of the fore part is called the Throat, jugulum.

The Trunk of the body is shaped like an egg, having the thickest end foremost; its upper part, from the neck to the rump, is the Back, dorsum, of which that part which lies between the wings may be named the Saddle, interscapulium; the Shoulders, humeri, are the sirst part of the wings which project forwards; the lower part of the body forwards is the Breast, pestus, having the Collar-bones, claviculae, joined together in a forked form; the Arm-pits, axillae, are the sides of the breast directly below the shoulders of the wings; the Flanks, hypochondria, are the posterior sides of the breast, and the sides of the belly; the Belly, abdomen, is the soft under part of the body from the end of the Breast-bone, sternum, to the Vent, anus; the Ventlet, crissum, is the under side of the Rump, uropygium, from the Vent to the Tail.

The extremities, in birds, are the Wings, alae, the Legs, pedes, and the Rump, urobygium, with the Tail, cauda. The Wings are flat, broad, extended, and composed of feveral divisions, which are articulated together by moveable joints, and are provided with strong muscles, for the purposes of slight: Their fore parts are clothed with feathers, called the Coverts, tectrices, which are distinguished into three orders; the Lesser coverts, tectrices minores, are placed on the upper and fore parts, immediately over the bones of the wings; the Greater coverts, testrices majores, immediately below the former, extend downwards, covering the origin of the Quill-feathers, remiges, and are themselves covered at their origin by the Lesser coverts; the Under coverts, rising from the bones of the wings at the under and fore parts, cover their infides, and lie over the origin of the Quill-feathers on their inner or under fide: The posterior part of the Wings are edged with the Quill-feathers, remiges, which expand into a broad fan, a little arched upwards, and by means of which the animals of this class are enabled to bear themselves through the air, in the action named flying. The Quill-feathers are usually distinguished into three orders; the Primaries, primores, are the outermost, and are, for the most part, ten in number; the Secondaries, fecundarii, are placed in the middle, and are from ten to eighteen in number; and the Tertiaries, tertiales, are on the infide, of which there are from three to five. The Scapulars, or Shoulder-coverts, fcapulares, confift of a tuft of longish feathers which arise from the root of the wings, brachiis, near the junction with the body, and lie along the fides of the back, and over the base of the wings, when shut, connecting these together, but may be easily separated, and distinguished from the others. The Shield, speculum, is a shining coloured spot, of a quadrilateral figure in general, mostly situated on the surface of the Coverts, tectricis, and fometimes, though rarely, on the Quill-feathers, remiges, of the wings; this is gonerally visible, particularly in Ducks, even when the wings are closed. The Bastard, or Spurious, wing, alula notha f. spuria, is a kind of appendage to the true or principal wing, placed near its outer extremity, at the base of the primary quill-feathers, and confifts of from three to five small feathers of the quill kind. In a small number of fpecies, which do not fly, as the Albatrofs, Penguin, Offrich, and Dodo, the Quillfeathers are entirely wanting.

The wing is composed of many bones, which may be compared, in some measure, to those of the human arm and hand: a. A lengthened arm bone, brachium; s. Two lengthened bones of the fore arm, cubiti; y. Two short bones of the wrist, carpi; s. Two moderately long bones of the back of the hand, metacarpi, connected together; s. Two singers, digites, of which the larger has two articulations, and is compressed, while the other is very small; \(\xi\). A thumb bone, pollew, of a very small size, which arises from the

fore part of the base of the metacarpal bones; this last, in a few rare instances, ends in a spine, spina, as in the Ostrich, Screamer, some Plovers, the Jacana, and a few of the Duck tribe.

The hinder extremities of birds confift of the Thighs, Legs, Toes, and Claws. The Thighs, femora, are fleshy, and generally covered with feathers, except those of Bustards, Ostriches, and the order of Waders, Grallae, which are naked on the lower half; those of web-footed water fowls are likewise somewhat naked towards the knees, but in a less degree. In most birds the thighs are so placed as to support the weight of the body in exact equilibrium, except in web-footed water fowls, on which, for the convenience of swimming, they are placed much backwards, behind the center of gravity, which causes these birds to walk in a constrained manner: In the genera of Grebe, Auk, Guillemot, and Penguin, the thighs are concealed within the common integuments of the belly, fo that in walking, which they do with great difficulty, their legs feem tied together; this is called by ornithologists Fettered legs, pedes compedes. In fome birds, as in the Coot, there is a coloured circle, fometimes two, or three, near the joint of the knee; this is called the Bracelet, armilla. The Legs, tibiae, are thin, lean, and tendinous; generally naked, being feldom clothed with down or feathers, and are fometimes covered with scales; in a few species the back parts of the legs are armed with sharp horny spurs, calcaria, especially in males.

The Toes, digiti, vary in number, disposition, and some other circumstances, from which the feet get feveral appellations, of confiderable use in diffinguishing the orders and genera of birds. In general, they may be distinguished into such as have four toes, tetrada&fyli, in which, for the most part, three of the toes stand forwards, and one backwards; and into three toed feet, tridactyli, which want the hind toe: The four-toed feet are fubdivided into feveral kinds according to the disposition of the toes; all land birds that perch on trees have three toes turned forwards, and one backwards, which may be termed Perching feet, infidentes, though ornithologists have usually called them Pedes ambulatorii, or Walking feet; in some the toes are connected, two together, but without any interposed membrane, as in the King-sisher and others, in which case they are termed Walking feet, grefforii; when two of the toes are turned forwards, and two backwards, they are called Climbing feet, fcanforii, as in Parrots, Woodpeckers, and other birds which climb much; Parrots have the power of occasionally turning one of these back toes forwards; and Owls, whose feet are of the perching kind, can at pleafure render them climbers by turning back one of the fore toes: In fome birds, as in the White-backed Coly, the Swift, and some others, all the four toes stand forwards,

when

when they are called Clinging feet, prehenfiles. When the feet have only three toes, all turned forwards, without any back toe, they are called Running feet, curforii. Only one known species, the Ostrich, has but two toes, both of which stand forwards. A small number of birds have three toes, of which two stand forwards and one backwards; this is a kind of anomalous foot of the Perching division, and is named Tridactylous, tridactyli. In water birds, for the purposes of swimming, the toes have a membranous expansion at the sides, which is variously disposed, and gives occasion to several divisions, which are useful in system: In most swimmers, as in the Duck tribe, the toes are completely connected by an interposed membrane, when they are said to be Web-stooted, palmati: Sometimes this membrane only connects the bases of the toes together, in which case the feet are termed Half-webbed, semipalmati: In others the toes are only edged with the membrane, without being connected together, when they are called Lobe-stooted, Lobati: And lastly, in some the membrane only edges the toes at the joints, forming a kind of lobes, when they are called Fin-stooted, pinnati.

The Claws, ungues, are mostly Sharp pointed, acuti; sometimes Hooked, uncinati; some are Blunt, obtust; others are Flattened, having projecting edges, marginati; a few are Toothed at the edges, serrati; and a small number of birds have no claws, mutici.

The Tail, cauda, is composed of feathers, restrices, of the pen or quill kind, which arise from the edges of the Rump, uropygium, and are covered at their bases by Tail coverts, testrices, both on the upper and under side of the rump; on the back, or upper surface, of the rump there are two glands which secrete an oily sluid, with which the birds anoint their feathers. The tail is said to be Short, brachyura, when it is shorter than the legs; and Long, macroura, when it exceeds these in length; it is called Even, integra, when the tail feathers are all of an equal length; Wedge-like, cuneata, when these are longest in the middle, and grow regularly shorter towards each side; Forked, forficata, when the middle tail feathers are the shortest, and those at the sides longer; and Rounded, arcuata, when the length increases towards the middle so as to form a regular segment of a circle.

In general, the tail confifts of twelve pens or quill feathers, rectrices, which are thus diftinguished;

that is, the two outer quills are named the first, on the right and lest sides, and so on of the rest; in some there are more of these feathers, as far as eighteen; and in others fewer, in which last case there are usually ten.

Vol. I. Fff Befides

Besides these enumerated particulars, there are a sew circumstances which deservenotice, but are not common to the whole class. Spines, spinae, are a kind of offensive horny weapons, peculiar to some birds, with which they can fight their enemies; these are sometimes situated on the fore part of the wing, in the place of the thumb of handed quadrupeds, as in the Ostrich, Jacana, Screamer, Spur-winged Plover, and some species of Ducks; at other times they are placed on the heels, when they are called Spurs, calcaria, as in the Peacock, Pheasant, and Grous; in some species, as in the Screamers, and Horned Turky, the spine is situated on the head, and is then named a Horn, cornu. Wattles, palearia, are slessly membranes which hang down from the lower mandibles of the bills, as in the Wattle-bird, and Common Cock; and in the latter animal, a Crest or Comb, crista, of a similar slessly substance, rises from the crown of the head. In the Ibis and Pelican, a Sac, sacculus, composed of a thin, tough, naked, and distensible membrane, hangs down from the lower mandibles, under the chin.

Most birds are monogamous, or live in pairs of one male and one female during the breeding season; in spring these choose their mates, after which they exert their joint industry in constructing their nests, and keep constantly together until the cares of incubation, and of rearing their young, are completed: Most of the Gallinaceous order, and of the Duck tribe, are polygamous, at least in the domesticated state; the males of these neglect their young, and in some cases would even destroy them if not carefully concealed by the semales.

The nefts of birds, which may be confidered as ferving the purposes of an uterus, are constructed with great care and wonderful artifice, though some have no nest, or hardly any; some of them are rudely constructed of sticks, but most are lined with soft materials; some are built on high inaccessible summits of rocks and mountains; others in caverns, shelves of the rocks, or burrows under ground; some on trees, in shrubs or bushes, or in the hollows of trees; some in ruined walls; some in bushes and hedges; some among long grass, or even on the bare ground. Of these nests some are built of clay, curiously knead and plastered, as those of Swallows; some are built with great ingenuity, so as to hang from the ends of the stender branches of trees; some are constructed to float on the surface of the water; some have very artful passages contrived to them; and some have many separate chambers communicating; with each other.

The eggs of birds are very various in their numbers and appearance, though each species has an appropriate shape and colour, and generally keep to a fixed number, or nearly

nearly so. The family of Auks lays only one egg for each hatching; the Divers two; Gulls three; the Crow four; Swallows from five to eight; Ducks, and the Gallinaceous birds, lay a great number.

As to place, some birds, as the Tropic-bird, only inhabit within the Tropics; some only within the Polar Circle, as the Fulmar Petrel; some in particular countries, as the Cape Petrel at the Cape of Good Hope; the Bird-of-paradife, and Peacocks, in India; the Ostrich in Africa; the Screamer, and Trumpeter, in America. Those without quills, impennes, and with fettered legs, compedes, and the Petrel genus, inhabit the ocean; the Divers are found mostly in lakes; the Merganser in rivers; the Water Ouzel about cataracts; Plovers near the sea shore; Snipes in marshes; the Bustard in champaign fields; the Shrike in the woods; Pafferine birds among trees, bushes, and hedges; the Owl in rocky places; the Magpie and Swallow about villages; the Snow Bunting and others on the tops of mountains, &c. But all birds do not always continue in the same countries; great numbers perform regular migrations at particular feasons, quitting one part of the country for some other where their food is more plentiful, and returning again at another feason to their original habitations; thus many birds which live in the northern frigid regions during the summer, migrate southwards before winter in quest of provisions, and return north again in spring or summer. This is done by most of the soft billed birds, tenuirostres, and Passerine birds, pafferes, on account of the scarcity of infects, their ordinary food, in the cold season of these northern countries; the Grallae, or Waders, are forced to the same annual change of place, because the frost prevents them from searching for worms and amphibious animals in the mud; the Anserine birds, anseres, are in winter obliged to fly fouthwards, as the water being frozen hinders them from catching fish, &c. The long and warmer days of summer, which again bring with them plenty of food, recal these birds to their northern habitations on purpose to breed. A small number of birds, inflead of migrating for food during winter, become torpid, and continue all the cold feason in a state almost resembling death, during which they cease to feed, or to digeft, and hardly breath, if at all; this state is called Hybernation, hybernatio.

The food of birds is various in the different kinds: Some are carnivorous; the Falcon tribe and Crows preys on quadrupeds, birds, and carcasses of all kinds; the Anserine tribe lives on fishes; the Humming birds, and soft-billed Passerine birds, live chiefly on insects; the Raven on the larvae of insects, and on snails; the Cuckow on Lepidopterous insects; the Ani, Beefeater, Water Ouzel, and Swallows, on various kinds of insects; the Oyster-catcher on Conchs or shell sish; the Jabiru on Crabs, &c. Some

live on vegetable food, phytiphagae; the Anserine tribe, besides sish, lives on various plants; the Parrots feed on fruit, &c.

The flight of birds is very various; most of the Falcon genus glide gently through the air, hardly moving their wings; most of the Pies sly quick, frequently slapping, or repeating the motion, of their wings; the Paradife-bird floats on the air; Woodpeckers fly by jerks, alternately finking and rifing in their progress; the Gallinaceous tribe fly strong and quickly, but soon come to the ground, owing to the size and weight of their bodies; Pigeons fly with vast swiftness; the Passerine tribe mostly fly by a quick repetition of strokes, and, except in migrating, seldom far at a time; the Swallow flies with vast velocity, continues long on the wing, and makes numerous and fudden evolutions, skimming through the air in quest of slies; many of the greater Waders have a flow and flagging flight, but the leffer fly swiftly, with their legs extended, for the most part, to make up for their want of tails; Rails and Gallinules fly with their legs hanging down; Coots and Grebes are with difficulty forced from the water, but fly fwiftly when once rifen; Grebes and Divers fly with their hind parts hanging much down, because their wings are placed far forwards on the body: Many of the web-footed birds, as Gulls, have a failing or flagging flight; Wild-geefe, in their migrations, fly in regular order, either in straight lines, or angular figures with the angle foremost, to assist in cutting the air, and the foremost bird drops behind when tired. Penguins, one species of Auk, the Dodo, Ostrich, Touyou, and Cassowary, are denied the use of slight altogether, their wings only ferving in most to assist in running, in others to clamber up the shore when they land from the water, and to help them in. fwimming and diving.

The uses of birds in the economy of nature, and for the purposes of mankind, arevarious. The Falcon tribe destroy carcasses, which would otherwise become noisome; the order of Pies, picae, devour noxious substances and worms; the Anserine tribe, anseres, lessen the too numerous inhabitants of the water; the Waders, grallae, seek for insects and worms from bogs and marshes; the Gallinaceous tribe, gallinae, pick up scattered seeds on the ground; the Passerine tribe, passeres, seed on the seeds of shrubs and plants, and frequently carry these feeds, and the ova, or spawn, of sishes and insects to places where they were not originally found, and thus help to diffeminate useful productions.

Birds are caught or killed, by means of bows and fire-arms; by falcons, and other rapacious birds trained for the purpose; and by nets, gins, traps, pitfals, and various contrivances.

ſ

Falcons

Falcons are bred up for hawking; the Faithful Jacana even herds other domestic fowls; Pelicans are taught to catch fish for their masters; the Passerine tribes are kept on account of their musical talents; Parrots and others are taught to speak; Cocks and Quails are trained to sight with each other for the sport of mankind; the Gallinaceous, Collumbine, and Anserine tribes, are domesticated.

Birds are preferved alive, and kept in aviaries, cages, or other places, for various purposes; some for the value of their feathers and quills; some for their slesh; others for their eggs; some on account of their musical talents; and others merely for their beauty.

A complete history of birds ought to contain a full description of each, their abode, their slight, their migration, their nuptials, their nests, their eggs, their hatching, the education of their young, and their food.

The generic characters of birds should be taken from the Bill, Tongue, Nostrils, Cere, Wattles, Warts, and other parts which have no seathers.

Ornithological authors may be divided into the earlier and latter writers. Of the former, Bellon, or Bellonius, who flourished in 1557, and Gesner in 1555, may be considered as the fathers of the science; Aldrovandus, in 1599, collected from their works, and made considerable additions; in 1648, Marcgrave added the newly discovered birds of Brasil; Mr Ray, in conjunction with his disciple Willoughby, formed his system in 1667, and published it in 1678; and Marsigli published several figures of birds in 1726.

Among the moderns, feveral authors have thrown great light on the subject by meansof coloured figures, resembling the life: Albinus published tables of the European birdsin 1731; Bernini published, in 1772, and from that to 1782, the birds found in the
south of Europe; Cetti, in 1776, those of Sardinia; Frischius, in 1734, those of Germany; Nozemann and Seppi, those of the Low Countries, from 1770 to 1778; some
Swedish birds were edited by Tengmalm; the Prussian by Bockius; the British birds,
in 1775, by Hayes; these and the birds of India, by Pennant, between 1768 and 1777;
one hundred new and rare birds were published by Catesby in 1731; upwards of three
hundred were published, in a very beautiful manner, by Edwards, in 1745; above nine
hundred by Daubenton, from 1775 downwards; some by Jacquin in 1784; by Merem,
from 1784 to 1786; those of the Carlsonian museum, with descriptions by Sparrmann,

in 1786. The eggs of a great number of birds are described by Gunther, and engraved by Wirsingius, in a publication of the year 1703. The anatomy and physiology of birds have been greatly illustrated by Reaumeur, Hewson, Camper, Hunter, Blumenbach, Merrem, Bloch, Vicq d'Azyr, Pallas, Guldenstaedt, Silberschlag, and Malacarne.

In the Fauna Suecica, published in 1746, I * first attempted a regular system of ornithology, which was farther perfected in the edition 1758 of the Systema Naturae. In 1760, Brisson published his system, in which he was affished by all the ingenuity, and by the museum, of the great Reaumeur. Since that time Pennant, in 1781, and Latham first in 1785, and afterwards in 1790, have published systems of ornithology, with the addition of all the latter discoveries.

Birds are preferved for inspection and study in various ways; either whole in spirits of wine; or their skins are dried; or, after taking out their sless, and brain, they are stuffed in their natural forms, with the addition of various antiseptics; or, when cut in two, and emptied of all the soft parts, one half of the skin is filled with Paris plaster, in the manner used by Schaeffer.

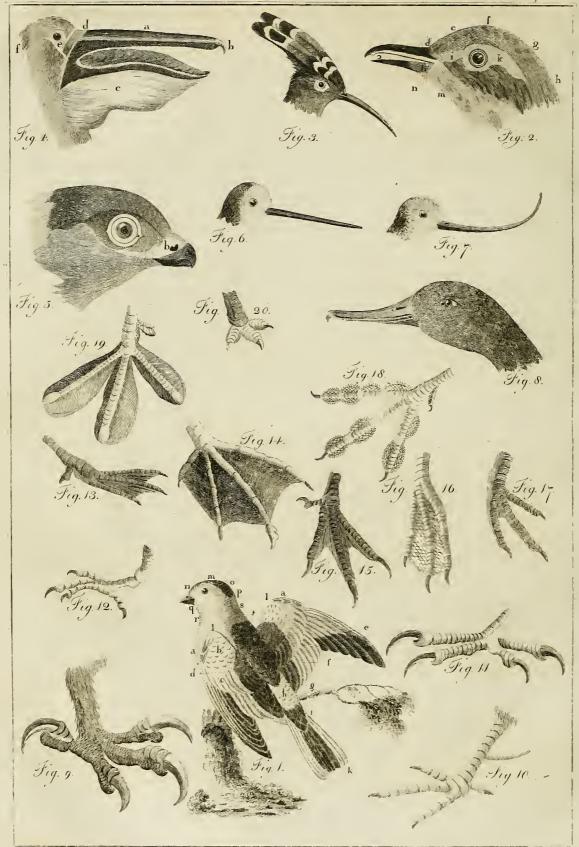
OF THE TERMS USED IN ORNITHOLOGY.

AS the terms used in ornithological descriptions are numerous, and as it is of the utmost consequence to the student of natural history to be thoroughly acquainted with them, the following enumeration of such as are most necessary, with reference to the annexed engraving, may, it is hoped, be found of considerable advantage. It is necessary to remark, that the length of a bird is to be understood as measured along the back from the tip of the bill to the end of the tail; and that by extent is meant the measure between the tips of the wings when fully extended: The under parts of the body are the breast, belly, and under surface of the rump; the upper parts are the back and rump, sometimes including the upper surface of the wings and tail, if these are not particularly described; and, with a similar reservation, the thighs, the under surface of the tail and wings, and the sides under the wings, are sometimes included

in

Linnaeus; but this part of the introduction is altered by Gmelin. T.





in the general expression of under parts: In descriptions, especially such as are employed for destinctive characters of the species and varieties, the words above and beneath are used, for shortness, to denote the upper and under parts of the body when applied generally; and sometimes they are employed particularly to signify the upper or under surfaces of the wings or tail; but in this last case that circumstance is always specified. When a bird is said to be of a particular colour, it is to be understood as expressing the prevailing colour of the body, if particular parts be mentioned, as differently coloured; otherwise the whole plumage is to be supposed of the single colour mentioned.—T.

EXPLANATION OF THE PLATE.

Fig. 1. Shews a bird extended, on purpose to explain the principal parts of the head, body, wings, and tail.

- a. The bastard wing.
- b. The leffer coverts.
- c. The greater coverts.
- d. The scapulars.
- e. The primary wing quills.
- f. The fecondary wing quills.
- g. The tertials.
- h. The rump.
- i. The tail coverts.
- k. The tail quills.
- l. The shoulders.
- m. The crown.
- n. The front.
- o. The hind-head.
- p. The nape.
- q. The chin.
- r. The throat.
- s. The fcrag.
- t. The interscapulary region.

Fig. 2. Shews the particular parts of the head.

- a. The upper mandible.
- b. The under mandible.
- c. The tooth-like process.
- d. The frontlet.
- e. The front.
- f. The crown.
 - g. The hind-head.
 - h. The nape.
 - i. The straps.
 - k. The temples.
 - I. The cheeks.
 - m. The chin.
- n. Briftles at the base of the bill.

Fig. 3. A bird's head, having a crest on the top of the head, and a stender crooked: bill.

Fig. 4. The head of a Pelican.

- a. The upper mandible.
- b. A claw-like process at the tip.
- c. A fac extended from the two fides of the under mandible.
- d. A naked frontlet.
- e. A naked orbit.
- f. A tuft or crest on the hind-head.

- Fig. 5. The head of an Eagle or Falcon.
 - a. The upper mandible, hooked at the end, and furnished with a tooth-like process.
 - b. The cere, or naked skin, which covers the base of the bill, in which the nostrils are situated.
 - c. The orbit, or region of the eye.
- Fig. 6. A slender straight bill.
- Fig. 7. A flender recurved bill.
- Fig. 8. The head of a Duck, having a flat bill, pectinated at the edges, and furnished at the tip with a claw.
- Fig. 9. A perching foot.
- Fig. 10. A walking foot, having a spur on the heel.
- Fig. 11. A climbing foot, two of the toes being turned backwards.

- Fig. 12. A peculiar kind of perching foot. Fig. 13. A webbed foot, in which the
 - fourth, or back, toe is not included in the web.
- Fig. 14. A webbed foot, in which all the four toes are connected together.
- Fig. 15. A half-webbed foot.
- Fig. 16. A three toed webbed foot, having no back toe.
- Fig. 17. A three toed, or tridactylous, foot flightly connected, but not webbed, usually belonging to some of the waders.
- Fig. 18. A finned foot.
- Fig. 19. A lobated foot.
- Fig. 20. A three toed running foot without any web, belonging to land birds; fome have only two toes.

OF THE DIVISION OF THE CLASS OF BIRDS.

THE Linnaean division of birds is only into fix orders, which the illustrious master of our science considers as having some analogy with the first fix orders of the class of Mammalia, excluding the order of Cete.

- I. Accipitres, analogous to the Ferae.
- II. Picæ, analogous to the Primates.
- III. Anseres, analogous to the Beiluae.
- IV. GRALLÆ, analogous to the Bruta.
- V. GALLINÆ, analogous to the Pecora.
- VI. Passeres, analogous to the Glires.

In the following division of the class into orders, the Linnaean arrangement is preferved; but, in imitation of the celebrated ornithologist Mr Latham, three additional orders orders are formed; which trifling alteration of the Linnaean fystem, it is hoped, will be found useful to students of natural history; perhaps it might have been better to have imitated Mr Latham's plan still farther, by separating the Terrestrial from the Aquatic birds.

No change whatever is made on the two first orders, the Accipitres and Picae.—Between the orders of Anseres and Grallae, an intermediate order is introduced, called, by Mr Latham, Pinnatipedes, or Fin-sooted birds, which differ considerably both from the Web-sooted birds, Palmipedes, and the Cloven-sooted Waders, Grallae.—The order of Web-sooted birds, Palmipedes, which answers to the Anseres of Linnaeus, is farther subdivided, but without instituting an additional order, into such as have long legs, and have their feet only half webbed, Semipalmati, and those which are completely webbed and have short legs.—The order of Gallinae, which may, in English, be rendered Poultry, is preserved as in the Linnaean arrangement; but a small number of birds, which differ very essentially from the rest in their characters, are separated into a distinct order named Strutiones, as resembling the Ostrich, Struthio, in characteristic marks.—Lastly, the order of Passers, or small birds, is preserved exactly as in the Linnaean division of the class, except only that the genus of Doves, Columbae, from having very essential characters differing materially from the rest, is placed by itself as a separate order.

As a translator, the Editor of this English edition of the Animal Kingdom had certainly no right to alter the Linnaean arrangement; but, instructed by the examples of Mr Pennant and Mr Latham, he has taken the liberty of subdividing some of these orders, and of altering, in a slight degree, the situation of a very small number of the genera, which he hopes will be of considerable use to the ornithological student. Yet, however much he may be convinced that this alteration was for the better, he certainly should not have hazarded any deviation from the plan of the Linnaean system, if Dr Gmelin had not, in repeated instances, sanctioned this freedom by similar alterations, to adapt the system of his great precursor to the advanced state of natural knowledge in which he found it.

CHARACTERS

OFTHE

ORDERS OF BIRDS.

1. ACCIPITRES, OR RAPACIOUS BIRDS.

THE bill is somewhat crooked downwards, having the upper mandible either dilated a little towards the point, or armed with a tooth-like process; and the nostrils are open.—The legs are short and strong; the feet are of the kind called perching, having three toes forwards, and one backwards; the toes are warty under the joints; the claws are hooked and very sharp at the points.—The body, head, and neck, are very muscular; and the skin is very tough. The animals of this order live by preying on other animals, and on dead carcasses; and their slesh is unsit to be eaten. They live in pairs, and build their nests in losty places; the semale is generally larger and stronger than the male, and usually has sour eggs each brood.

H. PICÆ, OR PIES.

The bill is sharp edged, and convex on its upper surface.—The legs are short, strongish, and of different kinds, some perchers, some climbers, and some sitted for walking, that is, having no back toe.—The body is sirmly constructed.—The birds of this order live on various kinds of food, and are mostly reckoned unsit for food. They pair in the breeding season, building their nests on trees; and the male seeds the semale during the process of incubation, or hatching.

III. PALMIPEDES, OR WEB-FOOTED BIRDS.

* Having long legs.

The body is conical and somewhat flattened.—The thighs are naked on their lower halves; the legs are very long; the seet are sitted for wading; and the toes are only connected together at their posterior parts by a membrane, femipalmati.—These birds mostly pair in breeding time, and build their nests on the ground. They seed in the

water on small fishes, and various insects; and, especially when young, are pretty good eating.

** Palmati. Having short legs.

The bill is is smooth, covered with a membranous skin, and increases in size towards the point.—The feet are fitted for swimming, having short legs, which are thin, or compressed laterally; and the toes are all connected, to their ends, by an interposed membrane.—These birds are mostly polygamous, one male affociating with many seemales; they build their nests chiefly on the ground, and the mother seldom takes any trouble in feeding the young, which are very soon able to provide for themselves; they live very much in the water, feeding on aquatic plants, sishes, and other substances, and their sless generally a rancid sishy slavour.

IV. PINNATIPEDES, OR FIN-FOOTED BIRDS.

The bill, body, and mode of life, in the birds of this order, resemble those of the Waders.—The thighs are likewise naked for the lower half, and the feet are fitted for wading in marshes, all the toes being divided; but the toes are edged on each side with a membrane for their whole length. These birds mostly live in pairs, while breeding, and construct very large nests of various leaves and grass, in their marshy haunts.

V. GRALLÆ, OR WADERS.

The bill is somewhat cylindrical.—The thighs are half naked above the knees; the legs are longish, and the feet are sitted for walking, or wading in miry places, having all the toes distinct, and destitute of any interposed membranes.—The body is thin and compressed at the sides, having a very thin skin.—The birds of this order mostly build their nests on the ground, living some in pairs, and others promiscuously.—They live much among sens and marshes, feeding on worms, and other animal productions of such places; and in general they are reckoned delicate eating.

W. GALEIN Æ, OR POULTRY.

The bill is convex, the upper mandible lying like an arch over the lower; and the nostrils are arched over with a cartilaginous membrane.—The feet are of the kind called Runners; cursorii, and the toes are rough underneath.—The body is fat and fleshy.—The birds of this order live mostly on the ground, scraping the earth with their feet, and feeding on grain and seeds, which are macerated in a crop before digestion; this operation is performed by means of a strong muscular stomach called the Gizzard; their flesh is universally sit for food.—They live mostly in polygamous families of one male and many semales, building their ness with very little art on the

ground, and the females lay great numbers of eggs each brood; they generally lead their young ones very early in quest of food, which they point out to them by a particular call.

VII. STRUTHIONES, OR STRUTHIOUS BIRDS.

The body is very bulky and heavy, and is fcarcely eatable.—The wings are either entirely wanting, or are very small and altogether useless for slight.—The feet are sitted for running, having the toes variously disposed in the different genera.—The birds of this order live in pairs, when breeding; build their nests on the ground, or even leave their eggs there without any nest; and they feed on vegetables and seeds.

VIII. PASSERES, OR PASSERINE BIRDS.

The bill is of a conical form, and pointed at the end.—The feet are fitted for perching and hopping, the toes being flender and divided, with flender bent sharp claws.—The body is flender.—The birds of this order mostly live in pairs when breeding, building artificially constructed nests, in various situations; they mostly sing; they feed some on seeds, and others on insects, keeping much on the branches of trees, bushes, and hedges; and they feed their young ones by pushing the food down their throats from their own bills. Such as live on insects are reckoned unsit for food, but those that feed on feeds and grain are good eating.

IX. COLUMBÆ, OR DOVES.

The bill is straightish, and is swelled out at the base.—The legs are short, with feet fitted for walking, which have simple short, blunt, claws.—The body is sleshy, and makes very good high flavoured food.—This race of birds lives in pairs, when breeding, making very inartificial nests on trees, or in hollow places of rocks and caverns; they feed on seeds, grain, and fruits, having a crop and gizzard like the Gallinaceous birds, and they feed their young ones with such food as has been already macerated in the crops of the mother.

CHARAC.

CHARACTERS

OF THE

GENERA OF BIRDS.

I. ACCIPITRES, OR RAPACIOUS BIRDS.

1. Vultur. 41. *. The bill is hooked at the end; and the head is I. Vulture. naked. 2. Falco. 42. The bill is hooked at the end, and its base is 2. Falcon. covered with a naked membrane. * Bastard-eagles. Gypaëti. The end of the bill only is hooked, and its base has a beard of long briftles. ** Eagles. Aquilae. Of great fize, and mostly having hairy or feathery *** Hawks. Falcones. Of fmaller fize, with naked feet. 3. Strin. 43. 3. Owl. The bill is hooked at the end, and has a frontlet of reversed briftles.

4. Shrike. 4. Lanius. 44. The bill is almost straight, and is notched near the end.

H. PICÆ, OR PIES.

* With perching feet.

10. Beef-eater. † 8. Buphaga. 48. A straight quadrangular bill.

12.

* The three fets of numerals employed in this edition, to the genera of birds, are to be thus understood: The numerals prefixed to the English name of each genus marks its order in the class of birds of this edition: The numeral prefixed to the Latin name of the genus shews the order of arrangement followed in Dr Gmelin's edition of the Systema Naturae; and where that numeral is wanting, the genus has been added from Latham's Index Ornithologicus: The numeral which follows the Latin name is prefixed to each genus by Dr Gmelin, as a running number of the genus in the Animal Kingdom; where that is wanting, and at the same time a numeral precedes the Latin name, the genus has been added by Dr Gmelin.—T.

+ It may be necessary to remark, that the apparent confusion of the running numbers of the general

12.	Wattlet.	10.	Glaucopis.	An arched bill, bent downwards.
13.	Crow.	II.	Corvus. 50:	A sharp edged bill, and reversed frontlet.
14.	Roller.	1.2.	Corracias. 51.	A sharp edged bill, with the point bent down-
		,	ş	wards.
15.	Oriole.	13.	Oriolus. 52.	A straight, conical, and very sharp pointed bill.
16.	Grakle.	14.	Gracula. 53.	A sharp edged equal bill, naked at the base.
17.	Paradifet.	15.	Paradisea. 54.	A sharpish edged bill, with a silky frontlet.
25.	Nut-hatch.	21.	Sitta. 60.	A straight bill, wedge-like at the end.
28.	Hoopoe.	25.	Upupa. 64	A bluntish bill, bent downwards.
29.	Creeper.	26.	Certhia. 65.	A.sharp pointed bill, bent downwards.
30.	Hummer.	27.	Trochilus. 66.	A narrow bill, tubular at the end, and bent:
				downwards

** With climbing feet.

5	Parrot.	5. Psittacus. 45.	A hooked bill, and fleshy tongue.
6.	Toucan.	6. Ramphastos. 46.	A ferrated bill, and feathery tongue.
8,	Scythrops.	Scythrops.	A sharp edged bill, and split tongue.
11:	Ani.	9. Crotophaga. 49.	A wrinkled bill, angular at the edges.
18.	Curucui	16. Trogon. 55.	A ferrated bill, hooked at the point.
19.	Barbet.	17. Bucco. 56.	A fmooth notched bill, hooked at the points.
20.	Cuckow.	18. Cuculus. 57.	A fmooth bill; with a rim round the nof
			trils.
21.	Wryneck.	19. Vinx. 58:	A fmooth bill, with a worm-like tongue.
22.	Woodpecker.	20. Picus. 59.	An angular bill, with a worm-like tongue.
23.	Jacamar.	Galbula.	An angular and very sharp pointed bill.

*** With walking feet.

7.	Motmot.	Momotus.	An angular bill, and feathery tongue:
9.	Hornbill.	7. Buceros. 47.	Asferrated bill, with a horny front.
24.	Kingsfisher.	23. Alcedo. 62.	A straight triangular bill.
27.	Bee-eater:	24. Merops. 63.	The bill is compressed, and bent downwards.
26.	Tody.	22: Todus. 61:	A straight, flattened, slender bill.:

IH.

nera is occasioned by the strictly artificial arrangement in which they are here placed, to facilitate the discovery of any particular genus which may be wanted; but the order in which they are placed, in the body of the work, being more natural, and the different genera that resemble each other being placed as near together as possible, without so much attention to artificial distinctions, these numbers which precede the English names must be understood as expressing the more natural arrangement:

The uses of the other two sets of numbers have been already explained in the preceding note.—T.

III. PALMIPEDES, OR WEB-FOOTED BIRDS.

* Half-webbed, having long legs. Semipalmati.

31. Avoset.	53. Recurvirostra. 89.	A flattened, slender, pointed bill, bent up wards.
32. Courier.	49. Corrira.	A short, straight, narrow, toothless bill.
33. Flamingo.	41. Phoenicopterus. 79.	A denticulated bill, bent upwards abruptly.
	** Full-webbed, havin	ng short legs. Palmati.
34. Duck.	28. Anas. 67.	A broad bill, with a claw at the point of the upper mandible, and having mem-
		branous teeth at the edges.
35. Merganser.	29. Mergus. 68.	A flender bill, with a claw at the point, and having sharp teeth at the edges.
36. Auk.	30. Alca. 69.	The bill is flattened at the sides, with transverse lateral wrinkles; the feet
•		have three toes.
37. Penguin.	31. Aptenodyta.	The bill is straight, narrow, furrowed at the sides, and a little bent downwards
	•	at the point; the wings refemble fins,
0 D-41	D	and are useless for flight.
38. Petrel.	32. Procellaria. 70.	The bill is straight, and hooked at the end;
_ '		the nostrils resemble a tube lying on
		the base of the bill; the feet have each a spur in place of a back toe.
39. Albatross.	33. Diomedea. 71.	The lower mandible is abrupt, the upper
39. 211Datiois.	33. Diometica. 71.	one hooked at the end; the feet have
,		three toes.
40. Pelican.	34. Pelicanus. 72.	The face is naked; a membranous bag
	,	hangs down from the under mandible.
41. Darter.	35. Plottus. 73.	The bill is long, straight, sharp pointed,
	,	and ferrated at the edges; the neck is very long.
42. Tropicer.	36. Phaeton. 74.	The bill is flattened at the sides, sharp-
420 210 piccis	20. 7 1000,011. 141	edged, and ferrated.
43. Guillemot.	Uria.	The bill is straight, stender, strong, and
,		pointed; the feet have only three toes.
		44.

44. Diver.	37. Colymbus. 75.	The bill is straight, strong, and pointed,
		the edges of the mandibles bending
		inwards; the legs are fettered.
45. Gull.	38. Larus. 76.	The under part of the lower mandible,
	•	near the point of the bill, is prominent.
46. Tern.	39. Sterna. 77.	The bill is straight, slender, pointed, and
		flattened latterally at the end.
47. Skimmer.	40. Rynchops. 78.	The upper mandible is shorter than the
		under one.

IV. PINNATIPEDES, OR FIN-FOOTED BIRDS.

	•	
48. Phalarope.	Phalaropus.	The bill-is straight and slender.
49. Coot.	56. Fulica. 91.	The bill is strong, thick, conical, and
•		fomewhat flattened at the fides; the
		front is composed of the base of the
		bill, and is naked.
50. Grebe	Podiceps.	The bill is long, slender, and sharp point-
		ed; the feet are fettered; the tail is
		wanting.
	TY OT ATT	TE TILATED C

V. GRALLÆ, OR WADERS.

51. Spoonbill.	42. Platalea, 80.	The bill is long, broad, flat, thin, and much widened at the end.
52. Screamer.	43. Palamedea. 81.	The bill is sharp, and hooked at the end.
53. Jabirou.	44. Mycleria. 82.	The bill is long, large, and bent upwards; the upper mandible thicker, and trian- gular.
54. Boat-bill.	45. Cancroma. 83.	The bill is broad, and flat, having a ridge along the middle like the keel of a reversed boat.
55. Umbre.	46. Scopus.	The bill is thick, flattened at the fides, blunt, and ridged.
56. Heron.	47. Ardea. 84.	The bill is long, strong, straight, and sharpish.
57. Ibis.	48. Tantalus. 85.	The bill is crooked; the face naked; and the chin is furnished with a bag.

59. Curlew.	Numenius.	The bill is crooked; and the face is covered with feathers.
58. Snipe.	50. Scolopax. 86.	The bill is straight, long, roundish, and bluntish.
60. Sandpiper.	51. Tringa. 87.	The bill is straight, roundish, and blunt; the back toe hardly reaches the ground.
61. Plover.	52. Charadrius. 88.	The bill is straight and roundish; the feet have no back toe.
62. Runner.	Curforius.	The bill is roundish, and hooked at the point; the feet have no back toe.
63. Oyster catcher.	54. Haematopus. 90.	The bill is flattened at the fides, and wedge- like at the end; the feet want the back toe.
64. Pratincole.	55. Glareola.	The bill is short, strong, straight, and hooked at the end; the nostrils are long, narrow, and oblique.
65. Sheath-bill.	57. Vaginalis.	The bill is thick, and conical, and the ex- tremity of the upper mandible is cover- ed with a horny sheath, lying over the nostrils.
66. Jacana.	58. Parra. 92.	The base of the bill is beset with moveable warts.
67. Rail.	59. Rallus.	The bill is somewhat ridged on the back; the body is flattened at the sides.
68. Gallinule.	·Gallinula.	The bill is thick at the base, straight, and sharp pointed; the front is naked.
	VI. GALLIÑÆ,	OR POULTRY.
70. Bustard.	бі. Otis. 95.	The bill is fomewhat convex; the tongue is notched; the feet want the back toe.
71. Peacock.	64. Pavo. 98.	The bill is short, strong, and convex; the crown is ornamented with an erect crest of feathers.
72. Turkey.	65. Meleagris. 99.	The face and neck are covered with naked warty flesh.
73. Penelope.	66. Penelope.	The bill has no cere; the head is clothed with feathers.
Vol. I.	ΉH	1 h 74.

74. Curasso.	67. Crax. 100	The bill is covered at the base with a cere.
75. Pheafant.	68. Phaisanus. 101	The cheeks are naked and smooth.
76. Pintado.	69. Numida. 102.	Has two pendant wattles at the base of the bill.
79. Tinamou.	Tinamus.	The bill is longish, and blunt at the end, having the nostrils about its middle.
77. Grous.	70. Tetrao. 103.	The bill is strong, short, and convex; above each eye is a naked coloured skin.
78. Partridge.	Perdix.	The bill is strong, short, and convex; the space above each eye is covered.
69. Trumpeter.	60. Psophia. 94.	The bill is short, and a little convex on the upper mandible; the nostrils are oval and pervious; the lower half of the thighs are naked.

VII. STRUTHIONES, OR STRUTHIOUS BIRDS.

83. Dodo.	63. Didus. 97.	The bill is large, straitened in the middle, and hooked at the end; the face is al-
	ų	most naked; the feet have three toes
		before and one behind.
82. Tougai.	Rhea.	The bill is straight, and somewhat conical;
		the feet have three toes before, and a
		callosity in place of the back toe.
81. Caffowary.	Cafuarius.	The bill is straight, and somewhat conical;
		the feet have three toes before, and
		none behind.
80. Ostrich.	62. Struthio. 86.	The bill is straight, flattened, and blunt;
		the feet have two toes before, and none
		behind.

VIII. PASSERES, OR PASSERINE BIRDS.

* Having thick bills. Craffirostres.

89. Grossbeak. 77. Loxia. 109. The bill is very thick at the base, and of a conical form, being convex both above and below.

- 288.	Coly,	76.	Colius.	The bill is convex above, and straight be-
				low.
92.	Finch.	80.	Fringilla, 112.	The bill is conical, and sharp pointed.
93•	Rara.	8 I.	Phytotoma.	The bill is straight, conical, and serrated.
90.	Bunting.	78.	Emberiza. 110.	The bill is fomewhat conical, its under
				mandible being broader, and turned
			1	inwards at the edges.

** Having the end of the upper mandible fomewhat hooked. Curvirostres.

100. Goatsucker.	87. Caprimulgus. 118.	The bill is hooked, flattened, excessively
		wide in the gap, and fringed at the
		base; the nostrils are tubular.
99. Swallow.	86. Hirundo. 117.	The bill is short, broad at the base, flat-
		tened, sharp pointed, and somewhat
		hooked.
97. Manakin.	84. Pipra. 115.	The bill is short, strong, and slightly hook-
		ed.

*** Having the upper mandible notched, on each fide, near the end. Emarginatirostres.

86. Thrush.	.74. Turdus. 107.	The bill is tapering, and pointed, having the base flattened at the sides.
87. Chatterer.	75. Ampelis. 108.	The bill is tapering, pointed, and some- what flattened at the base.
91. Tanager.	79. Tanagra. 111.	The bill is tapering, and pointed; and the base is of a conical form.
94. Flycatcher.	82. Muscicapa. 113.	The bill is tapering, and pointed; and the base is flattened and fringed with bristles.

**** Having straight, slender, tapering, sharp pointed, bills. Simplicirostres.

85. Stare.	73. Stúrnus. 106.	The bill is flattened at the end.
84. Lark.	72. Alauda. 105.	The tongue is cloven; the claw of the
		back toe is very long.
95. Wagtail.	83. Motacilla. 114.	The end of the tongue feems torn; the
		tail is long.
96. Warbler	· Sylvia.	The end of the tongue is cloven; the tail
		is short

98. Titmouse.

85. Parus. 116.

The tongue feems cut off at the end, and is fringed with three or four briftles; the frontlet confifts of reflected briftles which cover the nostrils.

IX. COLUMBÆ, OR DOVÉS.

101. Pigeon.

71. Columba. 104.

The bill is weak, flender, ftraight at the base, and a little protuberant near the end, where the nostrils are lodged.

SYSTE

SYSTEMATIC CATALOGUE

OF THE

B I R D S.

I. RAPACIOUS BIRDS.

VULTURE. VULTUR. 1 Condour 1 Vultur Gryphus 2 White-headed Vulture 2 Vultur leucocephalus β. V. leucocephalus nor-3 Norwegian White-headed Vulture vegicus 4 Sardinian White-headed y. V. leucocephalus fardi-Vulture 5 SootyWhite-headedVul-5. V. leucocephalus fuliginofus White-headed s. V. leucocephalus ben-6 Bengal Vulture galenfis 3 Vultur Papa 7 King Vulture 8 Arabian Vulture 4 Vultur Monachus 9 Carrion Vulture Vultur Aura 10 Black Carrion Vulture β. V. Aura niger In Cinereous Vulture 6 Vultur cinereus 12 Blackish Cinereous Vult. β. V. cinereus nigricans 13 Maltese Vulture Vultur fuscus 14 Black Vulture 8 Vultur niger 15 Fulvous Vulture 9 Vultur fulvus 16 Aquiline Vulture 10 Vultur Percnopterus 17 Egyptian Aquiline Vult. β. V.Percnopterusaegyptius 11 Vultur cristatus 18 Crefted Vulture 19 Barbary Vulture 12 Vultur barbarus 20 Pondichery Vulture 13 Vultur pondicerianus 21 Indian Vulture 14 Vultur indicus 22 Gingi Vulture 15 Vultur ginginianus FALCO.FALCON. ii Divided into

* BASTARD-EAGLES.

26 Tawny Baftard-eagle27 Angola Baftard-eagle

28 Bearded Baftard-eagle

29 Golden Baftard-eagle

30 Persian Bastard-eagle

23 Secretary

24 Harpy 25 Black Harpy GYPAETI.

1 Gypaetus ferpentarius2 Gypaetus Harpyja

Gypaetus angolenfis

β. G. barbatus aureus

y. G. barbatus perficus

3 Gypaetus Jacquini 4 Gypaetus ambuftus

6 Gypaetus barbatus

32 Plaintive Bastard-eagle
33 Cheriway
** EAGLES.
34 Crowned Eagle
35 Chilese Eagle
36 Common Eagle
37 German Eagle 38 Bald Eagle
38 Bald Eagle
39 Olprey
40 Golden Lagle
39 Ofprey 40 Golden Eagle 41 Tawny Eagle 42 Canadian Tawny Eagle
42 White bellied Eagle
43 White-bellied Eagle 44 Japanefe Eagle 45 American Eagle
45 American Faole
46 White Eagle
47 Louisiana Eagle
48 Small Eagle
49 Spotted Eagle
50 White-tailed Eagle
51 French Eagle
52 Antartic Eagle
53 Black-backed Eagle
54 White-crowned Eagle
6 Crefted Fogle
55 Ruffian Eagle 56 Crefted Eagle 57 Rough-legged Eagle 58 Greenland Eagle 59 Fierce Eagle 60 Javan Eagle
58 Greenland Eagle 59 Fierce Eagle 60 Javan Eagle 61 Egyptian Eagle 62 Kite
50 Fierce Eagle
60 Javan Eagle
61 Egyptian Eagle
62 Kite
103 Siberian Kite
64 Russian Kite
65 Jaic Kite
66 Black Kite

67 Austrian Kite

68 Brafilian Kite

31 Cinereous Bastard-eagle

8 Gypaetus plancus
8 Gypaetus plancus 9 Gypaetus Cheriway
AQUILÆ.
112,0112,22.
1 Aquila coronata
2 Aquila Tharus
3 Aquila Melanaetos
4 Aquila Glaucopis
5 Aquila leucocephala
6 Aquila Offifraga
7 Aquila Chryfaetos 8 Aquila fulva
8 Aquila fulva
β. A. fulva canadensis
9 Aquila leucogaster 10 Aquila japonensis
10 Aquila japoneniis
1 1 Aquila americana
12 Aquila alba
13 Aquila candida
14 Aquila naevia
15 Aquila maculata
16 Aquila albicauda
17 Aquila gallica 18 Aquila auftralis 19 Aquila melanonota
18 Aquila aultralis
19 Aquila melanonota
20 Aquila leucoryphos
20 Aquila leucoryphos 21 Aquila Mogilnik
22 Aquna cratata
23 Aquila lagopus
24 Aquila groenlandica
25 Aquila ferox
26 Aquila javanica
27 Aquila aegypta. 28 Aquila Milvus
β. A. Milvus fibiricus
2. A. Milvus Korfchus
X. VI. MILLARY EXOLICITAL

8. A. Milvus jaicenfis

29 Aquila atra

30 Aquila austriaca

31 Aquila brafilienfis

7 Gypaetus Albicilla

4. ~	0 11 1 11 1		
69 Peruvian Kite	32 Aquila peruviana	121 White Iceland Falcon	B. F. islandus albus
70 Balbuzard	33 Aquila Haliaetos	122 Spotted Iceland Falcon	y. F. islandus maculatus
71 Ruffian Balbuzard	β. A. Haliaetos arundina-	123 Barbary Falcon	28 Falco barbarus
/ I Truman Darbuzaru			
ma Carolina Bulbugand	A Halizatableandinan	124 Peregrine Falcon	29 Falco peregrinus
72 Carolina Balbuzard	y. A. Haliaetos carolinen-	125 Tartarian Peregrine Fal-	β. F. peregrinustartaricus
To Communa Pallanana	fis	con	an Falsa francis I :
73 Cayenne Balbuzard	8. A. Haliaetoscayennen-	126 Variegated Falcon	30 Falco verficolor
D.T. C	ins	127 Booted Falcon	31-Falco pennatus
74 Mansfeny	34 Aquila antillarum	128 Chocolate Falcon	32 Falco spadiceus
75 Chinese Eagle	35 Aquila finensis	129 White-rumped Choco-	β. F. fpadiceus leucourus
76 Cheela	36 Aquila Cheela	late Falcon	T
77 Afiatic Eagle	37 Aquila afiatica	130 St John's Falcon	33 Falco Sti johannis
78 New-holland Eagle	38 Aquila novae hollandiae	131 Sacre	34 Falco facer
79 Urubutinga .	39 Aquila Urbutinga	132 American Sacre	β. F. facer americanus
80 Pondichery Eagle	40 Aquila pondiceriana	133 Newoundland Falcon	35 Falco novae-terrae
81 Equinoctial Eagle	41 Aquila aequinoctialis	134 Starry Falcon	36 Falco stellaris
		135 Northern Falcon	37 Falco hyemalis
*** FALCONS & HAWK	S. FALCONES.	136 Rhomboidal Falcon	38 Falco rhombeus
THIS COND & TIM WA		137 Black-necked Falcon	39 Falco nigricollis
82 Oriental Hawk	i Falco orientalis	138 White-necked Falcon	40 Falco albicollis
83 Indian Hawk	2 Falco indicus	139 Red-headed Falcon	41 Falco meridionalis -
84 Common Buzzard	3 Falco Buteo	140 Crefted Falcon	42 Falco cirrhatus
785 Greater Buzzard	4 Falco gallinarius	141 Pied Falcon	43 Falco melanoleucos
86 Spotted Buzzard	β. F. gallinarius naevius	142 Ceylonese Falcon	44 Falco ceylanenfis
87 Jamaica Buzzard	5 Falco jamaicenfis	143 Grey Falcon	45 Falco grifeus
88 American Buzzard	6 Falco borealis	144 Brown Gyrfalcon	46 Falco Gyrfalco
89 Rufous Buzzard	7 Falco rufus	145 White Gyrfalcon	47 Falco candicans
90 Speckled Buzzard	8 Falco variegatus	146 Iceland Gyrfalcon	β. F. candicans islandus
91 Whitish Buzzard	9 Falco albidus	147 Surinam Falcon	48 Falco fufflator
92 Honey Buzzard	10 Falco apivorus	148 Laughing Falcon	49 Falco cachinnans
93 Moor Buzzard	II Falco aeruginofus	149 Streaked Falcon	50 Falco melanops
94 Sclavonian Buzzard	12 Falco felavonicus	150 Notched Falcon	51 Falco bidentatus
95 Croatian Buzzard	13 Falco marginatus	151 Common Lanner	52 Falco Lanarius
96 Rufty Euzzard	14 Falco rubiginofus	152 White Lanner	β. F. Lannarius albicans
97 Java Buzzard	15 Falco javanicus	153 Spot-tailed Lanner	y. F. Lanarius celiurus
98 Cinercous Buzzard	16 Falco cinercus	154 Blue Hawk	53 Falco cyaneus
99 Streaked Buzzard	17 Falco lineatus	155 Ring-tail Hawk	54 Falco pygargus
100 Leverian Falcon	18 Falco leverianus	156 Hudsons Hawk	55 Falco hudfonius
101 Flain Falcon		157 Scarlet Hawk	56 Falco Buffoni
102 Collared Falcon	19 Falco obfolctus		T 4
103 New-zealand Falcon	20 Falco rufticolus	158 Marsh Hawk	57 Falco uliginofus
104 Goshawk	21 Falco novae-feelandiae	159 Stone Falcon	58 Falco Lithofalco 59 Falco montanus
	22 Falco palumbarius	160 Mountain Falcon 161 Ash coloured Mountain	
105 Cayenne Falcon	23 Falco cayennentis		β. F. montanus cinereus
106 Long-tailed Falcon	24 Falco macrourus	Falcon	60 Falco Tinnungulus
107 Gentle Falcon	.25 Falco gentilis	162 Common Keftril	60 Falco Tinnunculus
108 Common Falcon	26 Falco communis	163 Grey Keftril	β. F. Tinnunculus grifeus
109 Yearling Falcon	ε. Τ. communis hornoti-	164 Lark Keftril	7. F. Tinnunculus alauda-
T7 7 E-1	nus :	- C D 1 7.1 1.	rius
110 Haggard Falcon	y. F. communis gibbofus	165 Bohemian Hawk	61 Falco bohemicus
111 White-headed Falcon	% F. communis leucoce-	166 Fishing Falcon	62 Falco pifcator
. 3171 % . 33.1	phalus	167 Brown Hawk	63 Falco badius
112 White Falcon	f. F. communis albus	168 Aquiline Falcon	64 Falco aquilinus
113 Black Falcon	ζ. F. communis ater	169 American Hawk	65 Falco fuscus
114 Spot-winged Falcon	7. F. communis nacvius	170 Sparrow Hawk	65 Falco Nifus
115 Brown Falcon	9. F. communis fuscus	171 Spotted Sparrow Hawk	β. F. Nifus maculatus
116 Red-spetted Falcon	. F. communis ruber	172 White Sparrow Hawk	γ. F. Nifus lacteus
117 Tawny Falcon	r. F. communis indicus	173 Dubious Falcon	67 Falco dubius
118 Italian Falcon	λ. F. communis italicus	174 Dufky Falcon	68 Falco obscurus
119 Arctic Falcon	μ. F. communis arcticus	175 Pigcon Hawk	69 Falco columbarius
120 Iceland Falcon	27 Falco islandus	176 Grey Pigeon Hawk	β. F. columbarius griseus

227 Sooty Owl

70 Falco superciliosus

177 Guiana Falcon

223 Snowy Owl

226 Barred Owl

224 Speckled Snowy Owl 225 Swedish Owl 20 Strix Nyctea

22 Strix nebulofa

B. S. Nyctea striata

21 Strix Tengmalmi

23 Strix cincrea

177	Guiana Faicon	70 rateo juperemonis	227 300ty OWI	23 Birth Cinerea
178	Ingrian Falcon	71 Falco vespertinus	228 Spectacle Owl	24 Strix perspicillata
	Permian Falcon	72 Falco vespertinoides	229 Spotted Owl	25 Strix maculata
	Great-billed Falcon	73 Falco magniroftris	230 Coquimbo Owl	26 Strix cunicularia
	Criard Falcon	74 Falco vociferus	231 Sacred Owl	27 Strix Aluco
182	Johanna Falcon	75 Falco johannensis	232 Austrian Owl	28 Strix fylveftris
183	Common Hobby	76 Falco Subbuteo	233 White Owl	29 Strix alba
184	Northern Hobby	β. F. Subbuteo borealis	234 Reddish Owl	30 Strix Noctua
	Surinam Hobby	77 Falco aurantius	235 Rufty Owl	31 Strix rufa
	Smaller Surinam Hobby	β. F. aurantius minor	236 French Owl	32 Strix folonicusis
	Spotted Surinam Hobby	γ. F. aurantius maculatus	237 Mountain Owl	33 Strix barbata
	Spot-tailed Hobby	78 Falco plumbeus	238 Common Owl	3.4 Strix flammea
189	Common Merlin	79 Falco Aefalon	239 Screech Owl	35 Strix ftridula
190	New-york Merlin	β. F. Aefalon novebora-	240 Brown Owl	36 Strix Ulula
		cenfis :	241 Leffer Brown Owl	\$. S. Ulula minor
TOT	Caribbee Merlin	y.F. Aefalon caribaearum	242 Arctic Owl	37 Strix arctica
	Falconers Merlin	S. F. Aefalon falconario-	243 Canadian Owl	38 Strix funerea
192	rateoffers within			
	C " " "	rum	244 Hudions Owl	39 Strix hudfonia
	Carolina Merlin	80 Falco Sparverius	245 Ural Owl	40 Strix uralenfis
194	Domingo Merlin	81 Falco dominicensis	246 Cafpian Gwl	41 Strix accipitrina
	Minute Falcon	82 Falco minutus	247 Java Owl	42 Strix javanica
	Bengal Falcon	83 Falco cerulefcens	248 New-zealand Owl	43 Strix novae-feelandiae
	Siberian Falcon	84 Falco regulus	249 Spotted New-zealand	e.S. novae-feelandiae ma-
198	Tiny Falcon	85 Falco pumilus	IwO o	culata.
			250 Cayenne Owl	44 Strix cayennensis
	OWL. ii	STRIX.	251 Domingo Owl	45 Strix dominicenfis
	J 2		252 New-spain Owl	46 Strix Tolchiquatli
	* Eared,	r Horned.	253 Chichictli Owl	47 Strix Chichictli
		1 110111001		-1/
	•		254 Acadian Owl	48 Striv acadica
100		1 Strix Bubo	254 Acadian Owl	48 Strix acadica
	Great Owl	1 Strix Bubo	255 Little Owl	49 Strix pafferina
200	Great Owl Athenian Great Owl	r Strix Bubo β. S. Bubo athenienfis	255 Little Owl 256 American Little Owl	49 Strix pafferina 8. S. pafferina americana
200	Great Owl Athenian Great Owl Smooth-legged Great	1 Strix Bubo	255 Little Owl	49 Strix pafferina
200	Great Owl Athenian Great Owl Smooth-legged Great Owl	1 Strix Bubo \$\rho\$. S. Bubo atheniensis \$\gamma\$. S. Bubo nudipes	255 Little Owl 256 American Little Owl	49 Strix pafferina 8. S. pafferina americana
200 201 202	Great Owl Athenian Great Owl Smooth-legged Great Owl Variegated Great Owl	 Strix Bubo β. S. Bubo athenienfis γ. S. Bubo nudipes δ. S. Bubo variegata 	255 Little Owl 256 American Little Owl 257 Ruffian Little Owl	49 Strix passerina β. S. passerina americana γ. S. passerina rossica
200 201 202	Great Owl Athenian Great Owl Smooth-legged Great Owl	1 Strix Bubo \$\rho\$. S. Bubo atheniensis \$\gamma\$. S. Bubo nudipes	255 Little Owl 256 American Little Owl	49 Strix passerina β. S. passerina americana γ. S. passerina rossica
200 201 202 203	Great Owl Athenian Great Owl Smooth-legged Great Owl Variegated Great Owl	 Strix Bubo β. S. Bubo athenienfis γ. S. Bubo nudipes δ. S. Bubo variegata 	255 Little Owl 256 American Little Owl 257 Ruffian Little Owl SHRIKE. iv	49 Strix passerina β. S. passerina americana γ. S. passerina rossica γ. L A N I U S.
200 201 202 203 204	Great Owl Athenian Great Owl Smooth-legged Great Owl Variegated Great Owl Virginian Owl Scandinavian Owl	1 Strix Bubo \$\rho\$. S. Bubo atheniensis \$\gamma\$. S. Bubo nudipes \$\rightarrow\$. S. Bubo variegata 2 Strix virginiana 3 Strix scandiaca	255 Little Owl 256 American Little Owl 257 Ruffian Little Owl SHRIKE. iv	 49 Strix passerina β. S. passerina americana γ. S. passerina rossica L A N I U S. I Lanius forficatus
200 201 202 203 204 205	Great Owl Athenian Great Owl Smooth-legged Great Owl Variegated Great Owl Virginian Owl Scandinavian Owl Ceylon Owl	 Strix Bubo β. S. Bubo athenienfis γ. S. Bubo nudipes δ. S. Bubo variegata Strix virginiana Strix fcandiaca Strix zeylonenfis 	255 Little Owl 256 American Little Owl 257 Ruffian Little Owl SHRIKE. iv 258 Drongo Shrike 259 Malabar Shrike	 49 Strix pafferina β. S. pafferina americana γ. S. pafferina roflica J. ANIUS. 1 Lanius forficatus 2 Lanius malabaricus
200 201 202 203 204 205 206	Great Owl Athenian Great Owl Smooth-legged Great Owl Variegated Great Owl Virginian Owl Scandinavian Owl Ceylon Owl Chinefe Owl	 Strix Bubo β. S. Bubo athenienfis γ. S. Bubo nudipes δ. S. Bubo variegata Strix virginiana Strix feandiaca Strix zeylonenfis Strix finenfis 	255 Little Owl 256 American Little Owl 257 Ruffian Little Owl SHRIKE. iv	 49 Strix passerina β. S. passerina americana γ. S. passerina rossica L A N I U S. I Lanius forficatus
200 201 202 203 204 205 206 207	Great Owl Athenian Great Owl Smooth-legged Great Owl Variegated Great Owl Virginian Owl Scandinavian Owl Ceylon Owl Chinefe Owl Coromandel Owl	 Strix Bubo β. S. Bubo athenienfis γ. S. Bubo nudipes S. Bubo variegata Strix virginiana Strix feandiaca Strix zeylonenfis Strix finenfis Strix coromanda 	255 Little Owl 256 American Little Owl 257 Ruffian Little Owl SHRIKE. iv 258 Drongo Shrike 259 Malabar Shrike	 49 Strix pafferina β. S. pafferina americana γ. S. pafferina roflica J. ANIUS. 1 Lanius forficatus 2 Lanius malabaricus
200 201 202 203 204 205 206 207 208	Great Owl Athenian Great Owl Smooth-legged Great Owl Variegated Great Owl Virginian Owl Scandinavian Owl Ceylon Owl Chinefe Owl Coromandel Owl Red Owl	1 Strix Bubo \$\rho\$. S. Bubo atheniensis \$\gamma\$. S. Bubo nudipes \$\rightarrow\$. S. Bubo variegata 2 Strix virginiana 3 Strix scandiaca 4 Strix zeylonensis 5 Strix sinensis 6 Strix coromanda 7 Strix Asio	255 Little Owl 256 American Little Owl 257 Ruffian Little Owl SHRIKE. iv 258 Drongo Shrike 259 Malabar Shrike 260 Fingah Shrike	 49 Strix pafferina β. S. pafferina americana γ. S. pafferina roffica J. LANIUS. 1 Lanius forficatus 2 Lanius malabaricus 3 Lanius cerulefcens 4 Lanius caftaneus
200 201 202 203 204 205 206 207 208 209	Great Owl Athenian Great Owl Smooth-legged Great Owl Variegated Great Owl Virginian Owl Scandinavian Owl Ceylon Owl Chinefe Owl Coromandel Owl Red Owl Mexican Owl	1 Strix Bubo \$\beta\$. S. Bubo atheniensis \$\gamma\$. S. Bubo nudipes 2 Strix virginiana 3 Strix scandiaca 4 Strix zeylonensis 5 Strix sinensis 6 Strix coromanda 7 Strix Asio 8 Strix mexicana	255 Little Owl 256 American Little Owl 257 Ruffian Little Owl SHRIKE. iv 258 Drongo Shrike 259 Malabar Shrike 260 Fingah Shrike 261 Chefnut Shrike 262 Crefted Shrike	 49 Strix passerina β. S. passerina americana γ. S. passerina rossica γ. L A N I U S. 1 Lanius forficatus 2 Lanius malabaricus 3 Lanius cerulescens 4 Lanius castaneus 5 Lanius cristatus
200 201 202 203 204 205 206 207 208 209 210	Great Owl Athenian Great Owl Smooth-legged Great Owl Variegated Great Owl Virginian Owl Scandinavian Owl Ceylon Owl Chinefe Owl Coromandel Owl Red Owl Mexican Owl American Owl	1 Strix Bubo \$\beta\$. S. Bubo atheniensis \$\gamma\$. S. Bubo nudipes 2 Strix virginiana 3 Strix scandiaca 4 Strix zeylonensis 5 Strix sinensis 6 Strix coromanda 7 Strix Asio 8 Strix mexicana 9 Strix americana	255 Little Owl 256 American Little Owl 257 Ruffian Little Owl SHRIKE. iv 258 Drongo Shrike 259 Malabar Shrike 260 Fingah Shrike 261 Chefnut Shrike 262 Crefted Shrike 263 Canadian Shrike	 49 Strix passerina β. S. passerina americana γ. S. passerina rossica γ. L A N I U S. 1 Lanius forficatus 2 Lanius malabaricus 3 Lanius cerulescens 4 Lanius castaneus 5 Lanius cristatus 6 Lanius canadensis
200 201 202 203 204 205 206 207 208 209 210	Great Owl Athenian Great Owl Smooth-legged Great Owl Variegated Great Owl Virginian Owl Scandinavian Owl Ceylon Owl Chinefe Owl Coromandel Owl Red Owl Mexican Owl	1 Strix Bubo \$\beta\$. S. Bubo atheniensis \$\gamma\$. S. Bubo nudipes 2 Strix virginiana 3 Strix scandiaca 4 Strix zeylonensis 5 Strix sinensis 6 Strix coromanda 7 Strix Asio 8 Strix mexicana	255 Little Owl 256 American Little Owl 257 Ruffian Little Owl SHRIKE. iv 258 Drongo Shrike 259 Malabar Shrike 260 Fingah Shrike 261 Chefnut Shrike 262 Crefted Shrike 263 Canadian Shrike 264 Louifiane Shrike	 49 Strix pafferina β. S. pafferina americana γ. S. pafferina roffica γ. L A N I U S. 1 Lanius forficatus 2 Lanius malabaricus 3 Lanius cerulefcens 4 Lanius caftaneus 5 Lanius criftatus 6 Lanius canadenfis 7 Lanius ludovicianus
200 201 202 203 204 205 206 207 208 209 210	Great Owl Athenian Great Owl Smooth-legged Great Owl Variegated Great Owl Virginian Owl Scandinavian Owl Ceylon Owl Chinefe Owl Coromandel Owl Red Owl Mexican Owl American Owl Long-eared Owl	1 Strix Bubo \$\beta\$. S. Bubo atheniensis \$\gamma\$. S. Bubo nudipes 2 Strix virginiana 3 Strix scandiaca 4 Strix zeylonensis 5 Strix sinensis 6 Strix coromanda 7 Strix Asio 8 Strix mexicana 9 Strix americana	255 Little Owl 256 American Little Owl 257 Ruffian Little Owl SHRIKE. iv 258 Drongo Shrike 259 Malabar Shrike 260 Fingah Shrike 261 Chefnut Shrike 262 Crefted Shrike 263 Canadian Shrike 264 Louifiane Shrike 265 Grey Shrike	49 Strix pafferina \$\beta\$. S. pafferina americana \$\pprox\$. S. pafferina roffica T. LANIUS. 1 Lanius forficatus 2 Lanius malabaricus 3 Lanius cerulefcens 4 Lanius caftaneus 5 Lanius criftatus 6 Lanius canadenfis 7 Lanius ludovicianus 8 Lanius Nengeta
200 201 202 203 204 205 206 207 208 209 210 211 212	Great Owl Athenian Great Owl Smooth-legged Great Owl Variegated Great Owl Virginian Owl Scandinavian Owl Ceylon Owl Chinefe Owl Coromandel Owl Red Owl Mexican Owl American Owl Long-eared Owl Italian Long-eared Owl	1 Strix Bubo \$\rho\$. S. Bubo atheniensis \$\gamma\$. S. Bubo nudipes 2 Strix virginiana 3 Strix scandiaca 4 Strix zeylonensis 5 Strix sinensis 6 Strix coromanda 7 Strix Asio 8 Strix mexicana 9 Strix americana 10 Strix Otus \$\rho\$. S. Otus italicus	255 Little Owl 256 American Little Owl 257 Ruffian Little Owl SHRIKE. iv 258 Drongo Shrike 259 Malabar Shrike 260 Fingah Shrike 261 Chefnut Shrike 262 Crefted Shrike 263 Canadian Shrike 264 Louifiane Shrike 265 Grey Shrike 266 Hook-billed Shrike	49 Strix passerina \$\beta\$. S. passerina americana \$\ppropto S\$. passerina rossica LANIUS. Lanius forficatus Lanius malabaricus Lanius cerulescens Lanius castaneus Lanius castaneus Lanius canadensis Lanius ludovicianus Lanius Nengeta Lanius curvirostris
200 201 202 203 204 205 206 207 208 209 210 211 212 213	Great Owl Athenian Great Owl Smooth-legged Great Owl Variegated Great Owl Virginian Owl Scandinavian Owl Ceylon Owl Chinefe Owl Coromandel Owl Red Owl Mexican Owl American Owl Long-eared Owl Italian Long-eared Owl Arétic Long-eared Owl	1 Strix Bubo \$\beta\$. S. Bubo atheniensis \$\gamma\$. S. Bubo nudipes 2 Strix virginiana 3 Strix scandiaca 4 Strix zeylonensis 5 Strix sinensis 6 Strix coromanda 7 Strix Asso 8 Strix mexicana 9 Strix americana 10 Strix Otus \$\beta\$. S. Otus italicus \$\gamma\$. S. Otus arcticus	255 Little Owl 256 American Little Owl 257 Ruffian Little Owl SHRIKE. 258 Drongo Shrike 259 Malabar Shrike 260 Fingah Shrike 261 Chefnut Shrike 262 Crefted Shrike 263 Canadian Shrike 264 Louifiane Shrike 265 Grey Shrike 266 Hook-billed Shrike 267 Collared Shrike	49 Strix passerina \$\beta\$. S. passerina americana \$\ppropto S\$. passerina rossica LANIUS. LANIUS. Lanius forficatus Lanius malabaricus Lanius cerulescens Lanius castaneus Lanius castaneus Lanius caristatus Lanius canadensis Lanius ludovicianus Lanius Nengeta Lanius curvirostris Lanius cellaris
200 201 202 203 204 205 206 207 208 209 210 211 212 213 214	Great Owl Athenian Great Owl Smooth-legged Great Owl Variegated Great Owl Virginian Owl Scandinavian Owl Ceylon Owl Chinefe Owl Coromandel Owl Red Owl Mexican Owl American Owl Long-eared Owl Italian Long-eared Owl Arétic Long-eared Owl Short-eared Owl	1 Strix Bubo \$\beta\$. S. Bubo atheniensis \$\gamma\$. S. Bubo nudipes 2 Strix virginiana 3 Strix scandiaca 4 Strix zeylonensis 5 Strix sinensis 6 Strix coromanda 7 Strix Asso 8 Strix mexicana 9 Strix americana 10 Strix Otus \$\beta\$. S. Otus italicus \$\gamma\$. S. Otus arcticus 11 Strix brachyotos	255 Little Owl 256 American Little Owl 257 Ruffian Little Owl SHRIKE. 258 Drongo Shrike 259 Malabar Shrike 260 Fingah Shrike 261 Chefinut Shrike 262 Crefted Shrike 263 Canadian Shrike 264 Louifiane Shrike 265 Grey Shrike 266 Hook-billed Shrike 267 Collared Shrike 268 Luzonian Shrike	49 Strix passerina \$\beta\$. S. passerina americana \$\ppropto S\$. passerina rossica LANIUS. Lanius forficatus Lanius malabaricus Lanius cerulescens Lanius castaneus Lanius castaneus Lanius canadensis Lanius ludovicianus Lanius Nengeta Lanius curvirostris
200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215	Great Owl Athenian Great Owl Smooth-legged Great Owl Variegated Great Owl Virginian Owl Scandinavian Owl Ceylon Owl Chinefe Owl Coromandel Owl Red Owl Mexican Owl American Owl Long-eared Owl Italian Long-eared Owl Arétic Long-eared Owl Brafilian Owl	1 Strix Bubo \$\beta\$. S. Bubo atheniensis \$\gamma\$. S. Bubo nudipes 2 Strix virginiana 3 Strix scandiaca 4 Strix zeylonensis 5 Strix sinensis 6 Strix coromanda 7 Strix Asso 8 Strix mexicana 9 Strix americana 10 Strix Otus \$\beta\$. S. Otus italicus \$\gamma\$. S. Otus arcticus 11 Strix brachyotos 12 Strix brafiliana	255 Little Owl 256 American Little Owl 257 Ruffian Little Owl SHRIKE. 258 Drongo Shrike 259 Malabar Shrike 260 Fingah Shrike 261 Chefnut Shrike 262 Crefted Shrike 263 Canadian Shrike 264 Louifiane Shrike 265 Grey Shrike 266 Hook-billed Shrike 267 Collared Shrike	49 Strix passerina \$\beta\$. S. passerina americana \$\ppropto S\$. passerina rossica LANIUS. LANIUS. Lanius forficatus Lanius malabaricus Lanius cerulescens Lanius castaneus Lanius castaneus Lanius caristatus Lanius canadensis Lanius ludovicianus Lanius Nengeta Lanius curvirostris Lanius cellaris
200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216	Great Owl Athenian Great Owl Smooth-legged Great Owl Variegated Great Owl Virginian Owl Scandinavian Owl Ceylon Owl Chinefe Owl Coromandel Owl Red Owl Mexican Owl American Owl Long-eared Owl Italian Long-eared Owl Arétic Long-eared Owl Short-eared Owl Brafilian Owl Mottled Owl	1 Strix Bubo \$\beta\$. S. Bubo atheniensis \$\gamma\$. S. Bubo nudipes 2 Strix virginiana 3 Strix sequinensis 5 Strix sequinensis 6 Strix coromanda 7 Strix Asso 8 Strix mexicana 9 Strix americana 10 Strix Otus \$\beta\$. S. Otus italicus \$\gamma\$. S. Otus arcticus 11 Strix brachyotos 12 Strix naevia	255 Little Owl 256 American Little Owl 257 Ruffian Little Owl SHRIKE. 258 Drongo Shrike 259 Malabar Shrike 260 Fingah Shrike 261 Chefnut Shrike 262 Crefted Shrike 263 Canadian Shrike 264 Louifiane Shrike 265 Grey Shrike 266 Hook-billed Shrike 267 Collared Shrike 268 Luzonian Shrike 269 Great Shrike	49 Strix pafferina \$\beta\$. S. pafferina americana \$\ppropto S\$. pafferina roffica LANIUS. LANIUS. Lanius forficatus Lanius malabaricus Lanius cerulefcens Lanius caftaneus Lanius caftaneus Lanius canadenfis Lanius ennadenfis Lanius ludovicianus Lanius Nengeta Lanius Nengeta Lanius curviroftris Lanius collaris Lanius lucionenfis Lanius Lanius Excubitor
200 201 202 203 204 205 207 208 209 210 211 212 213 214 215 216 217	Great Owl Athenian Great Owl Smooth-legged Great Owl Variegated Great Owl Virginian Owl Scandinavian Owl Ceylon Owl Chinefe Owl Coromandel Owl Red Owl Mexican Owl American Owl Long-eared Owl Italian Long-eared Owl Arétic Long-eared Owl Short-eared Owl Brafilian Owl Mottled Owl Indian Owl	1 Strix Bubo \$\beta\$. S. Bubo atheniensis \$\gamma\$. S. Bubo nudipes 2 Strix virginiana 3 Strix sequinensis 5 Strix finensis 6 Strix coromanda 7 Strix Asso 8 Strix mexicana 9 Strix americana 10 Strix Otus \$\beta\$. S. Otus italicus \$\gamma\$. S. Otus arcticus 11 Strix brachyotos 12 Strix brasiliana 13 Strix naevia 14 Strix indica	255 Little Owl 256 American Little Owl 257 Ruffian Little Owl SHRIKE. 258 Drongo Shrike 259 Malabar Shrike 260 Fingah Shrike 261 Chefinut Shrike 262 Crefted Shrike 263 Canadian Shrike 264 Louifiane Shrike 265 Grey Shrike 266 Hook-billed Shrike 267 Collared Shrike 268 Luzonian Shrike 269 Great Shrike 270 White Great Shrike	49 Strix pafferina \$\beta\$. S. pafferina americana \$\gamma\$. S. pafferina roffica T. ANIUS. 1 Lanius forficatus 2 Lanius malabaricus 3 Lanius cerulefcens 4 Lanius caftaneus 5 Lanius caftaneus 6 Lanius canadenfis 7 Lanius ludovicianus 8 Lanius Nengeta 9 Lanius Nengeta 9 Lanius curviroftris 10 Lanius cellaris 11 Lanius lucionenfis 12 Lanius Excubitor \$\beta\$. L. Excubitor albus
200 201 202 203 204 205 207 208 209 210 211 212 213 214 215 216 217	Great Owl Athenian Great Owl Smooth-legged Great Owl Variegated Great Owl Virginian Owl Scandinavian Owl Ceylon Owl Chinefe Owl Coromandel Owl Red Owl Mexican Owl American Owl Long-eared Owl Italian Long-eared Owl Arétic Long-eared Owl Short-eared Owl Brafilian Owl Mottled Owl	1 Strix Bubo \$\beta\$. S. Bubo atheniensis \$\gamma\$. S. Bubo nudipes 2 Strix virginiana 3 Strix sequinensis 5 Strix sequinensis 6 Strix coromanda 7 Strix Asso 8 Strix mexicana 9 Strix americana 10 Strix Otus \$\beta\$. S. Otus italicus \$\gamma\$. S. Otus arcticus 11 Strix brachyotos 12 Strix naevia	255 Little Owl 256 American Little Owl 257 Ruffian Little Owl 257 Ruffian Little Owl SHRIKE. 258 Drongo Shrike 259 Malabar Shrike 260 Fingah Shrike 261 Chefinut Shrike 262 Crefted Shrike 263 Canadian Shrike 264 Louifiane Shrike 265 Grey Shrike 266 Hook-billed Shrike 267 Collared Shrike 268 Luzonian Shrike 269 Great Shrike 270 White Great Shrike 271 Larger Great Shrike	49 Strix pafferina \$\beta\$. S. pafferina americana \$\gamma\$. S. pafferina roffica T. LANIUS. 1 Lanius forficatus 2 Lanius malabaricus 3 Lanius cerulefcens 4 Lanius caftaneus 5 Lanius criftatus 6 Lanius canadenfis 7 Lanius ludovicianus 8 Lanius Nengeta 9 Lanius Nengeta 9 Lanius curviroftris 10 Lanius collaris 11 Lanius lucionenfis 12 Lanius Excubitor \$\beta\$. L. Excubitor albus \$\gamma\$. L. Excubitor major
200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218	Great Owl Athenian Great Owl Smooth-legged Great Owl Variegated Great Owl Virginian Owl Scandinavian Owl Ceylon Owl Chinefe Owl Coromandel Owl Red Owl Mexican Owl American Owl Long-eared Owl Italian Long-eared Owl Arétic Long-eared Owl Short-eared Owl Brafilian Owl Mottled Owl Indian Owl	1 Strix Bubo \$\beta\$. S. Bubo atheniensis \$\gamma\$. S. Bubo nudipes 2 Strix virginiana 3 Strix sequinensis 5 Strix finensis 6 Strix coromanda 7 Strix Asso 8 Strix mexicana 9 Strix americana 10 Strix Otus \$\beta\$. S. Otus italicus \$\gamma\$. S. Otus arcticus 11 Strix brachyotos 12 Strix brasiliana 13 Strix naevia 14 Strix indica	255 Little Owl 256 American Little Owl 257 Ruffian Little Owl 257 Ruffian Little Owl SHRIKE. 258 Drongo Shrike 259 Malabar Shrike 260 Fingah Shrike 261 Chefinut Shrike 262 Crefted Shrike 263 Canadian Shrike 264 Louifiane Shrike 265 Grey Shrike 266 Hook-billed Shrike 267 Collared Shrike 268 Luzonian Shrike 269 Great Shrike 270 White Great Shrike 271 Larger Great Shrike 272 Butcher Shrike	49 Strix pafferina \$\beta\$. S. pafferina americana \$\gamma\$. S. pafferina roffica 7. LANIUS. 1 Lanius forficatus 2 Lanius malabaricus 3 Lanius cerulefcens 4 Lanius caftaneus 5 Lanius criftatus 6 Lanius canadenfis 7 Lanius ludovicianus 8 Lanius Nengeta 9 Lanius Nengeta 9 Lanius curviroftris 10 Lanius collaris 11 Lanius lucionenfis 12 Lanius Excubitor \$\beta\$. L. Excubitor major 13 Lanius Collurio
200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219	Great Owl Athenian Great Owl Smooth-legged Great Owl Variegated Great Owl Virginian Owl Scandinavian Owl Ceylon Owl Chinefe Owl Coromandel Owl Red Owl Mexican Owl American Owl Long-eared Owl Italian Long-eared Owl Arétic Long-eared Owl Short-eared Owl Brafilian Owl Mottled Owl Indian Owl Sardinian Owl	1 Strix Bubo \$\beta\$. S. Bubo atheniensis \$\gamma\$. S. Bubo nudipes 2 Strix virginiana 3 Strix sequinensis 5 Strix sequinensis 6 Strix coromanda 7 Strix Asso 8 Strix mexicana 9 Strix americana 10 Strix Otus \$\beta\$. S. Otus italicus \$\gamma\$. S. Otus arcticus 11 Strix brachyotos 12 Strix brasiliana 13 Strix naevia 14 Strix indica 15 Strix Zorca 16 Strix carniolica	255 Little Owl 256 American Little Owl 257 Ruffian Little Owl 257 Ruffian Little Owl SHRIKE. iv 258 Drongo Shrike 259 Malabar Shrike 260 Fingah Shrike 261 Chefinut Shrike 262 Crefted Shrike 263 Canadian Shrike 264 Louifiane Shrike 265 Grey Shrike 266 Hook-billed Shrike 267 Collared Shrike 268 Luzonian Shrike 269 Great Shrike 270 White Great Shrike 271 Larger Great Shrike 272 Butcher Shrike 273 Variegated Butcher	49 Strix pafferina \$\beta\$. S. pafferina americana \$\gamma\$. S. pafferina roffica T. LANIUS. 1 Lanius forficatus 2 Lanius malabaricus 3 Lanius cerulefcens 4 Lanius caftaneus 5 Lanius criftatus 6 Lanius canadenfis 7 Lanius ludovicianus 8 Lanius Nengeta 9 Lanius Nengeta 9 Lanius curviroftris 10 Lanius collaris 11 Lanius lucionenfis 12 Lanius Excubitor \$\beta\$. L. Excubitor albus \$\gamma\$. L. Excubitor major
200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220	Great Owl Athenian Great Owl Smooth-legged Great Owl Variegated Great Owl Virginian Owl Scandinavian Owl Ceylon Owl Chinefe Owl Coromandel Owl Red Owl Mexican Owl American Owl Long-eared Owl Italian Long-eared Owl Arétic Long-eared Owl Short-eared Owl Brafilian Owl Mottled Owl Indian Owl Sardinian Owl Carniolic Owl Yaik Owl	1 Strix Bubo \$\beta\$. S. Bubo atheniensis \$\gamma\$. S. Bubo nudipes 2 Strix virginiana 3 Strix sequinensis 5 Strix sequinensis 6 Strix coromanda 7 Strix Asso 8 Strix mexicana 9 Strix americana 10 Strix Otus \$\beta\$. S. Otus italicus \$\gamma\$. S. Otus arcticus 11 Strix brachyotos 12 Strix brasiliana 13 Strix naevia 14 Strix indica 15 Strix Zorca 16 Strix carniolica 17 Strix deminuta	255 Little Owl 256 American Little Owl 257 Ruffian Little Owl SHRIKE. 258 Drongo Shrike 259 Malabar Shrike 260 Fingah Shrike 261 Chefinut Shrike 262 Crefted Shrike 263 Canadian Shrike 264 Louifiane Shrike 265 Grey Shrike 266 Hook-billed Shrike 267 Collared Shrike 268 Luzonian Shrike 269 Great Shrike 270 White Great Shrike 271 Larger Great Shrike 272 Butcher Shrike 273 Variegated Butcher Shrike	49 Strix pafferina \$\beta\$. S. pafferina americana \$\gamma\$. S. pafferina roffica 1. LANIUS. 1 Lanius forficatus 2 Lanius malabaricus 3 Lanius cerulefcens 4 Lanius caftaneus 5 Lanius criftatus 6 Lanius canadenfis 7 Lanius ludovicianus 8 Lanius Nengeta 9 Lanius Nengeta 9 Lanius curviroftris 10 Lanius collaris 11 Lanius lucionenfis 12 Lanius Excubitor \$\beta\$. L. Excubitor albus \$\gamma\$. L. Excubitor major 13 Lanius Collurio \$\beta\$. L. Collurio varius
200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221	Great Owl Athenian Great Owl Smooth-legged Great Owl Variegated Great Owl Virginian Owl Scandinavian Owl Ceylon Owl Chinefe Owl Coromandel Owl Red Owl Mexican Owl American Owl Long-eared Owl Italian Long-eared Owl Arétic Long-eared Owl Brafilian Owl Mottled Owl Indian Owl Sardinian Owl Carniolic Owl Yalk Owl Siberian Owl	1 Strix Bubo \$\beta\$. S. Bubo atheniensis \$\gamma\$. S. Bubo nudipes 2 Strix virginiana 3 Strix sequinensis 5 Strix sequinensis 6 Strix coromanda 7 Strix Asso 8 Strix mexicana 9 Strix americana 10 Strix Otus \$\beta\$. S. Otus italicus \$\gamma\$. S. Otus arcticus 11 Strix brachyotos 12 Strix brasiliana 13 Strix naevia 14 Strix indica 15 Strix Zorca 16 Strix carniolica 17 Strix deminuta 18 Strix pulchella	255 Little Owl 256 American Little Owl 257 Ruffian Little Owl 257 Ruffian Little Owl S H R I K E. iv 258 Drongo Shrike 259 Malabar Shrike 260 Fingah Shrike 261 Chefinut Shrike 262 Crefted Shrike 263 Canadian Shrike 264 Louifiane Shrike 265 Grey Shrike 266 Hook-billed Shrike 267 Collared Shrike 268 Luzonian Shrike 269 Great Shrike 269 Great Shrike 270 White Great Shrike 271 Larger Great Shrike 272 Butcher Shrike 273 Variegated Butcher Shrike 274 Red Butcher Shrike	49 Strix pafferina \$\beta\$. S. pafferina americana \$\gamma\$. S. pafferina roffica L. A. N. I.U.S. L. Lanius forficatus Lanius malabaricus Lanius cerulefcens Lanius caftaneus Lanius caftaneus Lanius canadenfis Lanius ludovicianus Lanius Nengeta Lanius Nengeta Lanius Collaris Lanius Lucionenfis Lanius Excubitor Lanius Excubitor Lanius Excubitor Lanius Collurio Lanius Collurio varius
200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221	Great Owl Athenian Great Owl Smooth-legged Great Owl Variegated Great Owl Virginian Owl Scandinavian Owl Ceylon Owl Chinefe Owl Coromandel Owl Red Owl Mexican Owl American Owl Long-eared Owl Italian Long-eared Owl Arétic Long-eared Owl Short-eared Owl Brafilian Owl Mottled Owl Indian Owl Sardinian Owl Carniolic Owl Yaik Owl	1 Strix Bubo \$\beta\$. S. Bubo atheniensis \$\gamma\$. S. Bubo nudipes 2 Strix virginiana 3 Strix sequinensis 5 Strix sequinensis 6 Strix coromanda 7 Strix Asso 8 Strix mexicana 9 Strix americana 10 Strix Otus \$\beta\$. S. Otus italicus \$\gamma\$. S. Otus arcticus 11 Strix brachyotos 12 Strix brasiliana 13 Strix naevia 14 Strix indica 15 Strix Zorca 16 Strix carniolica 17 Strix deminuta	255 Little Owl 256 American Little Owl 257 Ruffian Little Owl 257 Ruffian Little Owl S H R I K E. iv 258 Drongo Shrike 259 Malabar Shrike 260 Fingah Shrike 261 Chefinut Shrike 262 Crefted Shrike 263 Canadian Shrike 264 Louifiane Shrike 265 Grey Shrike 266 Hook-billed Shrike 267 Collared Shrike 268 Luzonian Shrike 269 Great Shrike 269 Great Shrike 270 White Great Shrike 271 Larger Great Shrike 272 Butcher Shrike 273 Variegated Butcher Shrike 274 Red Butcher Shrike	49 Strix pafferina \$\beta\$. S. pafferina americana \$\gamma\$. S. pafferina roffica L. A. N. I.U.S. L. Lanius forficatus Lanius malabaricus Lanius cerulefcens Lanius caftaneus Lanius caftaneus Lanius canadenfis Lanius ludovicianus Lanius Nengeta Lanius Nengeta Lanius Collaris Lanius Lucionenfis Lanius Excubitor Lanius Excubitor Lanius Excubitor Lanius Collurio Lanius Collurio varius
200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221	Great Owl Athenian Great Owl Smooth-legged Great Owl Variegated Great Owl Virginian Owl Scandinavian Owl Ceylon Owl Chinefe Owl Coromandel Owl Red Owl Mexican Owl American Owl Long-eared Owl Italian Long-eared Owl Arétic Long-eared Owl Brafilian Owl Mottled Owl Indian Owl Sardinian Owl Carniolic Owl Yaik Owl Siberian Owl Scops Owl	1 Strix Bubo \$\beta\$. S. Bubo atheniensis \$\gamma\$. S. Bubo nudipes 2 Strix virginiana 3 Strix sequentis 5 Strix sequentis 5 Strix sequentis 6 Strix coromanda 7 Strix Asso 8 Strix mexicana 9 Strix americana 10 Strix Otus \$\beta\$. S. Otus italicus \$\gamma\$. S. Otus arcticus 11 Strix brachyotos 12 Strix brasiliana 13 Strix naevia 14 Strix indica 15 Strix Zorca 16 Strix carniolica 17 Strix deminuta 18 Strix pulchella 19 Strix Scops	255 Little Owl 256 American Little Owl 257 Ruffian Little Owl 257 Ruffian Little Owl S H R I K E. iv 258 Drongo Shrike 259 Malabar Shrike 260 Fingah Shrike 261 Chefinut Shrike 262 Crefted Shrike 263 Canadian Shrike 264 Louifiane Shrike 265 Grey Shrike 266 Hook-billed Shrike 267 Collared Shrike 269 Great Shrike 269 Great Shrike 270 White Great Shrike 271 Larger Great Shrike 272 Butcher Shrike 273 Variegated Butcher Shrike 274 Red Butcher Shrike 275 Senegal Butcher Shrike	49 Strix pafferina \$\beta\$. S. pafferina americana \$\gamma\$. S. pafferina roffica L. A. N. I.U. S. L. Lanius forficatus Lanius malabaricus Lanius cerulefcens Lanius caftaneus Lanius caftaneus Lanius canadenfis Lanius ludovicianus Lanius Nengeta Lanius Nengeta Lanius curviroftris Lanius cultaris Lanius collaris Lanius Excubitor Lanius Excubitor Lanius Excubitor Lanius Collurio Lanius Collurio Lanius Collurio Lanius Collurio Lanius Collurio Lanius Collurio rufus L. Collurio fenegalenfis.
200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221	Great Owl Athenian Great Owl Smooth-legged Great Owl Variegated Great Owl Virginian Owl Scandinavian Owl Ceylon Owl Chinefe Owl Coromandel Owl Red Owl Mexican Owl American Owl Long-eared Owl Italian Long-eared Owl Arétic Long-eared Owl Brafilian Owl Mottled Owl Indian Owl Sardinian Owl Carniolic Owl Yalk Owl Siberian Owl	1 Strix Bubo \$\beta\$. S. Bubo atheniensis \$\gamma\$. S. Bubo nudipes 2 Strix virginiana 3 Strix sequentis 5 Strix sequentis 5 Strix sequentis 6 Strix coromanda 7 Strix Asso 8 Strix mexicana 9 Strix americana 10 Strix Otus \$\beta\$. S. Otus italicus \$\gamma\$. S. Otus arcticus 11 Strix brachyotos 12 Strix brasiliana 13 Strix naevia 14 Strix indica 15 Strix Zorca 16 Strix carniolica 17 Strix deminuta 18 Strix pulchella 19 Strix Scops	255 Little Owl 256 American Little Owl 257 Ruffian Little Owl 257 Ruffian Little Owl S H R I K E. iv 258 Drongo Shrike 259 Malabar Shrike 260 Fingah Shrike 261 Chefinut Shrike 262 Crefted Shrike 263 Canadian Shrike 264 Louifiane Shrike 265 Grey Shrike 266 Hook-billed Shrike 267 Collared Shrike 268 Luzonian Shrike 269 Great Shrike 269 Great Shrike 270 White Great Shrike 271 Larger Great Shrike 272 Butcher Shrike 273 Variegated Butcher Shrike 274 Red Butcher Shrike	49 Strix pafferina \$\beta\$. S. pafferina americana \$\gamma\$. S. pafferina roffica L. A. N. I.U.S. L. Lanius forficatus Lanius malabaricus Lanius cerulefcens Lanius caftaneus Lanius caftaneus Lanius canadenfis Lanius ludovicianus Lanius Nengeta Lanius Nengeta Lanius Collaris Lanius Lucionenfis Lanius Excubitor Lanius Excubitor Lanius Excubitor Lanius Collurio Lanius Collurio varius

277 Antiguan Shrike 278 Black Shrike

279 Lever's Shrike

280 Surinam Shrike

14 Lanius antiguanus

16 Lanius Leverianus

17 Lanius atricapillus

15 Lanius niger

132	C A T A L
281 Pomeranian Shrike	18 Lanius pomeranus
282 Tyrant Shrike	19 Lanius Tyrannus
283 Domingo Tyrant Shrike	β. L. Tyrannus domini-
284 Carolina Tyrant Shrike	cenfis v. L. Tyrannus carolinen-
285 Louisiana Tyrant Shrike	5. L. Tyrannus ludovi- cianus
286 Chinefe Shrike	20 Lanius Schach
287 Brafilian Shrike	21 Lanius Pitangua
288 Rufous Shrike	22 Lanius-rufus
289 Barbary Shrike	23 Lanius barbarus
290 Yellow-bellied Shrike	24 Lanius fulphuratus
291 Cayenne Shrike	25 Lanius cayanus
292 Spotted Cayenne Shrike	β. L. cayanus naevius
293 Leffer Cayenne Shrike	γ. L. cayanus minor
294 Orange Shrike	26 Lanius aurantius
295 Senegal Shrike	27 Lanius fenegalus
296 Madagafcar Shrike	28 Lanius madagafcarienfis
297 Bengal Shrike	29 Lanius Emeria
298 Blue Shrike	30 Lanius bicolor
299 Manilla Shrike	31 Lanius leucorynchos
300 Rufty Shrike	32 Lanius ferrugineus
301 Tabuan Shrike	33 Lanius tabuensis
302 Pacific Shrike	34 Lanius pacificus
303 Northern Shrike	35 Lanius septentrionalis
304 Black-capped Shrike	36 Lanius pileatus
305 Green Shrike	37 Lanius viridis
306 White-headed Shrike	38 Lanius leucocephalus
307 Dominican Shrike	39 Lanius dominicanus
308 Panay Shrike	40 Lanius panayenfis
309 White Shrike 310 Variegated Shrike	41 Lanius albus
311 Spotted Shrike	42 Lanius varius
311 Spotted Shrike 312 Dusky Shrike	43 Lanius naevius 44 Lanius obfcurus
313 Brown Shrike	45 Lanius fuscus
314 Red Shrike	46 Lanius ruber
315 American Shrike	47 Lanius americanus
316 Lesser Shrike	48 Lanius minor
317 Nootka Shrike	49 Lanius Nootka
318 Boolboul Shrike	50 Lanius Boulboul
319 Black-headed Shrike	51 Lanius melanocephalus
320 Short-tailed Shrike	52 Lanius brachyurus
321 Red-tailed Shrike	53 Lanius phoenicurus
322 Pied Shrike	54 Lanius doliatus
323 Jocofe Shrike	55 Lanius jocofus
324 Rock Shrike	56 Lanius infaustus
325 Leffer Rock Shrike	β. L. infaustus minor
326 Wreathed Shrike	57 Lanius faustus
II. P	I E S.

PARROT. PSITTACUS.

* With long wedge-like tails.

328 Aracanga 329 Military Maccaw 330 Ararauna 331 Blue Ararauna

327 Ara

1 Pfittacus Macao 2 Pfittacus Aracanga 3 Psittacus militaris

4 Pfittacus Ararauna β. Pf. Ararauna caeruleus 332 Hyacinthine Maccaw 333 Makawuana 334 Black Maccaw 335 Obscure Parrot 336 Noble Parrot 337 Maracana 338 Duíky Maracana 339 Gingee Parrot 340 Japonese Parrot 341 Amboina Parrot 342 Blue-headed Parrot 343 Red-breafted Parrot 344 Molucca Red-breafted Parrot 345 Southern Red-breafted Parrot 346 Davies Red-breafted Parrot 347 Black-crowned Parrot 348 Tabuan Parrot 349 Scarlet Tabuan Parrot 350 Papuan Parrot 351 Purple-breafted Papuan Parrot 352 Black-backed Papuan Parrot 353 Green-bellied Papuan Parrot 354 Borneo Parrot 355 Indian Parrot 356 Beautiful Parrot 357 Green Beautiful Parrot 358 Gueby Parrot 359 Violet Parrot 360 Variegated Parrot 361 Pennantian Parrot 362 Phillips Pennantian Par-

363 Splendid Parrot 364 New-guinea Parrot

365 Javan Parrot 366 Jandaya 367 Angola Parrot

368 Guarouba

369 Mexican Guarouba

370 Carolina Parrot

371 Alexandrine Parrot 372 Rofe-ringed Alexandrine Parrot 373 Purple-ringed Alexan-

drine Parrot 374 Double-ringed Alexan-

drine Parrot 375 Blue-headed Alexandrine Parrot

376 Javan Alexandrine Par.

377 Illinois Parrot 378 Leverian Parrot 5 Pfittacus hyacinthinus

6 Pfittacus Makawuana

7 Pfittacus ater 8 Pfittacus obscurus

9 Pfittacus nobilis to Pfittacus feverus

β. P. feverus erythrochlorus

11 Pfittacus Eupatria 12 Pfittacus japonicus

13 Psittacus amboinensis 14 Pfittacus cyanocephalus

15 Pfittacus haematotus

β. Pf. haematotus molucy. Pf. haematotus novae-

hollandiae 8. Pf. haematotus daviesi-

16 Psittacus atricapillus 17 Pfittacus tabuenfis

β. Pf. tabuenfis coccineus

18 Pfittacus papuenfis β. Pf. papuenfis porphu-

> rostethos 7. Pf. papuenfis melanonotos

> 5. Pf. papuenfis chlorogaster

19 Pfittacus borneus

20 Pfittacus indicus

21 Pfittacus elegans

β. Pf. elegans viridis

22 Pfittacus guebiensis 23 Pfittacus janthinus

24 Pfittacus variegatus

25 Psittacus Pennantii

β. Pf. Pennantii Phillipi

26 Pfittacus gloriofus

27 Pfittacus novae-guineae

28 Pfittacus javanicus 29 Pfittacus Jandaya

30 Pfittacus folfticialis

31 Pfittacus Guaroubā

β. Pf. Guarouba mexica-

32 Pfittacus carolinenfis

33 Pfittacus Alexandri

β. Pf. Alexandri rofeocollari

y. Pf. Alexandri purpureocollari

5. Pf. Alexandri duplocol-

e. Pf. Alexandri cyanoce-

phalus ζ. Pf. Alexandri javanicus

34 Pfittacus pertinax 35 Pfittacus Leverianus

ī

I. RAPACIOUS BIRDS.

The upper mandible has an angular projection, or is dilated a little at each fide, near the point.

I. VULTURE.-I. VULTUR. 41.

The bill is ffraight, and hooked at the end, having the base

It was found impossible to complete the Systematic Catalogue of Birds, without great risk of inaccuracy, until the whole of the class is printed off; in the mean time allowance is made, in the fignatures and folios, for the insertion of the remainder of the Catalogue: This information was thought necessary to account for the apparent hiatus, and to direct the Bookbinder, for the present, that p. 432, being the last of Sheet Hhh, is to be followed by p. 469, being the first of Sheet Ooo: The sheets omitted [viz. Iii, Kkk, Lll, Mmm, Nnn] will be delivered along with the last part of the Class of Birds, and must then be inserted in their proper place:

(To be inferted between page 432 and page 469 of Vol. i. Part ii.)

Afia, nor, except one species, the Carrion Vulture, do they ever inhabit the north of America. The species and varieties of this genus are distinguished from each other with great difficulty, and even the genus itself is by no means very easily separated from that which immediately follows. In this genus, besides the circumstances already noticed in the character, the legs and seet are mostly covered with large scales; the first joint of the middle toe is generally connected to that of the outer toe by a strong membrane; the craw, or crop, often hangs over the breast, especially when gorged with food; and the insides of the wings are lined with down.

1. Condour .- 1. Vultur Gryphus. 1.

Of vast fize, having a longitudinal warty excressence on the crown of the head, and a naked throat.

V. Gryphus. Lath.ind. orn. i. 1. n. 1.—V. Gryps, Gryphus. Klein, av. 45. n. 8. Briff. av. i. 473. n. 12. Borowtk. nat. ii. 62. n. 2.—Cuntur. Laet. amer. 401. Raj. fyn. 11. n. 9.—Condor. Frez. Vól. I.

it. 111. Condam. it. 175. Buff. oif. i. 184. Molin. chil. 236.—Condur. Lath. fyn. i. 4. Id. fup. 1. Hawkefw. voy. i. 15.

470

2

Inhabits South America.—This bird is of enormous fize, the wings measuring, when extended, nine, twelve, or even fixteen feet, from tip to tip; the largest quill-feathers of the wings, sometimes measure two feet and a half long, and the quill part an inch and a half in circumference. The body is of a black colour, with a white back; the neck is surrounded with a collar of longish white feathers; the chin is reddish; the head is clothed with brown down or wool; the eyes are black, with chesnut, or light reddish irides; the bill is black, with a whitish point; the legs and feet are black, and the claws are straightish; the tail is small. The female is considerably larger than the male, which it resembles, except in having a brown crest or tust on the scrag, or hinder part of the neck.

The Condour builds its neft on the steepest mountains, under the shelter of some projecting shelf of a rock, in which the semale lays two white eggs. It preys on calves, sheep, goats, and such like animals, and, when very much pressed by hunger, has been known to carry off children of ten years of age; nay two of them are said to be able to destroy and eat up the carcass of a cow at one meal. When alighting on, or rising from, the ground, it makes such a noise with the wings, as to terrify and almost deasen any one who happens to be near the place.

2. White-headed Vulture. - 9. Vultur leucocephalus. 10.

Of a white colour, with black wing and tail quills, and having a collar of white feathers round the neck.

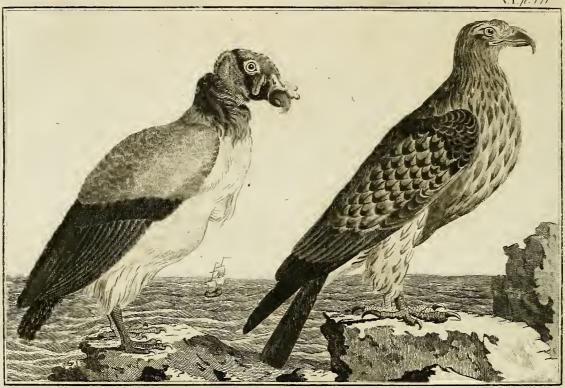
V. leucocephalus. Briff. av. i. 446. n. 9.—V. albus. Raj. fyn. 10. n. 6. Will. orn. 35. n. 6. Id. angl. 67.—V. albicans. Klein, av. 44. n. 5. Id. ov. av. 18. t. 5. f. 3.—V. percnopterus. Haffelqu. it. 209. It. pofegan. 27. Faun. aragon. 67. n. 1.—V. aquilinus cinereus. Gerin. orn. i. 47. t. 14.—Petit Vautour. Buff. oif. i. 164.—Vautour de Norvege. Pl. enl. 429.—Avoltoio bianco. Cett. uc. fard. 12.—Vultur albicans, Vautour de Norvege, Alimoche. Bom. dict. hift. nat. in voc.

Inhabits Sardinia, Aragon, and other parts of the fouth of Europe, likewife the northern parts of Africa, and the Levant, and has also been found in Norway.—This species is some inches more than three feet long; the tail and wings are of a moderate fize; the head and upper parts of the neck are clothed with white down; the claws are black; the middle toe is covered with eleven distinct scales.

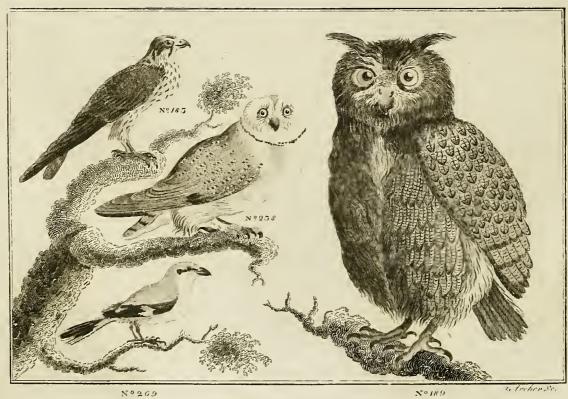
There is a confiderable discrepancy between the descriptions of this species as given by Dr Gmelin, Mr Latham, and other naturalists; Mr Latham describes it as 'of a sooty ash-colour with rede'dish spots, having the head, neck, and base of the tail white,' and says, that it inhabits Asia, Africa, and the south of Europe; for which reason I have referred his description to a separate variety. According to Mr Bomare, the general colour is a dirty white, somewhat mixed with brown, having the primary wing quill-seathers black, and the rest of a brownish black or soot colour, the head, neck, and maw being sassing fastion coloured; he adds, that the legs are slender, and longer than those of most Vultures, with naked ash-coloured seet, and says that the animal is sive feet in extent, and only two seet three inches long. Dr Gmelin is uncertain whether the species he describes may not be a variety of the V. Percnopterus, or rather of the V. fulvus. Amid such uncertainty in the descriptions of so many celebrated naturalists, all that has been here attempted is to give a clear view of their several opinions, without endeavouring to decide: The two following varieties are barely noticed by Dr Gmelin, while the next two are given on the authority of Mr Latham.—T.



V.1./2-171



N 9 3 9 N: 7



3

4

5

6

7

B. Norwegian White-headed Vulture. -V. leucocephalus norvegicus.

Is almost entirely of a snowy whiteness; the head and neck being naked and reddish; having a yellow bill, with a remarkable black spot. Syst. nat. ed. Gmel. i. 248. n. 10.

y. Sardinian White-headed Vulture .- V. leucocephalus fardicus.

Of mixed ash, brown, and greyish plumage, with black wing and tail quill-feathers. Syst. nat. ed. Gmel. i. 248. n. 10.

S. Sooty White-headed Vulture. -V. leucocephalus fuliginosus.

The body is of a footy colour, with reddish spots; the head, neck, and root of the tail, being white. Lath. ind. orn. i. 2. n. 4.

This variety is found in Afia, Africa, and the fouth of Europe.—From the remarkable difference between the fnowy whiteness of the species, or variety, described by Dr Gmelin, which stands at the head of this article, and the sooty colour of this variety as described by Mr Latham, it appeared requisite to separate them at least into two varieties. This Sooty variety is probably the Vultur perconopterus of the Fauna aragonensis; it is two feet and a half long, and builds its nest in lofty rocks; the bill is black; the front and chin are naked, and covered with a yellowish wrinkly skin; the external margins of the wing quill-feathers are white or hoary, except those of the two outer primaries.

s. Bengal White-headed Vulture.-V. leucocephalus bengalensis.

Of a dusky brown or blackish colour, the head and fore part of the neck being naked, and of a pale chesnut colour, and the shafts of the feathers on the lower parts of the body being white.

V. percnopterus femina. Haffelq. it. 209. Id. ed. angl. 194.—Bengal Vulture. Lath. fyn. i. 19. t. 1. Id. fup. 3.—V. leucocephalus, femina. Lath. orn. i. 3. n. 4. \(\rho.\)—V. bengalenfis. Syst. nat. ed. Gm. i. 245. n. 2.

Inhabits Asia, Africa, and the south of Europe, being sound as far as Bengal.—This animal is two and a half seet long; the head and naked part of the neck are covered with brown wool or down; the legs and seet are of a blackish brown colour, with black claws; the bill is of a leaden colour, with a white point; the craw hangs over the breast. The eggs are of a dirtyish appearance.

This variety is confidered as a diffinct fpecies of the genus by Dr Gmelin; and Mr Latham was formerly of that opinion. In his last publication, however, it is supposed to be only the female of the Sooty variety immediately preceding. Without pretending to decide the difference it is placed here as a variety.—T.

3. King Vulture. - 3. Vultur Papa. 3.

Of a reddish white colour; the head and neck are naked, and the nostrils are surrounded with dentated sleshy warts, or tubercles.

V. Papa. Lath. ind. orn. i. n. 7.—Vultur. Albin. av. ii. 4. t. 4.—V. monachus. Klein, av. 46. n. 9.—V. elegans. Ger. orn. 302.—Rex vulturum. Briff. i. 470. n. 11. t. 36.—Roi des vautours.

O o o 2

Buff.

472 BIRDS. RAPACIOUS. Vulture.

Buff. oif. i. 169. t. 6. Pl. enl. 428.—Regina aurarum. Will. orn. 302.—Queen of the aurae. Will. ed. ang. 390.—King of the Vultures. Edw. av. ii. t. 2. Lath. fyn. i. 7.

Inhabits the hotter parts of America, and the West India Isles.—This species is about the fize of a hen Turkey: The head and upper part of the neck are naked, and seem raw or excoriated; the space round the eyes is naked, and of a fasfron yellow colour; a fillet of blackish woolly down surrounds the head, from the hind head forwards; the quill-feathers are black, verging to ash colour; the feet and point of the bill are red; the cere is orange coloured. This animal slies very high; it preys on ferpents, lizards, rats, and such animals; and likewise devours putrid carcasses, from which it acquires a very disagreeable setor.

4. Arabian Vulture.-4. Vultur Monachus. 4.

Of a black colour, with a protuberant hind head.

8

9

V. Monachus. Lath. ind. orn. i. 5. n. 9.—V. arabicus. Briff. orn. vi. ap. 29. Id. 8vo. 138. n. 14.—Crefted black Vulture. Edw. av. t. 290.—Arabian Vulture. Lath. fyn. i. 8.

Inhabits Arabia.—This fpecies of Vulture is larger than the Black Eagle; the head and neck are covered with afh coloured woolly down; the fpace round the eyes is white; the bill, having a black point, with the cere, and the feet, are bluish; the claws are black; the head is furmounted with a confiderable protuberance behind; the shoulders are furnished with an elevated ridge of loose ash coloured feathers, into which the head is retracted when the animal sleeps.

5. Carrion Vulture.—5. Vultur Aura. 5.

Of a dusky black, or brown grey-colour, dashed with green and purple; having black quill-feathers, and a white bill.

V. Aura. Lath. ind. orn. i. 4. n. 8.—V. brafilienfis. Raj. av. i. 468. Ger. orn. i. 45. t. 13.—Vautour de Brefil. Buff. oif. i. 175. Pl. enl. 187.—Gallinazo. Ulloa, voy. ed. angl. 56. 196.—Carrion Vulture. Sloan. jam. ii. 294. t. 254. Brown, jam. 471. Damp. voy. ii. 67. Penn. arct. zool. ii. 191. n. 86. Lath. fyn. i. 9. Id. fup. 2.—Turkey Buzzard. Catefb. car. i. t. 6. Clayton, in phil. tranf. xvii. 991.—Urubu, Tzopilotl, Aura. Will. orn. 36. n. 2. Id. angl. 68. t. 3. Hernand. mex. 331.—Strunt-Vogel? Kolb. cap. ii. 136.—Corvus fylvaticus. Barrere, fr. equ. 129.—Carrion Crow. Sloan, jam. ii. 294.

Inhabits America, from Nova Scotia to Terra del Fuego; and is found in New-years islands.—
This species is about the same size with the last, weighing about four pounds and a half, though it varies in fize: The body is black, with an iridescence of purplish and green; the irides are mixed fastron yellow, and bluish; the head is small, and is covered with a naked wrinkly reddish skin, befet with black bristles; the nostrils are very large and pervious; the legs and seet are dirty sless colour, with black claws. The Carrion Vulture is in a manner privileged in America, in consequence of its usefulness for destroying scrpents, carrion, and the eggs of Alligators, and is often seen devouring the dead carcasses of animals along with dogs, preserving the utmost harmony with each other; it has a most offensively setid odour, and, when seized, it vomits up a quantity of most intolerably stinking stuff. It is by no means shy, from being seldom disturbed, and may be easily tamed; it sleeps in slocks at night, in the highest trees, or the summits of rocks, keeping the wings dishevelled,

10

11

12

33

as if to fweeten them from the putrid odour of their daily banquet. When pressed with hunger it will fometimes attack living animals, especially such beasts as have any sore upon them.

β. Black Carrion Vulture .- 5. β. V. Aura niger.

Of a black colour, with brown wings, and an ash coloured bill. Molin. hist. nat. Chil. 235. Id. ed. gal. 245.

Vultur Jota. Lath. ind. orn. i. 4. n. 8. s. Syst. nat. ed. Gm. i. 247. n. 5. s.

RAPACIOUS.

Inhabits Chili.—This variety is equally offensive in its odour with the former; it is extremely lazy, unless when teazed, and then emits a cry like that of a Mouse, but stronger; it builds among rocks or on the ground, constructing a nest of leaves and feathers, in which the female lays, for one brood, two whitish eggs looking as if fullied with smoke. When young it is entirely white, growing gradually darker with age, till almost entirely black, except the bill; the quill feathers, feet, and irides, becoming only brown.

6. Cinereous Vulture .- 6. Vultur cinereus. 6.

Of a blackish brown colour, with somewhat ash coloured quill and tail feathers, the legs being covered with brown feathers.

V. cinereus. Lath. ind. orn. i. 1. n. 2. Briff. av. i. 453. n. 1. Will. orn. 35. n. 1. Raj. fyn. 9. n. 1. Klein, av. 44. n. 4. Id. ov. av. 18. t. 5. f. 5—Vautour, Grand Vautour. Buff. oif. i. 158. t. 5. Pl. enl. 425.—Cinereous, or Ash coloured Vulture. Lath. fyn. i. 14.

β. Blackish Cinereous Vulture.—V. cinereus nigricans.

Of a blackish colour. Lath. ind. orn. i. 1. n. 2. \(\rho. \)

Inhabits Europe.—This fpecies measures three feet fix inches in length, and seven feet nine inches in the extent of the wings: The head, throat, and upper part of the neck, are covered with brown wool or down; under the throat is a tust of longish feathers, resembling hairs, forming a kind of beard; the toes are yellow, with black claws. It mostly frequents, and builds its nest, in high mountains. The blackish variety of this species is sometimes found, but is more rare than the other.

7. Maltese Vulture .- 7. Vultur fuscus. 8.

Of a brown colour, with blackish wing quills, the primaries being spotted with brown, and having white tips; the tail quills are greyish brown; the feet are naked.

V. fuscus. Lath. ind. orn. i. 5. n. 10. Briss. orn. i. 455. Id. 8vo. 130. n. 2.—Avoltajo Grissone-Cetti, uc. di fard. 3. G. 3.—Vautour de Malte. Buss. oif. i. 161. Pl. enl. 427.—Maltese Vulture. Lath. syn. i. 15.

Inhabits Europe, especially the island of Malta.—This species is between the fize of the Common and Turkey Pheasants: The head is covered with brown wool; the seathers on the scrag are narrow; the bill is black; the seet are yellowish, with dark coloured claws. This species has a good deal of resemblance to the Aquiline Vulture, or V. percnopterus, N°. 16. insomuch that Dr Gmelin questions whether it may not be a variety of that species.

8-

14

15

16

8. Black Vulture. - 8. Vultur niger. 9.

Of a black colour, having brown quill and tail feathers; the legs are covered with black feathers.

V. niger. Briff. orn. i. 457. n. 4. Id. 8vo. 131. Raj. fyn. 9. n. 2. Will, orn. 35. n. 2. Lath. ind. orn. i. 6. n. 11.—Swarthy Vulture. Charl. x. 71. n. 4.—Black Vulture. Will. ed. angl. 66. Lath. fyn. i. 16. n. 10.—Avoltojo nero. Cetti, uc. fand. 9. G. 9.

Inhabits Egypt and Sardinia.—This species is of a large fize, exceeding that of the Golden Bearded Vulture: The head is covered with brown wool; the upper part of the neck is entirely naked, and white; the fpace round the eyes, and the legs and feet down to the toes, are covered with white weolly down; the whole body is black, with brown quill and tail feathers; the tongue is fmooth at the edges; the first two inches of the bill is straight, the fore part is longer and hooked; the nostrils are round, and near a quarter of an inch in diameter. Dr Gmelin questions whether this Vulture may not be merely a variety of the Aquiline species,

9. Fulvous Vulture.—10. Vultur fulvus. 11.

Of a reddish grey, or tawny colour, on the upper parts of the body; the head, neck, and a collar round the neck, white; the quill and tail feathers black.

V. fulvus. Hablizl, ap. S. G. Gmelin, it. iv. 179. Pall. n. nord. beytr. iv. 58. Briff. orn. i. 462. n. 7. Id. 8vo. 133. Lath. ind. orn. i. 6. n. 12. Ger. orn. i. 43. t. 10. Raj. fyn. 10. n. 7. Will. orn. 36. t. 4. f. 1.—Griffon. Buff. oif. i. 151.—Vulture. Alb. av. iii. t. 1.—Fulvous Vulture. Lath. fyn. i. 17. Will. ed. ang. 67. n. 7.

Inhabits the mountains of Perfia.—This species is larger than the F. Aquila fulva, or Ring-tail Eagle: The head and neck are covered with thick woolly down; the bill is bluish ash colour, having its base covered by a black cere, or naked skin; the lower part of the neck is surrounded with several rows of long, narrow, briftly feathers, of a reddish white colour; on the middle of the breast is a kind of pit, or hollow, covered with white down, and furrounded with long narrow reddiff feathers; the feathers on the lower parts of the body are white towards the base and reddish at the tips. The legs, from the middle of the thighs downwards, are thickly covered on the infide with white down, and on the outfide with long reddish feathers; the feet are of a leaden colour, having black claws.

10. Aquiline Vulture. - 11. Vultur Percnopterus. 7.

The wing quills are black, having their outer edges, except those of the two outermost, of a hoary colour.

V. percnopterus. Gmel. it. iii. 364. t. 37. Borowsk. nat. ii. 65. Lath. ind. orn. i. 2. n. 3.— Percnoptere. Buff. oif. i. 149. Pl. enl. 426.—V. aquilina. Alb. av. ii. 3. t. 3.—Vulturine Eagle. Will. orn. 64. t. 4.—Alpine Vulture. Lath. fyn. i. 12. Id. fup. 3.

Inhabits Egypt, Palestine, Syria, Caramania, Persia, and the south of Europe.—The male is entirely white, having black quill feathers, all of which, except the two outermost primaries of each wing, have their external we've edged with hoary. The female is of a brown colour, having the quill fea-1 Let's edged like these of the male, except the four outermost primaries, which are of a uniform colour. The bill is black, its base being covered with a yellow cere; a liquid matter is constantly ouzing from the nostrils; the legs and feet are naked.

β. Egyptian Aquiline Vulture. - 11. β. V. Percnopterus aegyptius.

Of a reddish-ash colour, spotted with brown. Lath. ind. orn. i. 6. n. 3. 8.

17

18

19

V. aegyptius. Briff. orn. i. 457. 3. Id. 8vo. 131. 3.—V. facer aegyptius. Aldr. av. i. 378. t. p. 379.—Sacre egyptien. Bel. oif. 110. t. p. 111. Buff. oif. i. 167.—Egyptian Vulture. Lath. fyn. i. 13.—Vautour Percnoptere. Bom. dict. hift. nat. in voc.

Inhabits with the former.—According to M. Bomare, this variety is particularly diftinguished from other Vultures by having a heart-shaped brown blotch, bordered with a narrow white line, on the breast or craw, just below a russ, of long stiff feathers, which surrounds the lower part of the neck; the head and neck are naked and bluish, shining through a short white down; the cere and bill are black, the point of the latter being white. The male is three feet three inches long, the semale three feet eight; the male eight feet in extent, the semale nine.—These two varieties are of great use in the Levant, insomuch that at Cairo in Egypt they are encouraged by having food laid down for them, because, by devouring every kind of putrid animal substance, they prevent the disgussful and noxious effluvia, which would otherwise be almost intolerable in that hot country; and formerly it was made a capital crime, by the laws of the Egyptians, to kill one. In Palestine they are likewise of great use by destroying the vast multitudes of mice which swarm in the fields, and which, without their affistance, would devour the whole fruits of the ground.

11. Crested Vulture.—12. Vultur cristatus. 12.

Has a prominent crest on the head; the body is blackish red, the breast being redder; the legs and feet are naked.

V. cristatus. Briss. orn. 132. n. 6. Lath. ind. orn. i. 6. n. 13.—V. leporarius. Raj. syn. 10. n. 4. Will. orn. 35. n. 4. Klein, av. 44. n. 2. Id. ov. av. 18. t. 5. f. 2. Ger. orn. i. 42. t. 9.—Vautour à aigrettes. Buff. oif. i. 159.—Hare Vulture. Will. ed. angl. 67. n. 4. Lath. syn. i. 17.

Inhabits Europe.—In fize of body it équals the Ofprey, and the wings are fix feet in extent; the creft on the head is confpicuously erected like horns, when the animal is perched, or on the ground, but, when flying, it is not visible; the feet are yellow; the bill and claws are blackish; the tail is long and straight. Dr Gmelin expresses a doubt whether this animal should be considered as a Vulture, or as an Eagle. It is found in the thickest and most solitary forests, building its nest in the highest trees, in which the semale lays eggs of the colour of clayey water; it slies and runs with great swiftness, and in both ways pursues hares, rabbits, the whelps of wolves, and young fawns, and even catches fish.

12. Barbary Vulture. - 13. Vultur barbarus. 13.

Of a brown dusky colour, the under parts of a brownish white; the legs and feet are woolly, with leaden coloured toes, and brown claws.

V. barbarus. Lath. ind. orn. i. 3. n. 5.—V. barbatus. Briff. orn. 8vo. i. 137. n. 13.—Bearded Vulture. Edw. av. t. 106. Lath. fyn. i. 11. n. 6.

Inhabits

Inhabits Africa, especially the coast of Barbary.—This species is about the fize of the Ring-tailed Eagle, Aquila sulvus: The bill is of a purplish slesh colour, having a tust of black seathers, like a beard, hanging down from the lower mandible; the eye brows are red, and the irides of the eyes are yellow; the greater part of the head is covered with white woolly down; the front, cheeks, and orbits, are black; the scrag is covered with long, narrow, pointed, black feathers.

13. Pondicherry Vulture. - Vultur pondicerianus.

20

2 I

22

Of a black colour, having the head and neck almost naked and of a scarlet colour, with 1ed sleshy caruncles at the sides of the neck. Lath. ind. orn. i. 7. n. 14.

Vautour royal de Pondichery. Sonner. voy. ii. 182. t. 104.—Pondicherry Vulture. Lath. fyn. fup. 6.

Inhabits India.—The body is about the fize of a Goofe; the bill is black, and the feet are yellow.

14. Indian Vulture.-Vultur indicus.

Of a brown colour, with pale stripes on the upper parts of the body; the head and neck are naked and reddish; the quill and tail feathers are black. Lath ind. orn. i. 7. n. 15.

Grand Vautour des indes. Sonner. voy. ii. 183. t. 105.—Indian Vulture. Lath. syn. sup. 6.

Inhabits the coasts of India.—This species is about the same fize with the last; it is exceedingly voracious, and feeds on fish and carrion; the bill is black; the head is covered with hairy down, the neck is entirely naked; the breast is covered with shortened feathers, as if cut at the ends.

15. Gingi Vulture.-Vultur ginginianus.

Of a white colour with black quill feathers, the bill and feet being grey. Lath. ind. orn. i. 7. n. 16.

Vautour de Gingi. Sonner. voy. ii. 184.—Gingi Vulture. Lath. fyn. fup. 7.

Inhabits India, particularly the coast of Coromandel.—This species is about the fize of a Turkey, and is, in India, called the Wild Turkey; the irides of the eyes are red.

II. FALCON.-2. FALCO. 42.

The bill is hooked at the end, and is covered at its base with a cere, or naked membranous skin: The head is covered with feathers which lie close on each other: The tongue is frequently clest.

This is a rapacious race of animals, which are carnivorous, or feed almost entirely on animal food; they are not gregarious, and are very quick-fighted; they generally sly high, and build their ness in

lofty places, often in inacceffible rocks, except a fmall number of species which have their nests on the ground. In general the birds of this genus have the bills more crooked than those of Vultures; the nostrils are small, mostly oval, and are situated in that part of the bill which is covered with the cere or naked skin: The legs and feet are scaly; the middle toe is slightly connected, as far as the first joint, to the outmost toe; the claws are large, strong, very sharp, and much hooked. In general the semales are larger than the males, which is supposed necessary for procuring the food of their young ones.

Dr Gmelin feparates this genus into four fubgenera, or leffer divisions, which are adopted in this edition, including the first species, which he makes a separate subdivision on account of the great length of its legs, with his second subgenus, because it has some relation to the Vultures, and is arranged along with them by Mr Latham.—T.

* BASTARD-EAGLES.—GYPAETI.

The bill is hooked only towards the point, and its base is garnished with a beard of longish extended briftles.

This division of the genus holds a middle rank between Vultures and Eagles, both in general appearance and manners; the head is not so naked as in the Vultures, and the bill is not so much hooked as that of the Eagle; like eagles they destroy living animals, but frequently devour dead carrion like vultures; accordingly, by some authors they are ranked with the one, and by some with the other genus.

1. Secretary .- 1. F. Gypaetus serpentarius. 33.

23

24

Of a dark leaden colour, having a crest on the hind head; the legs are very long; the wing quills, vent feathers, and thighs, are black; the two middle tail quills are longer than the rest.

Vultur ferpentarius. Lath. ind. orn i. 8. n. 21.—Falco ferpentarius. Syft. nat. ed. Gmel. p. 250. n. 33. Miller, ill. t. 28. A. B.—Secretary Vulture. Lath. fyn. i. 20. n. 17. t. 2. fup. p. 4.—Grus capenfis. Pet. gaz. t. 12. f. 12.?—Sagittarius. Vofinaer, monogr. t. 8. Phil. tranf. lxi. 55. t. 2.—Secretaire. Sonner. voy. 87. t. 50.—Meffager du cap. Pl. enl. 721.—Slaangen-vraater. Sparm. voy. i. 154.

Inhabits the interior parts of Africa and Afia, and the Philippine isles.—This animal is about three feet high when erect; its legs are remarkably long, like those of the Grallae, or Waders; the claws are short, black, and hooked, but not very sharp; the bill is black, with a white cere, and is not garnished with the bristly beard mentioned as one of the characters of the subgenus; the space round the eyes is naked and orange coloured; the irides are pale ash coloured; the tail is rounded, having its two middle feathers much longer than the rest, and the tips of all its feathers are white; the crest at the back of the head may be erected and depressed at pleasure. The Secretary is very readily made tame, and, in its natural state, preys on quadrupeds of the order of Glires, and on amphibious animals.

2. Harpy .- 2. F. Gypaetus Harpyja. 34.

The head is furmounted with a crest of long feathers; the under part of the body is variegated.

Vol. I. Yultur

26

Vultur Harpyja. Syst. nat. ed. xii. i 21. n. 2.—Falco Harpyja. Syst. nat. ed. Gmel. 211. n. 34. Lath. ind. orn. i. 9. n. 1.—Aquilla cristata brasiliensis. Briss. av. i. 446. Raj. syn. 161. Klein, av. 42. Will. orn. 32. t. 4. D°. angl. 63.—Yzquauhtli. Hern. mex. 34. Raj. av. 161. Will. orn. 299. D°. angl. 388.—Urutaurana. Marcgr. bras. 203. t. p. 204. Raj. av. p. 7.—Oronooko Eagle. Brown, jam. 471.—Crested Eagle. Will. orn. 63. t. 4.—Crested Vulture. Lath. syn. i. 6.

Inhabits the warmer parts of America.—This species is almost as large as a Sheep, and is said to be able to cleave a man's skull with one stroke: The back, neck, and crest, are black; the under parts of the body are variegated with black, white, and tawny; the hind part of the head is covered with long feathers, which are frequently erected into a crown-like crest; under the maw the feathers are long and white, and, when irritated, these hang down almost to the ground; the under parts of the wings and tail are spotted with black and white; the eye is provided with a membrana nicitians.

3. Black Harpy .- 3. F. Gypaetus Jacquini. 35.

The head is covered with numerous long feathers; the feet are naked; the under parts of the body are white.

Vultur coronatus. Jacqu. beyt. der voeg. 15. n. 11.—Crowned Vultur. Lath. fyn. fup. 5.—Falco Jacquini. Syst. nat. ed. Gmel. i. 251. n. 35.—Falco Harpyja cristatus. Lath. ind. orn. i. 9. n. 1. 3.

Inhabits the mountains of New Granada, in Spanish America.—This species is supposed by Dr Gmelin to be near a kin to the Harpy, and by Mr Latham to be a variety of that species, on which account the same name is here given to both. When sitting, which it does in an erect posture, it is two feet and a half high; the back, wings, greatest part of the neck, and the bill, are black; the head is of a reddish ash colour, and is provided with a tust of a similar colour composed of numerous feathers near six inches long; this tust in general lies slat, but is erected into a crown or crest when the animal is irritated; the tail is long, and of a white colour, with transverse black bands; the legs and feet are naked and yellow, with black claws. Though naturally sierce, this animal may be tamed when caught young.

Though using almost the exact words employed by Dr Gmelin, Mr Latham reverses the descriptions of these two last described animals; adding, however, that the head of the former is of a dull or russet blue colour, and that the thighs of the latter are spotted with white.—T.

4. Tawny Bastard-Eagle. -4. F. Gypaetus ambustus. 36.

Of a pale tawny colour; the bill has an extensive cere, with naked straps; the legs and feet are bluish.

Falco ambustus. Syst. nat. ed. Gmel. i. 252. n. 36.—Vultur ambustus. Lath. ind. orn. i. 8. n. 18.—Tawny vulture. Brown, illust. 2. t. 1. Lath. syn. i. 19.

Inhabits Falkland's islands.—This species is two feet four inches long: The bill is short, thick, and dusky; its base is covered with an ample cere or membrane, which is garnished with bristles, and the straps, or spaces between the base of the bill and the orbits on each side, are naked; the chin is surnished with a beard of long thin feathers; the tail is dirty white, barred with brown; the feet are bluish, and the claws are not much hooked.

28

29

30

5. Angola Bastard-Eagle.—5. F. Gypaetus angolensis. 37.

Of a white colour; the cere is bluish; the orbits are naked and crimson coloured; the wing coverts, and base of the tail, are black.

Faleo angolenfis. Syft. nat. ed. Gmel. i. 252. n. 37.—Vultur angolenfis. Lath. ind. orn. i. 7. n. 17.—Angola Vulture. Penn. wales. 228. t. 19. Lath. fyn. i. 18.

Inhabits Angola.—This animal is nearly as large as a Goofe: The bill is long, only hooked at the end, and whitith; the eyes are furrounded with a broad naked space of a crimson colour, like raw sless, and the irides are yellowish; the breast or maw is protuberant; the legs and seet are scaly and dirty white.

There is fome difference in the descriptions of Dr Gmelin and Mr Latham; the former fays that the primary coverts of the wings and the base of the tail are black, the outermost coverts being spotted with white, and the tail having a white tip; Mr Latham informs us that the whole quill feathers of the tail, and its base, are black.—T.

6. Bearded Bastard-Eagle .- 6. F. Gypaetus barbatus. 38.

Of a whitish fiery-red colour, brown on the back, having a black stripe above and below each eye.

Faleo barbatus. Syft. nat. ed. Gmel. i. 252. n. 38.—Vultur barbatus. Syft. nat. ed. xii. i. 123. n. 6. Ger. orn. i. 49. t. 11. Bor. nat. ii. 64.—Vultur alpinus. Brifl. orn. i. 464. 8. Id. 8vo. i. 133.—Vultur barbatus. Lath. ind. orn. i. 3. n. 6.—Gypaetos grandis. Storr, Alpenr. i. 69.—Perenopterus, Gypaetos. Raj. fyn. 8. n. 10. Will. orn. 33. t. 4. Aldr. orn. i. 216. t. p. 217. 219. Gefn. av. 199. Alb. av. ii. 2.—Laemmergeyer. Andrea, Brief aus der Schweitz. 195. t. 12. Decouv. ruff. ii. 385. t. p. 387.—Avoltoio barbato. Cett. uc. fard. 16.—Vulturine Eagle. Alb. ii t. 3.

β. Golden Bastard-Eagle.—6. β. F. Gypaetus barbatus aureus.

Of a reddish colour, black on the back, the head and upper part of the neck being reddish white, the quill and tail feathers brown.

Falco barbatus aureus. Syft. nat. ed. Gmel. i. 252. n. 38. β .—Vultur aureus. Gefn. av. 783. t. 781. Aldr. orn. i. 277. f. p. 276. Briff. av. i. 458. 5. Id. 8vo. 132. Raj. av. 10. n. 5. Will. orn. 35. n. 5. Hablizl, n. nord. beytr. iv. 84. S. G. Gm. it. iv. 185.—Vultur baeticus. Aldr. orn. i. 273. f. p. 274. Raj. av. 10. n. 3.—Vultur barbatus rufus. Lath. ind. orn. i. 3. n. 6. β .—Chefnut Vulture. Will. ed. angl. 66. n. 3.—Golden Vulture. Will. orn. ang. 67. n. 5. t. 4. Lath. fyn. i. 18-

y. Persian Bastard-Eagle. - 6. y. F. Gypaetus barbatus persicus.

Has a bluish cere; the legs and feet, and the under parts of the body, are chesnut, mixed with white; and the tail is ash coloured.

Falco barbatus magnus. Syst. nat. ed. Gmel. i. 252. n. 38. γ.—Falco magnus. S. G. Gmelin, it. iii. 365. t. 38—Vultur barbatus persieus. Lath. ind. orn. i. 4. n. 6. γ.

Inhabits the Alps; the varieties β , and γ , are found in the mountains of Persia.—This species is of great fize, being four feet long, and near ten feet in extent; the bill is of an ash colour, mixed with Ppp 2.

32

BIRDS.

reddish, it is fringed at the fides, and garnished underneath with stiff black bristles, it is straightish and hooked at the end, which is furrowed on each fide; the noftrils are large, oval, and hid in ftrong black briftles; the feet are hairy down to the toes, having ftrong black claws, not much bent; the wings have each twenty-eight bright ash coloured quill feathers, and the tail has twelve quills, which are ash coloured in the middle.

The feveral varieties of this species build their nests in the holes and caverns of inaccessible rocks, laying three or four eggs each brood; they keep in finall flocks in the highest parts of the mountains, preving on alpine animals, fuch as Chamois, Goats, and Lambs, and are even faid to attack men when afleep; they likewife feed on dead carcafes. In general external appearance, in keeping together in flocks, and in their appetite for carrion, these animals resemble the Vulture tribe; but in other refpects, fuch as their courage, preying on living animals, and by having the head and neck covered with feathers, they refemble the Eagles.

7. Cinereous Bastard-Eagle. 7. F. Gypaetus Albicilla. 39.

Has a yellow cere and yellow feet; the plumage is light cinereous; the quill feathers of the tail being white, the middle ones having black tips.

Falco albicilla. Syft. nat. ed. Gmel. i. 253. n. 39. Faun. groenl. 53. Lath. ind. orn. i. 9. n. 2.— Vultur albicilla. Syft. nat. ed. xii. 123. n. 8. Faun. fuec. 55. Brun. orn. 12.—Aquila Albicilla. Briff. av. i. 427.—Pygargus, Albicilla, Hirundinaria. Bell. av. 15. Gefn. av. 205. Raj. av. 7. n. 5.—Grand Pygargue. Buff. oif. i. 99. Pl. enl. n. 411.—White-tailed Eagle. Will. orn. angl. 61.—Cinereous Eagle. Penn. Brit. 2001. i. n. 45. t. 18. Arct. 2001. ii. 214. Lewin, brit. birds, i. t. 4. Lath. fyn. i. 33. n. 8. Id. fup. 11.—Braunfahler Adler. Frisch, t. 70.—Fiske Orn. Brunnick, n. 12 .- Elo. hist. Kamtschatk. 501.

Inhabits Europe, particularly Scotland and its iflands.—This species is about the fize of a Turkey, being two feet nine inches long; it feeds much on fish, and even on the young of feals, but in this attempt it is often deftroyed, by fixing on old ones, which dive into the water and drown it; it likewife preys on various kinds of birds, efpecially those which dive for fish, which it watches with great attention, and catches as they rife to the furface. The body and wings are cinereous, or ash coloured, mixed with brown; the head and neck are pale ash; the irides and bill pale yellow; the base of the bill is longish; the space between the nostrils and orbits is bluish and almost naked, being interspersed with a few bristles; the tail is white; the legs are bright yellow, and covered from below the knees with down, and the feet have black claws. The Greenlanders use the skins of this species for cloathing, and either kill them with bows and arrows, or catch them in nets, or when stupisied by gorging themselves with the fat of seals, which is left for that purpose.

8. Plaintive Bastard-Eagle. - 19. F. Gypaetus plancus. 45.

The hind head is crested; the sides of the head and neck are naked; the breast and upper parts of the body are barred with brown and white, the under parts being white; the tail is white, with black transverse bands. Miller, illust. t. 17. Cook, voy. ii. 134. t. 32.

Falco plancus. Syst. nat. ed. Gmel. i. 257. n. 45.—Vultur plancus. Lath. ind. orn. i. 8. n. 19.— Plaintive Eagle. Lath. fyn. i. 34.—Plaintive Vulture. Lath. fyn. fup. 4.

Inhabits Terra del Fuego.—This animal is about two feet and a half long; it is confidered by Mr Latham as a Vulture, and by Dr Gmelin as an Eagle, for which reason it is placed in this intermediate subdivision: The bill is black, having the cere extending almost to the point; that membrane, the space round the orbits, and the naked sides of the head, or straps, with the legs and feet, are orange coloured or yellow; the wings are brown; the tip of the tail and the claws are black.

BIRDS.

33

34

9. Cheriway. -9. F. Gypaetus Cheriway. 40.

The hind head has a rusty crest; the body is rusty, with a whitish head, yellow feet and legs, and a rose coloured cere. Jacquin, beytr. 17. n. 12. t. 4.

Falco Cheriway. Syst. nat. ed. Gmel. i. 254. n. 40.—Vultur Cheriway. Lath. ind. orn. i. 8. n. 20.—Cheriway Vulture. Lath. syn. sup. 5.

Inhabits the island of Aruba or Amba, on the coast of Venazuela, in Spanish America.—The crest is composed of longish feathers, and it does not appear that the Cheriway has the power of erecting it; the bill is blue; the head and neck are yellowish; the cere and naked orbits are rose coloured; the quill feathers of the wings are very long and blackish; the tail is longer than the wings, and is mostly blackish, the two intermediate quill feathers being barred with white; the base of the tail is white; the claws are black.

** E A G L E S.—A 2 U I L Æ.

These are larger in fize than the animals of the succeeding subdivision, and their legs are for the most part rough.

The birds arranged under the fubdivisions of Eagles and Hawks, differ from the Bastard-eagles in preying on living animals, while the last prefer carrion and dead carcases, like the Vultures: Eagles feed chiefly on sheep, hares, squirrels, water-fowl of various kinds, serpents, and fish; whilst Hawks mostly prey on small birds and minute quadrupeds; both sly very high, so as frequently to become invisible, and often remain suspended in the air, hovering motionless on the wing in quest of prey, which they see at a prodigious distance, having the sense of vision in a most exquisite degree, and they pounce down upon their prey with incredible swiftness, more like the effect of a projectile force than of voluntary motion: They mostly live entirely solitary, except in the breeding season; they are faid to abstain from preying on birds, especially domestic sowls, during the hatching season, as if by agreement to allow these to make their nests, to hatch, and to bring up their young ones; their gastric juice is excessively acrid, and they can abstain from food for a considerable length of time, are very voracious, and are killed by eating bread; they vary considerably in size and external appearance, from age and difference of sex, which renders it very difficult to arrange them properly in system, but in general the semales are larger and stronger than the males.

The fubdivision into Eagles and Hawks is scarcely legitimate, as the limits cannot be pointed out with any tolerable accuracy, it is however retained in this edition on the very respectable authority of Dr Gmelin.—T.

1. Crowned Eagle. - 8. F. Aquila coronata. 1.

The cere is rust coloured; the legs are covered with white wool, spotted with black; the breast is reddish, and the sides are barred with black.

481

36

37

Aquila africana cristata. Briss. av. i. 448.—Crowned Eagle. Edw. av. iii. 31. t. 224. Lath. Syn. i. 27.—Falco coronatus. Syst. nat. ed. Gm. i. 253. n. 1. Lath. ind. orn. i. 11. n. 6.

Inhabits the east coast of Guinea.—The general colour is brown, the under parts being white, with round black spots; the upper part of the tail is dark ash coloured, barred with black; the feathers on the crown of the head are longish, and may be raised or depressed like a crest; the forehead and space round the eyes are whitish; the irides are orange coloured; the bill is rusty; the toes are orange coloured, and the claws black.

2. Chilese Eagle. - 10. F. Aquila Tharus. 41.

The cere and legs are yellow; the body is blackish white; and the hind head is crested. Molin. hist. nat. chil. 234.

Is very common in Chili.—It is about the fize of a large Capon; the head is furnished with a creft of black feathers, of which the outer range is longer than the rest; the bill is whitish; the body of the male is whitish, spotted with black, while the female is smaller and greyish; the quill seathers of the wings and tail are tipt with black; the feet are scaly, with very strong claws. This species builds on very high trees, forming its nest of tender twigs, wool, hair, and feathers, and laying sive eggs each brood; it feeds on poultry, and on the carcases of dead animals, approaching in this circumstance to the manners of the Vultures and Bastard-eagles.

3. Common Eagle.—11. F. Aquila Melanaetos. 2.

Has a yellow cere; the legs are fomewhat downy; the body is dark rusty brown, almost blackish, with yellow streaks.

Melanaetos, f. Aquila valeria. Gefn. av. 203. Aldr. orn. i. 197. f. p. 199. 200. Raj. av. 7. n. 4. Alb. av. ii. 2. t. 2. Briff. av. i. 434.—Falco Melanaetos. Syft. nat. ed. Gmel. i. 254. n. 2. Will. orn. 30. t. 2. Klein, av. 41. n. 4. Id. ov. av. 18. t. 5. f. 1. Phil. tranf. lvii. 346. Ger. orn. i. 37. t. 3. Borowfk. nat. ii. 68. n. 3. Lath. ind. orn. i. 10. n. 3.—Aigle commune. Buff. oif. i. 86. pl. enl. 409.—Schwartz-braune Adler. Frifch, t. 69.—Black Eagle. Will. orn. ang. 61. t. 2. Albin. ii. t. 2. Arct. 2001. ii. n. 87. Brit. 2001. i. n. 43. Lath. fyn. i. 28. fup. 8.

Inhabits Europe and North America.—This species is two feet ten inches long: The exterior webs of the tail feathers are white with black spots, the inner webs and the tips are blackish; the thighs are dirty white, the toes yellowish, and the claws black; the bill is of a horn colour verging to blue; the irides are chesnut coloured. The eggs, according to Klein, are dirty white, marbled with rusty clouds, which run together.

4. German Eagle. - 12. F. Aquila Glaucopis. 42.

The cere, and somewhat downy legs, are citron yellow; the back and breast are brown; the head and back of the neck are yellowish white with brown streaks; the wing quill feathers are black. Merrem, beyt. ii. 25. t. 7.

Inhabits the mountains of Dransberg, near Goettingen.—Is about twenty-one inches long; the bill is bluish grey, having the infide of the mouth and the tongue rose coloured; the tongue is fleshy, fomewhat

fomewhat horny at the edges, and fcarcely fplit at the point; the nostrils are large, egg-shaped, having some black bristles placed near them; the irides are hoary, mixed with yellow; the fore-head is marked with brown semilunar spots; the thighs are short, and covered with soft seathers, the fore part of the legs and feet being somewhat downy, and having black claws; the tail is reddish brown above, and dirty white below, having six narrow black stripes on each surface.

38

5. Bald Eagle. - 13. F. Aquila leucocephala. 3.

The bill, cere, and fomewhat downy legs, are yellow; the body is brown; the head, neck, and tail, are white.

Falco leucocephalus. Syft. nat. ed. Gm. i. 255. n. 3. Lath. ind. orn. i. 11. n. 5. Ger. orn. i. 40. t. viii.—Aquila leucocephalos. Briff. av. i. 423.—Pygargue. Buff. oif. i. 99. Pl. enl. 411.—White-headed Eagle. Penn. arct. zool. ii. 196. n. 89.—Bald Eagle. Lath. fyn. i. 29. fup. 9. Catefb. carol. i. t. 1.

Inhabits the northern parts of Europe, Asia, and America.—This species is about three feet three inches long, weighing nine pounds, and, though small, has great spirit; it builds in large decayed cypress or pine trees which hang over the sea, sometimes, as in Beerings isse, on cliss near the shore; it preys on lambs, sawns, pigs, and sish, which last it often takes from the Osprey, pursuing that bird, when it has caught a fish, till it drops its prey, which it catches with astonishing dexterity in the air while falling; and often attends sowlers and seizes the game they have shot: The nest is very large, near six feet wide, often very numerous in one place, like a rookery, and extremely fetid from the remains of the prey; they breed often, laying two eggs at a time, and sometimes lay a second time in the same nest before the first brood is fully sledged. The colour of the body is a dark chocolate brown, with white head, neck, and tail; the bill is yellow, and the irides white.

39

6. Osprey .- 14. F. Aquila Offifraga. 4.

The bill is bluish; the cere and half downy legs are yellow; the body is rusty brown; the inner edges of the tail quills are white.

Falco Offifragus. Syst. nat. ed. Gm. i. 255. n. 4. Lath. ind. orn. i. 12. n. 7. Muller, n. 60. Borowsk. nat. ii. 69. n. 4.—Aquila Offifraga. Briff. orn. i. 125. n. 9. Klein, av. 41. n. 5.—Aquila marina. Cetti, uc. fard. 28.—Offifraga. Gesn. av. 263. Aldr. orn. i. 222. t. p. 225. 228. Brunn. orn. 13.—Haliaetus, s. Offisraga. Raj. av. 7. n. 3.—Orfraye, Orfraje, Offisrague, or Grand Aigle de mer. Buff. ois. i. 112. t. 3. pl. enl. n. 112. 415.—Osprey or Sea Eagle. Will. orn. angl. 59. t. 1. Brit. 2001. i. n. 44. t. 17. Arct. 2001. ii. 194. n. 86. Lath. syn. i. 30. n. 4. sup. 9. Lewin, brit. birds, i. t. 1.

Inhabits the fea coasts of Europe, Asia, and America.—This species is about the size of a Turkey, being about three feet four inches long, but is larger considerably in America and northern Asia than in Europe; it lives almost entirely by catching fish, but sometimes preys on sea-sowl, land birds, and young seals; the plumage on the head, neck, and back, is brown edged with dirty white; the chin is white; the coverts of the wings are brown clouded with darker; the wing quill seathers are black-ish; the breast and belly are brown, spotted with white; the tail is dusky, the interior edges of its quill feathers, the shafts, and the coverts being white; the legs are yellow, and have hardly any down

down below the knecs: The colour of the female is more rufty, or a yellower brown, than that of the male. Dr Gmelin confiders the Ofprey as having confiderable refemblance to the next species.

7. Golden Eagle. - 15. F. Aquila Chrysaëtos. 5.

The bill is bluish, with a yellow cere; the legs are brownish, or rusty yellow, and downy; the body is mixed brown and rush colour; the tail is dusky brown or blackish, clouded with ash colour at the base.

Falco Chrysaetos. Syst. nat. ed. Gm. i. 256. n. 5. Lath. ind. orn. i. 12. n. 8.—Aquila germana. Gesn. av. 168.—Aquila chrysaetos. Raj. av. 6. n. 1. Aldr. orn. i. 111. f. p. 114. 115. Muller, n. 59. Kramer, 325. Borows. nat. ii. 66. t. 2. Gerin. orn. i. 36. t. 2.—Aquila aurea, s. Chrysaetos. Briss. av. i. 431. n. 7.—Grand Aigle. Buss. ois. i. 76. pl. enl. 410.—Gold Adler. Wirsing. voy. t. 45.—Orn. Faun. suec. n. 54.—Golden Eagle. Penn. Brit. 2001. i. 161. t. 16. Arct. 2001. ii. 214. A. Pits. mem. t. p. 182. Lewin, brit. birds. i. t. 2. Lath. syn. i. 31. sup. 10.

Inhabits Europe and northern Asia, particularly the Uralian deferts, and southern mountains of Siberia.—This species weighs twelve pounds, and measures three feet long, and near seven feet and a half between the tips of the wings; but it is found of different sizes; the tail is white beneath, and black at the tip; the legs are covered with feathers down to the toes. In sine weather, this species slies extremely high, but comes nearer to the earth before storms.

8. Tawny Eagle.—16. F. Aquila fulva. 6.

The cere is yellow; the legs are downy and rusty brown; the back is brown; the tail has a white transverse band.

Falco fulvus. Syst. nat. ed. Gm. i. 256. n. 6. Lath. ind. orn. i. 10. n. 4. Georg. voy. 164. Decouv. rust. i. 89. ii. 142.—Aquila. Briss. av. i. 419. Aldr. orn. i. 17. Dodart, act. iii. 89. t. 49.—Chrysaetos, s. Aquila sulva. Raj. av. 6. n. 2. Will. orn. 28. Ger. orn. i. 35. t. 1.?—Aigle commun. Bust. ois. i. 86. pl. enl. 409.—Black Eagle. Brit. 2001. i. n. 43.—Ring-tailed Eagle. Will. orn. ang. 59. Lewin, brit. birds. i. t. 3. Id. i. t. 1. (ov.) Lath. syn. i. 32. n. 6. sup. 10.

β. Canadian Tawny Eagle.—16. β. F. Aqu. fulva canadensis.

The tail is white with a brown tip.

4.84

40

41

42

Falco canadensis. Syst. nat. ed. x. 88. Id. ed. xii. 125. n. 6. s. Id. ed. Gm. i. 256. n. 6. s. Lath. ind. orn. i. 11. n. 4. s.—Aquila americana. Ger. orn. i. 40. t. 7.—White-tailed Eagle. Edw. av. i. t. 1. Lath. syn. i. 32. n. 6. A. Voy. to huds. bay. iii. 54. t. 2.

These two varieties inhabit Europe, North America, and Northern Asia.—They build in lofty and inaccessible rocks; are of a very docile nature, and are trained for the chase of hares, soxes, antelopes, and wolves, by several Tartar tribes, as is mentioned by Marco Polo and other travellers; and the quill feathers of their tails are in great esteem among the Tartars for mounting their arrows. The fore-head, between the eyes and nostrils, is naked; the breast is marked with triangular white spots; the legs are feathered down to the toes. This species so nearly resembles the Common Eagle, No. 36. as to be suspected, by Dr Gmelin, to be the semale of that species.

15

46

47

9. White-bellied Eagle. - 17. F. Aquila leucogaster. 43.

Of a white colour; the back, wings, and tail, being dusky brown; the tip of the tail is white; and the legs are yellow.

Falco leucogafter. Syft. nat. ed Gm. i. 257. n. 43. Lath. ind. orn. i. 13. n. 9.—White-bellied Eagle. Lath. fyn. i. 33. n. 7. a.

Inhabits North America.—Is about two feet nine inches long; the bill is large, and of a brownish yellow colour; the claws are black.

10. Japonese Eagle. - 18. F. Aquila japonensis. 44.

The cere is dusky, and the feet yellow; the body is brown, varied with rust colour; the wing and tail quills are dusky, with rusty spots.

Falco japonenfis. Syft. nat. ed. Gm. i. 257. n. 44. Lath. ind. orn. i. 13. n. 10.—Japonese Eagle, or Hawk. Lath. syn. i. 33. n. 7. b.

Inhabits Japan.—This species is scarcely two feet long; the bill is narrow, blue at the base, blackish at the tip, and yellowish underneath; the fore-head is buff coloured; the feathers on the rest of
the head and on the body are brown with rusty tips; the chin is white, with black streaks, and surrounded with a semilunar black mark; the feathers on the breast and belly are edged with yellowish
white; the claws are large and black.

11. American Eagle.—20. F. Aquila americana. 46.

The cere, and downy legs, are yellow; the head, neck, and breaft, are dusky ash colour; the back, belly, wings, and tail, are black; the knees have a transverse black band.

Falco americanus. Syst. nat. ed. Gm. i. 257. n. 46. Lath. ind. orn. i. 13. n. 12.—Black-cheekered Eagle. Lath. syn. i. 35. n. 10. Robert, ic. av. Arct. zool. ii. 196. n. 88.

Inhabits North America.—Is about the fame fize with the Tawny Eagle, No. 41. The bill is of a dull, or blackish, blue colour.

12. White Eagle. - 21. F. Aquila alba. 47.

Is entirely white.

Falco albus. Syst. nat. ed. Gm. i. 257. n. 47.—Falco cygneus. Lath. ind. orn. i. 14. n. 16.— Aquila alba. Briss. orn. i. 424. n. 3. Id. 8°. i. 123. n. 3.—Aquila alba cygnea. Klein, av. 42. n. 7.—White Eagle. Lath. syn. i. 36. n. 12. Charl. onom. 63. n. 9.

Inhabits the Alps, and the borders of the Rhein.—This species is about the size of the Golden Eagle, No. 40. of which Dr Gmelin suspects it may be only a variety.

13. Louisiana Eagle.—22. F. Aquila candida. 48.

Is entirely white, with black tips to the wings.

Vol. I. Qqq

50

Falco candidus. Syst. nat. ed. Gm. i. 258. n. 48. Lath. ind. orn. i. 14. n. 17.—White Eagle. Arct. zool. ii. 197. n. 90. Du Pratz, louis. ii. 75.—Louisiane white Eagle. Lath. syn. i. 36. n. 13.

Inhabits Louisiana.—This very rare and beautiful species is rather smaller than the foregoing; it is in high estimation among the native Americans, who ornament the Calumet, or Pipe of peace, with its wings.

48 14. Small Eagle.—23. F. Aquila naevia. 49.

The cere, and downy legs, are yellow; the body is of a rusty brown colour, spotted: with white below the wings.

Falco naevius. Syst. nat. ed. Gm. i. 258. n. 49. Lath. ind. orn. i. 14. n. 18.—Aquila naevia. Briss. orn. 122. n. 4. Frisch. t. 71.—Petit Aigle. Buff. ois. i. 91.—Rough-footed Eagle. Charlonom. 63. n. 6. Lath. syn. i. 37. n. 14.

Inhabits Europe.—Is about the fize of a large Cock, being fomewhat more than two feet feven inches long: The under coverts of the tail are white; according to Mr Latham, the tail quill feathers are white at the base and tips; the irides are yellow; the claws are black. This species lives chiefly on quadrupeds of the order of Glires.

15. Spotted Eagle.—24. F. Aquila maculata. 50.

The cere, and downy legs, are yellow; the body is rusty brown on the upper, and full brown on the under parts.

Falco maculatus. Syft. nat. ed. Gm. i. 258. n. 50. Lath. ind. orn. i. 15. n. 19.—Aquila Clanga. Klein, av. 41. n. 6.—Planga, Clanga. Arift. hift. an. ix.—Morphnos, Clanga, Anataria. Will. orn. 63. Raj. av. 7. n. 7.—Spotted Eagle. Lath. fyn. i. 38. n. 15.—Crying Eagle. Arct. zool. ii. 215. C.

Inhabits Europe, Asiatic Russia as far as Kamtschatka, Arabia, and Persia.—Is about two feet long: The scapulars and wing coverts are elegantly varied with oval white spots, which are large on the greater coverts; the back is spotted with buff colour; the belly and breast are streaked longitudinally with buff, or dull yellow; the bill is large and dusky; the claws are black; the tail is dark brown, tipt with dirty white; the primary wing quill feathers are dusky, the ends of the greater ones being, white.

16. White-tailed Eagle.—25. F. Aquila albicauda. 51.

The cere, and naked legs, are yellow; the head and neck are ash coloured, tinged with chesnut; the upper part of the body is dusky rust colour, the under parts rusty and blackish; the tail is white.

Falco albicaudus. Syft. nat. ed. Gm. i. 258. n. 51.—Falco hinnularius. Lath. ind. orn. i. 25. n. 20.—Aquila Albicilla minor. Briff. orn. 124. n. 6.—Aquila Pygargus, of Aldrovandus. Will. orn. ang. 62.—Hinnularia, or Fawn-killing Eagle. Charl. onom. 63. n. 4.—Erne. Gefn. av. 205.—Leffer white-tailed Eagle. Lath. fyn. i. 39. n. 16.

Inhabits Europe.—Is about the fize of a large Cock, being two feet two inches long: The bill and irides are yellowish; the tips of the feathers are blackish; the claws are black. Mr Latham says that

5 I

32

53

54

Eagles.

this species sometimes varies, the external edges of the tail quill feathers being brown in some individuals.

17. French Eagle. - 26. F. Aquila gallica. 52.

The bill is ash coloured; the legs are naked and yellowish; the body is brown grey; the under parts, in the male, being whitish, with reddish brown spots.

Falco gallicus. Syst. nat. ed. Gm. i. 259. n. 52. Lath. ind. orn. i. 15. n. 21. Falco hypoleucos. Decouv. ruff. iii. 303.-Aquila Pygargus. Briff. orn. 127. n. 11. Jonft. av. 4. t. 2. Belon. av. 103. f. p. 104. Borowsk. nat. ii. 71.—Albanella. Cetti, uc. fard. 31.—Blanche-queue. Hist. de Lyon. i. 205.—Jean-le-blanc. Buff. oif. i. 124. t. 4. pl. enl. 413. Lath. fyn. i. 39. n. 17.

Inhabits Europe, but is chiefly found in France.—Is fomewhat less than the Common Eagle, No. 36. being about two feet and an inch long: The quill feathers of the tail are white, with transverse brown streaks, brown tips, and brown edges; the claws are ash coloured. This species builds on the ground, very feldom in trees, and has mostly three grey eggs each brood; it feeds for the most part on mice, rats, and frogs.

18. Antartic Eagle. -27. F. Aquila australis, 53.

Of a brown colour, with a yellow cere, and black tail, spotted at the tip with dirty white.

Falco australis. Syst. nat. ed. Gm. i. 259. n. 53. Lath. ind. orn. i. 16. n. 23.—Statenland Eagle. - Lath. fyn. i. 40. n. 19.

Inhabits Statenland.—Is about the fize of the Plaintive Bastard-eagle, No. 32. being a little more than two feet long: The tail, according to Mr Latham, is yellowish at the tip; its voice resembles that of a common hen.

19. Black-backed Eagle. - 28. F. Aquila melanonota. 54.

The cere, and downy legs, are yellow; the head, crown, belly, and wing coverts, are rufty; the back, breast, chin, and wing quills, are black.

Falco niger. Syft. nat. ed. Gm. i. 259. n. 54.-Falco melanonotus. Lath. ind. orn. i. 16. n. 26.—Black-backed Eagle. Lath. fyn. i. 42. n. 22. Brown, illuf. 4. t. 2.

Its place uncertain.—Is about the fize of the Golden Eagle, No. 40. The tail is white at the base, the outer half being black; the bill and claws are black.

20. White-crowned Eagle. - 29. F. Aquila leucorypha. 55.

The cere is ash coloured, with a dusky bluish tinge; the legs are half downy and whitish; the body is clouded brown; the crown and chin have each a triangular white fpot.

Falco leucoryphus, Syft. nat. ed. Gm. i. 250. n. 55. Lath. ind. orn. i. 17. n. 27.—Aquila leucorypha. Pallas, it. i. 454.—White-crowned Eagle. Lath. fyn. i. 42, n. 23.

Inhabits

55

56

57

58

Inhabits the fouthern parts of Siberia, towards the Jaik and Ural.—It refembles the Ofprey, No. 39. but is fomewhat larger: The wings are dirty black, the inner webs of their quill feathers being white; the tail is longish, stiff, and equal at the end; the tongue is round, and undivided at the tip; the irides are brown grey; the claws are very large and black.

21. Ruffian Eagle. - 30. F. Aquila Mogilnik. 56.

The cere is yellow; the legs are downy, and, with the rest of the body, are dark rusty brown, the back being mixed with white.

Falco Mogilnik. Syst. nat. ed. Gm. i. 259. n. 56. Lath. ind. orn. i. 17. n. 28.—Aquila Mogilnik. S. G. Gmel. nov. com. petrop. xv. 445. t. 11. b.—Russian Eagle. Lath. syn. i. 43. n. 24.

Inhabits the deferts of Russia, near the Don.—Is about the fize of the Tawny Eagle, No. 41. being two feet three inches long: The bill, pupils of the eyes, claws, and wing quill feathers are black; the eye-lids are pale blue; the irides are pale; the tail is equal at the end, its quill feathers being black, with slight greyish transverse bands, and reddish tips. This species lives on murine quadrupeds and small birds.

22. Crested Eagle. - 31. F. Aquila cristata. 57.

The head is crefted; the back, wings, and chin, are black; the belly is white; the tail has four parallel ash coloured bands.

Falco criftatus. Syft. nat. ed. Gm. i. 260. n. 57. Lath. ind. orn. i. 17. n. 29.—Crefted Falcon. Dillon, trav. in Spain. 80. t. 3.—Caracca Falcon. Lath. fyn. i. 81. n. 64.

Probably inhabits South America.—Is about the fize of a Turkey: The lower mandible of the bill is remarkably ftraight, while the upper one is confiderably hooked.

23. Rough-legged Eagle.—32. F. Aquila lagopus. 58.

The cere, and naked toes, are yellow; the legs are downy; the body is black, spotted with white; the tail quills are white, with black tips. Brunn. orn. bor. 4.

Falco lagopus. Syft. nat. ed. Gm. i. 260. n. 58. Lath. ind. orn. i. 19. n. 33.—Falco norwegicus. Leem, lap. 236.—Graa-falk. Act. nidrof. iv. 417. t. 13.—Rough-legged Falcon. Brit. 2001. ii. app. 529. t. 1. Arct. 2001. ii. 200. n. 92. Lewin, brit. birds. i. t. 14. Lath. fyn. i. 75. n. 54. fup. 18.

Inhabits Europe and North America, but is feldom found in England.—Is about two feet two inches long: The head, neck, and breaft are of a yellowish white, with a few scattered brown streaks. Mr Latham says that the tail is brown, with a white base and tip; and that it preys on partridges and other small birds.

24. Greenland Eagle. - F. Aquila groenlandica.

The cere and legs are of a lead colour; the body is brownish on the upper, and whitish, with longitudinal brown streaks, on the under parts.

Eagles.

60

бі

Falco fuscus. Lath. ind. orn. i. 19. n. 33. s. Faun. groenl. 56. n. 34. s.—Grey Falcon. Crantz, groenl. i. 75. Egede, groenl. 62.—Dufky Falcon. Arct. 2001. ii. 220. E.—Greenland Falcon. Lath. fyn. fup. 18.

Inhabits Greenland and Iceland.—Mr Pennant describes this species somewhat differently from the character which is given from Mr Latham's Index ornithologicus: The crown is brown, with irregular oblong white fpots; the fore-head is whitish; the cheeks blackish; the hind part of the head and the throat are white; the breaft and belly are yellowish white, with longitudinal dusky streaks; the back is dufky, tinged with blue, the ends of the feathers being lighter coloured, and is fprinkled with a few white fpots, especially about the rump; the wings are of the same colour with the back, and are variegated beneath with black and white; the upper part of the tail is dufky, faintly croffed with paler bars, and its under fide is whitish. It is of a small fize; lives on Ptarmigans, Auks, and other birds, having frequent difputes with the Ravens, which mostly get the better by numbers. The tails of the young birds are black, with large brown fpots on the external webs of the quill feathers.

25. Fierce Eagle. - 33. F. Aquila ferox. 59.

The cere is green; the upper part of the body is brown; the back, belly, and rump, are clear white, with chefnut coloured spots; the tail quills are equal in length, of a brown colour, with four flightly marked paler bands.

Falco ferox. Syft. nat. ed. Gm. i. 260. n. 59. Lath. ind. orn. i. 13. n. 11.—Accipiter ferox. S. G. Gmel. nov. com. petrop. xv. 442. t. 10.—Fierce Eagle. Lath. fyn. i. 33. n. 7.

Inhabits the Ruffian empire, near Aftrachan.—Is about two feet and an inch long; is extremely greedy, and preys often on carrion: The head and neck are rufty, mixed with white, having a blackifh-lead coloured bill; the eye-lids are blue, and the irides yellow; the wings have each twenty fix black quill feathers, which are white underneath, and grey at the tips; the tail is equal at the end. having twelve quill feathers, which are white underneath; the claws are very fharp.

26. Javan Eagle. - 34. F. Aquila javanica. 60.

The cere and legs are yellow; the body, thighs, and tail, which is white at the tip, are dusky red mixed with white.

Falco maritimus. Syst. nat. ed. Gm. i. 260. n. 60. Wurmb, in Lichtemb. magaz. des phys. iv. 2. 6. Lath. ind. orn. i. 20. n. 35.

Inhabits the sea coast of Java. - This species preys on fish and carrion; it is sour feet two inches long, measuring from the end of the bill to the tip of the tail, and is one foot five inches high, when standing: The bill is yellow.

27. Egyptian Eagle. - 35. F. Aquila aegypta. 61.

The cere, and half downy legs, are yellow; the upper part of the body is ash coloured, and the under parts rufty; the upper parts of the wings are brown; the tail is ash coloured, barred with brown, as long as the body, and forked at the end.

Falco aegyptus. Syst. nat. ed. Gmel. i. 261. n. 61.—Falco Forskahlii. Id. 263. n. 121. Lath. ind. ind. orn. i. 20. n. 36.—Falco cinereo-ferrugineus. Forsk. faun. arab. i. 1. et vi. 1.—Arabian Kite. Lath. syn. sup. 34.

Inhabits Egypt.—Mr Latham thinks this may be a variety of the Kite: The wing quill feathers are black at the tips; the under fides of the wings are brown grey; the bill is yellow, and the claws black. It is about a foot and a half long, and is numerous in Egypt during winter.

62 28. Kite.—36. F. Aquila Milvus. 12.

The cere is yellow; the tail is forked at the end; the body is rusty, and the head somewhat whitened.

Falco Milvus. Syft. nat. ed. Gm. i. 261. n. 12. Faun. fuec. n. 57. Ger. orn. i. 62. t. 39. Borowsk. nat. ii. 72. n. 8.—Falco cauda forficata. Klein, av. 51. n. 13. Id. ov. 19. t. 6. f. 1.—Milvus. Gesn. av. 610. Aldrov. orn. 392. f. p. 368. Raj. av. 17. t. 25.—Milvus regalis. Brist. av. i. 414. t. 33.—Milan. Wirsing. voy. t. 48.—Milan royal. Buff. ois. i. 197. t. 7. Pl. enl. 422.—Weissar Milan. Gunth. nest. u. eyer. t. 63.?—Glada. Faun. suec. n. 57.—Nibbio. Cetti, uc. fard. 57. Zinnan. uov. 82. t. 13. f. 73.—Hunergeyer. Wurmb, in Licht. magaz. der phys. iv. 2. 6.—Kite, or Glead. Brit. 2001. i. n. 53. Arct. 2001. ii. 223. H. Will. orn. ang. 74. t. 6. Alb. i. t. 4. Hayes, brit. birds. t. 5. Lewin, br. birds. i. t. 10. and t. 2. f. 3. (ov.) Lath. syn. i. 61. n. 43. sup. 17.

63 β. Siberian Kite. - 36. β. F. Agu. Milvus sibiricus.

The crown of the head, and the throat, are chesnut coloured. S. G. Gmel. it. i. 147.

64 y. Russian Kite.—36. y. F. Aqu. Milvus Korschun.

The cere is greenish; the body is brownish; the head, throat, and chin, are chesnut coloured.

Accipiter Korschun. S. G. Gmel. nov. com. petrop. xv. 444. t. 11. a.—Russian Kite. Lath. syn. i. 63. n. 46.

65 S. Jaic Kite. - 36. S. F. Aqu. Milvus jaicenfis.

The back coverts are violet coloured, having the tip of each feather marked with a white spot. Lepech. it. ii. 180. t. 2.

The feveral varieties of the Kite are found in Europe, Asia, and Africa.—They prey almost on any thing that comes in their way, and are particularly destructive to young poultry. When, in their slight, they skim gently along, it is considered as portending tempestuous weather; when they soar very high, sine weather is expected; and when they are clamorous it is thought to foretell rain. They breed twice a year, once in the summer of Europe, and a second time in the mild winter of Egypt and the Levant, laying usually three roundish eggs, which are whitish, with dirty yellow spots. They migrate from Asia to Europe about the end of April, and during sourteen days are seen crossing the Black Sea in immense multitudes; but are found in Britain at all seasons. The Kite is about two seet long, or a little more, and sive feet in extent of the wings, weighing about forty-sour ounces.—The Russian variety, 7, which is found mostly about the Don, is only about twenty-one inches long; its bill is blackish lead colour, with a greenish cere; the circumference of the orbits is white; the tail

and wing quill feathers are black with dufky tips.—The Jaic variety, & which inhabits towards the Jaic and Ural, is hardly twenty inches long, of which the tail is twelve inches; its feathers are mostly tipt with white; its wing quills are marked with alternate streaks and spots of white and cherry-red from the base to the middle, and of greenish or bluish black from the middle to the end; the tail quills have each two narrow yellow and white streaks at the tips; the irides are yellow; the thighs are covered thickly with feathers; the claws are black.

66

29. Black Kite .- 37. F. Aquila atra. 62.

The cere and legs are yellow; the tail is forked; the upper part of the body is brownish black; the head and under parts whitish:

Falco ater. Syst. nat. ed. Gmel. i. 262. n. 62. Lath. ind. orn. i. 21. n. 38.—Milvus niger. Briff. orn. 117. n. 34.-Milan noir. Buff. oif. i. 203. Pl. enl. 472.-Schwarzer Milan. Gunth. nest. u. eyer. t. 55.—Brauner mald geyer. Kramer, elench. 326. n. 5.—Black Gled. Sibb. Scor. ill. ii. lib. 3. p. 15.—Black Kite. Lath. fyn. i. 62. n. 44.

Inhabits Europe.—Is finaller than the Kite; the tail is but flightly forked; the thighs and legs are flender; the claws are black.

67

30. Austrian Kite. - 38. F. Aquila austriaca, 63.

The cere, and half downy legs, are yellow; the tail is forked; the upper part of the body is chefnut, and the lower parts brick dust colour, spotted with brown.

Falco auftriacus. Syft. nat. ed. Gm. i. 262. n. 63. Lath. ind. orn. i. 21. n. 39.—Brauner geyer. Kramer, elench. 327. n. 6 .- Austrian Kite. Lath. fyn. i. 62. n. 45.

Inhabits the forefis of Austria.—Is about the same fize with the Kite: The bill is yellow, with a black fpot; the angles of the mouth are yellow, and the palate is blue; the irides and claws are black; the forehead and chin are whitifh, with brown fpots; the head, breaft, and wings, are chefnut coloured; the tail is fmall, and but flightly forked; its quill feathers are striped with blackish, and are white at the tips.

31. Brasilian Kite: - 39. F. Aquila brasiliensis. 64.

The legs are yellow; the body is readish, interspersed with white and yellow dots; the tail is variegated with brown and white.

Falco brafiliensis. Syst. nat. ed. Gmel. i. 262. n. 64. Lath. ind. orn. i. 21. n. 40.—Milvus brasiliensis. Raj. av. 17. n. 6.—Circus brasiliensis. Briss. orn. 116. n. 31.—Caracara. Buff. oif. i. 222.— Brasilian Kite. Lath. syn. i. 63. n. 47.

Inhabits Brasil.—Is about the fize of the Kite: The breast and belly are sometimes whitish; the tail is about nine inches long; the bill, and long fharp claws, are blackish; the eyes and irides are yellow. This species is very destructive to poultry.

69

68

32. Peruvian Kite.-40. F. Aquila peruviana. 25.

The cere is dusky; the legs are yellowish; the body is brown above and whitish below: the tail is very long and much forked.

Falco

71

72

73

Falco furcatus. Syst. nat. ed. Gmel. i. 262. n. 25. Lath. ind. orn. i. 22. n. 41.—Falco peruvianus. Klein, av. 51. n. 14.—Milvus carolinensis. Brist. orn. 118. n. 36.—Milan de la Caroline. Bust. ois. i. 221.—Hirundo maxima peruviana. Feuill. it. ii. 33.—Swallow-tailed Hawk, or Herring Hawk. Catesb. carol. i. 4. t. 4. Lawson, carol. 138.—Swallow-tailed Falcon. Arct. zool. i. 210. n. 108. t. x. Lath. syn. i. 60. n. 42.

Inhabits Peru, and Carolina.—This species lives on lizards, serpents, and various insects, which last it catches, like swallows, when slying; it is about two feet long, but rather smaller than the kite: The back has a purplish and greenish tinge; the head and neck are white; the inner webs of the primary and secondary wing quills are white towards the bases, and the tertial wing quills are white; the bill is black, not much hooked, and is surrounded with bristles at its base; the tail is very much forked.

33. Balbuzard .- 42. F. Aquila Haliaetos. 26.

The cere and legs are blue; the upper part of the body is brown; the lower parts, and the head, are white.

Falco Haliaetos. Syst. nat. ed. Gm. i. 263. n. 26. Lath. ind. orn. i. 17. n. 30. Borowsk. nat. ii. 71. n. 6. Kolb. cap. ii. 137.—Haliaetos, s. Aquila marina. Briss. orn. 126. n. 10.—Falco cyanopus. Klein, stem. 8. t. 8. f. 1. a. b. c.—Aigle de mer. Voy. en barb. i. 265. n. 4.—Morphnos, s. Clanga. Aldr. orn. i. 211. Raj. av. 7. n. 6. Will. orn. 32.—Bald Buzzard. Will. orn. angl. 69. t. 6.—Balbuzard. Buff. oif. i. 103. t. 2. Pl. enl. 414.—Balbuzardus anglorum. Raj. syn. 16. A. 3. Gerin. orn. i. 64. t. 40.—Fisk Gjoe. Leem. 234.—Fishaar. Wirsing. voy. t. 47.—Blafot, Fisk-orn. Faun. succe. n. 63.—Osprey. Brit. 2001. 1. n. 46. Id. fol. 65. t. A. 1. Faun. scot. i. 17. t. 1. Arct. 2001. ii. 199. n. 91. Lewin, brit. birds. i. t. 5. Id. i. t. 1. f. 2. ov. Lath. syn. i. 45. n. 26. sup. 13.

β. Russian Balbuzard.—42. β. F. A. Haliaetos arundinacea.

The cere is ash coloured; the legs are pale; the body is brownish grey above, and whitish below; the tail is equal. S. G. Gmel. it. ii. 163.

y. Carolina Balbuzard .- 42. y. F. A. Haliaetos carolinensis.

The tail is uniformly brown; the crown is black, or brown, variegated with white; the belly is white.

Falco piscator antillarum, et Falco pisc. carolinensis. Briss. orn. 105. n. 14. 15.—Piscator. Raj. av. 19. n. 2.—Faucon pecheur, de la caroline. Buss. ois. i. 142.—Fishing Hawk. Catesb. carol. i. 2. Lawson. 137. Bricknel, 173.—Carolina Osprey. Lath. syn. i. 46. n. 26. A.

S. Cayenne Balbuzard .- 42. S. F. A. Haliaetos cayennen sis.

The body is rusty brown; the hind head is white, and a white line reaches from thence through the region of the eyes to the upper mandible.

·Cayenne Ofprey. Lath. fyn. i. 47. n. 26. B.

Inhabits Europe, Asia, and America; is found in the Isle of Pines, in the South Sea, and at the Care of Good Hope.—How this bird, and the Osprey, Aquila Offifraga, No. 39. have both received

75

76

77

the fame English names from such respectable ornithologists as Mr Pennant and Mr Latham, is difficultly conceived; that they are very different species is perfectly apparent, and accordingly, in this edition, the name of Balbuzard, which is a corruption of Bald buzzard, is adopted from the Count de Buffon, for this species. The several varieties build their nests chiefly among reeds and other marshy plants; they prey on water sowl, and on sishes, chiefly large ones, and even dive into the water after them; sometimes they perish in the attempt by fixing their talons into sishes of such strength as to carry them under water. This species is scarcely two feet long; a brown bar descends on each side, from the region of the eyes to the root of the wings; the tall quill feathers are barred, on the inner webs, with brown and white, except in the Carolina variety.

34. Mansfeny.-43. F. Aquila antillarum. 65.

Of a brown colour, with a black crown, and white belly.

Falco antillarum. Syst. nat. ed. Gm. i. 264. n. 65. Briff. orn. 104. n. 13. Lath. ind. orn. i. 19. n. 32.—Mansfeny. Raj. av. 19. n. 1. Hist. antill. ii. 252. Buff. oif. i. 144. Lath. fyn. i. 47. n. 27.

Inhabits the West India islands.—This species is scarcely bigger than a Hawk, but has much stronger legs and claws, and is allied to the Eagles in its general appearance and plumage; it preys on small birds and amphibious animals.

35. Chinese Eagle. - 44. F. Aquila sinensis. 66.

The cere and legs are yellow; the body is reddish brown above, and yellowish beneath.

Falco finensis. Syst. nat. ed. Gm. i. 264. n. 66. Lath. ind. orn. i. 13. n. 13.—Chinese Eagle. Lath. syn. i. 35. n. 11. t. 3.

Inhabits India and China.—This species is among the largest of the division; the bill and claws are large and black; the irides are brown; the crown is dusky; the coverts and quill feathers of the wings and the tail are marked with a dusky band.

36. Cheela Eagle. F. Aquila Cheela.

Of a brown colour, and having a flight crest; the coverts of the wings are spotted with white; the rump is white, and the tail is marked with a broad white band. Lath.

Falco Cheela. Lath. ind. orn. i. 14. n. 14.—Cheela Falcon. Lath. fyn. fup. 33.

Inhabits India.—This fpecies, though reckoned a Falcon by Mr Latham both in his Index and Synopfis, is placed among the Eagles on his authority, as he informs us that its fize is Aquiline, and as he places it among those species of the genus Falco which are reckoned Eagles by Dr Gmelin. The body is strongly made; the bill is blue, and the irides and legs are yellow.

37. Asiatic Eagle. - F. Aquila asiatica.

The legs are yellow and half downy; the body is brown above, and white beneath, the breaft being streaked; the tail quill feathers are filver grey, the external ones having five scarcely visible bands.

Falco afiaticus. Lath. ind. orn. i. 14. n. 15.—Afiatic Falcon. Lath. fyn. fup. 31. Vol. I. Rrr

81

Inhabits China.—This species is placed among the Eagles for the same reasons as the last. It is twenty-one inches long, and resembles the Buzzard, though larger: The bill is black; the wing quill feathers are grey, with black bands; the upper coverts of the tail are white: the legs are downy on their fore parts.

RAPACIOUS.

78 38. New-holland Eagle. -47. F. Aguila novae-hollandiae, 69.

Of a white colour, with yellow legs and cere; the back claw is twice the length of the rest.

Falco novae-hollandiae. Syst. nat. ed. Gmel. i. 264. n. 69. Lath. ind. orn. i. 16. n. 22.—Newholland white Eagle. Lath. fyn. i. 40. n. 18.

Inhabits New-holland .- Is about twenty inches long; the bill and claws are black, and the space round the eyes is yellow.

39. Urubutinga. -48. F. Aquila Urubutinga. 70.

The cere and legs are yellow; the body is brown; the wings are blackish, mixed with ash colour; the tail is white, having a black tip, which is speckled with white.

Falco urubutinga. Syft. nat. ed. Gm. i. 265..n. 70. Lath. ind. orn. i. 22. n. 43.—Aquila brafilienfis. Briff. orn. 128. n. 12.—Brafilian Eagle. Lath. fyn. i. 43. n. 25.—Urubutinga. Will. orn. 32. Id. angl. 64. Raj. av. 8. n. 9. Buff. oif. i. 141.

Inhabits Brafil.—Is about the fize of a half year old Goofe: The bill is large and black, and the eyes are large.

80 40. Pondicherry Eagle. - 49. F. Aquila ponticeriana, 71.

The cere is bluish; the legs yellow; the body chefnut coloured; the head, neck, and breast, are white; all the feathers have a longitudinal brown streak in the middle.

Falco ponticerianus. Syft. nat. ed. Gmel. i. 265. n. 71. Lath. ind. orn. i. 23. n. 46.—Aquila ponticeriana. Briff. orn. 129. n. 15.—Pondichery Eagle. Lath. fyn. i. 41. n. 21.—Aigle de Pondichery. Buff. oif. i. 136.—Aigle des Grandes Indes. Pl. enl. 416.—Aigle de Malabare. Eff. phil. 55.

Inhabits Malabar.—Is about nineteen inches long: The bill is ash coloured, with a yellow tip; the fix first quill feathers of the wings are black from the middle to the tips; the claws are black.

41. Equinoctial Eagle. - 50. F. Aquila equinoctialis. 72.

The legs are yellow; the head, neck, and back, are blackish brown; the breast is reddish; the shoulders and wing coverts are chocolate coloured; the tail is black, and its quill feathers, except the two middle ones, are each marked with the figure of the letter V. in white.

Falco equinoctialis. Syst. nat. ed. Gmel, i. 265. n. 72. Lath. ind. orn. i. 22. n. 42.—Equinoctial Eagle. Lath. fyn. i. 43. n. 25.

Inhabits Cayenne.—Is about twenty-one inches long: The bill and claws are pale horn colour, the latter being tipt with black. Mr Latham fays that the body is mixed black and rufty, and that its under parts are reddifh, having transverse brown streaks.

*** FALCONS AND HAWKS,-FALCONES.

The birds of this subdivision are less in size than the former, and their legs are univerfally naked.

The limits between the Falcons and Hawks, and the Eagles, are by no means well afcertained, but, in compliance with the authority of Dr Gmelin, the fubdivision is here preserved: It is extremely difficult, through the whole genus, to mark with accuracy the distinctions of species and varieties; as, besides the difference between the sexes of the same species, which is often very considerable, and the various appearances the same species puts on at different periods of life, they are very apt to change their appearances, and the colours of the seathers, and even of the cere, in consequence of the influence of climate, and by difference in the manner of seeding; hybrid generation is likewise a fertile source of variety through this genus, as well as in most parts of the class: All these concurrent causes of variation and obscurity produce considerable dubiety to the ornithologist, and must occasion the observations of different naturalists to disagree; but the following lift, it is hoped, will be found perhaps as perfect as the nature of the subject will admit.

The art of Falconry, or of training Hawks and Falcons to the chace of Antelopes, Cranes, Herons, Hares, Partridges, &c. which has been in all ages familiar among many of the Tartar and other nations, is, in Europe, entrusted to the care of particular people who have reduced it to a kind of science, being employed by the great to contribute to their amusement. Almost every species of the genus may be trained to this employment, though some species are more expert than others, and some are better adapted to particular kinds of sport, or to the chace of particular kinds of game. On this subject consult d'Esparon, Ars salconaria. Francos. 1617.

The English names used in this genus may appear less systematic than in most others, but in this I have chiefly followed the examples of Mr Latham and Mr Pennant, who have preserved very properly the usual names employed in England, and have affixed names to the foreign species as near as possible to those of the British kinds which they resemble the most. In general those named Hawks are smaller than such as are called Falcons, but this is not universally the case; perhaps it would have been better to have named them all Falcons, with a specific addition for each; but it is sometimes dangerous to depart too boldly from the track already followed by men of high and deferved reputation.—T.

1. Oriental Hawk .- 45. Falco orientalis. 67.

82

The legs are leaden coloured; the upper part of the body and the head are dusky brown, the space above the eyes being streaked with rust colour, and the lower part of the body mixed brown and rusty; the tail is spotted with white.

F. orientalis. Lath. ind. orn. i. 22. n. 44.—Oriental Hawk. Lath. fyn. i. 34. * n. 7. c.

Inhabits Japan.—Is feventeen inches long, of which the tail is eight: The bill is large, its upper mandible, and the claws are black, the lower mandible being yellow; the head is more dufky than the body; the plumage has a black streak in the middle of each feather; the secondary coverts of the wings are spotted with white.

Rrr 2

2. Indian Hawk .- 46. Falco indicus. 68.

The cere and legs are yellow; the forehead and rump are white; the body is rusty above, and rusty brown streaked with whitish on the belly; the tail is brown, with sive black bands.

F, indicus. Lath. ind. orn. i. 23. n. 45.—Javan Hawk. Lath. fyn. i. 34. * n. 7. d.

Inhabits Java.—Is about the fame fize with the preceding: The bill is yellow at the base, and black at the tip; the lower coverts of the wings are dirty reddish white, waved with rust colour; the wing quill feathers are transversely streaked and tipt with black; the coverts of the tail are dotted with white; the chin, throat, and breast are reddish brown; the claws are black. Mr Latham adds to this description, that the under sides of the wings are whitish waved with rusty, and that the naper of the neck is whitish.

84

3. Common Buzzard .- 51. Falco Buteo. 15.

The cere and legs are yellow; the body is brown, the belly being whitish, with largebrown spots. Scop. an. i. 15. n. 4.

F. Buteo. Lath. ind. orn. i. 23. n. 47.—Buteo. Briff. orn. 116. n. 32.—Buteo vulgaris. Gefn. av. 46. Aldr. orn. i. 369. f. p. 370. Raj. av. 16. A. I. Will. orn. 38. t. 6. I.—Bufe. Buff. oif. i. 206. t. 8. Pl. enl. 419.—Maafe Geyer. Gunth. neft. t. 50.?—Quidfogel. Faun. fuec. n. 60.—Pojana fecunda. Zinnan. 85. t. 14. f. 56.—Buzzard. Brit. 2001. i. 188. n. 54. t. 25. Arct. 2001. ii. 207. n. 103.—Common Buzzard. Will. orn. ang. 70. Alb. av. i. t. 1. Lath. fyn. i. 48. n. 28. fup. 14.

Inhabits Europe.—Is twenty inches long, and apt to vary in its colours from difference of age and fex; but in general the tail quill feathers are brown with darker bands, the bill is leaden coloured; the irides dusky, and the claws black; the eggs are mostly of a bluish white, with rusty brown spots, but are sometimes entirely whitish. This animal lives on birds, reptiles, small quadrupeds, and infects.

85

4. Greater Buzzard. - 52. Falco gallinarius. 73.

The cere and legs are yellow; the body is brown above, and reddish on the under parts; with oval brown spots; the tail is barred with brown.

F. Buteo major. Lath. ind. orn. i. 24. n. 47. γ .—Circus major, Gros Buzard. Briff. orn. 114. n. 28.—Hunnerhabicht, Hunergeyer. Frisch. av. t. 72.—Greater Buzzard. Lath. sýn. 1. 42.

86

β. Spotted Buzzard. - 52. β. F. gallinarius naevius.

Resembles the former, but the wings are more variegated.

F. Buteo varius. Lath. ind. orn. i. 24. n. 47. .—Circus varius. Brifl. orn. 116.—Accipiter stellarius. Frisch. av. t. 73.—Spotted Buzzard. Lath. syn. i. 49.

Inhabits Europe.—Both of these are considered as varieties of the Common Buzzard by Mr Latham; they measure from twenty to twenty-three inches long; the bill and claws in both are black, and the irides of an orange colour.

5. Jamaica Buzzard .- 53. Falco jamaicensis. 74.

The cere and legs are yellow; the body is of a brownish buff or cream colour, the under parts being spotted with a paler colour, and the crown of the head is pale.

F. jamaicenfis. Lath. ind. orn. i. 24. n. 49.—Jamaica Buzzard. Lath. fyn. i. 49. n. 30.

Inhabits, though rare, in Jamaica.—This is a beautiful bird, about the fize of, and having a general refemblance to the Common Buzzard, but with fhort legs: The bill and claws are black; the irides are yellow; the shafts of the feathers on the back, and of the tail quills, are brown in the middle.

88

6. American Buzzard. - 54. Falco borealis. 75.

The cere and legs are pale yellow; the body is brown on its upper, and white on its under parts; the tail is of a pale rust colour, having a transverse dusky or black narrow bar near the end.

F. borealis. Lath. ind. orn. i. 25. n. 50.—American Buzzard. Lath. fyn. i. 50. n. 31.—Redtailed Falcon. Penn. Arct. zool. ii. 205. n. 100.

Inhabits North America, particularly Carolina.—Is about the fize of the Common Buzzard: The bill and claws are dufky, or black; the chin is white, mixed with brown; the throat, belly, and breaft are paler than the back, or almost white, the breaft and belly being varied with long brown. longitudinal stripes, as are the thighs; the rump is white.

89

7. Rufous Buzzard. - 56. Falco rufus. 77.

The legs are yellow; the body is rufous or ruddy, the upper parts having a brownish tinge; the tail is ash coloured.

F. rufus. Lath. ind. orn. i. 25. n. 51.—Circus rufus. Briff. orn. 115. n. 30.—Harpage. Buff. oif. i. 217. Pl. enl. n. 460.—Fifchgeyer, Brandgeyer. Frifch. av. t. 78.—Harpy Falcon. Lath. fyn. i. 51. n. 32.

Inhabits France and Germany.—Frequents low places, especially near the banks of rivers, and preys on fish: Is about twenty inches long; the bill and claws are blackish, and the irides are fasfron co-loured.

90

8. Speckled Buzzard. - 57. Falco variegatus. 78.

The legs are yellow; the head and neck are whitish with rusty spots; the body is brown above and white beneath; the tail is dusky brown, with paler bands which cross each other.

F. variegatus. Lath. ind. orn. i. 24. n. 48.—Speckled Buzzard. Lath. fyn. i. 97. n. 83.—Buzzardet. Arct. zool. ii. 211. n. 109.

Inhabits North America.—Is fomewhat more than twelve inches long, and has a general refemblance to the Common Buzzard; perhaps it is fearcely different from the following.

ounces:

91

92

93

9. Whitish Buzzard .- 58. Falco albidus. 79.

The legs are yellow; the body is white, with large brown fpots; the tail is dusky, with streaks and specks of white.

Inhabits North America.—Dr Gmelin makes feparate fpécies of the two last birds, but with a note that he suspects them to be the same: Mr Latham makes only one species, and refers to both Dr Gmelin's as synonymes; while Mr Pennant points out a sufficient difference to constitute them separate varieties. The former is only twelve, while the latter measures sisten inches long: They refemble the Common Buzzard in general appearance, but the legs of the latter are proportionably longer; the bill and claws are blackish or dusky: In the latter, the lesser coverts of the wings are brown.

10. Honey Buzzard .- 59. Falco apivorus. 28.

The cere is black; the legs, which are fomewhat downy, are yellow; the head is ash coloured; the tail is brown, with two dusky or ash coloured bars, and is tipt with white.

F. apivorus. Lath. ind. orn. i. 25. n. 52.—Buteo apivorus. Briff. orn. i. 410. Raj. av. 16.—Bondrée. Buff. oif. i. 208. Pl. enl. n. 420.—Pojana. Zinnan. 84. t. 13. f. 75.—Slaghok. Faun. fuec. n. 65.—Honey Buzzard. Brit. 2001. i. n. 56. Arct. 2001. ii. 224. I. Will. orn. 72. t. 3. Albin. av. i. 2. t. 2. Lath. fyn. i. 52. n. 33. fup. 14. Lewin, brit. b. i. t. 1.—Froschgeyer. Kram. el. 331. n. 14.—Goiran. Belon, av. 101.—Muse-hoeg, Muse-baage. Brunnich. 5.

Inhabits Europe.—This species lives on mice, small birds, reptiles, particularly lizards and frogs, and on insects, especially bees, from which last circumstance it is named. It is almost two feet long, and weighs very near two pounds: The eggs are of a rusty colour, with darker coloured spots. A variety of this species is sometimes found, in which the coloured bars and white tip of the tail are wanting.

11. Moor Buzzard. - 60. Falco aeruginosus. 29.

The cere is greenish; the body is brownish grey; the crown of the head, chin, armpits *, and legs, are yellow.

F. aeruginofus. Lath. ind. orn. 25. n. 53.—F. baeticus. Gerin. orn. 61. t. 32. 33. 34.—Circus. Gefin. av. 49. Aldroy. orn. i. 351.—Circus palustris. Briff. orn. 115. n. 29.—Milvus aeruginofus. Aldroy. orn. i. 395. Raj. av. 17. Nozeman, nied. vog. t. 8. 9.—Hons-tjuf. Faun. suec. n. 66.—Busard. Buss. oif. i. 218. t. 10. Pl. enl. n. 424.—Faux perdrieux. Belon, av. 114.—Bozzagro. Cetti, uc. sard. 45.—Nibbio. Zinnan. 83. t. 13. f. 74.—Moor Buzzard. Brit. 2001. n. 57. Arct. 2001. ii. 225. L. Lath. syn. i. 53. n. 34. sup. 15. Lewin, brit. b. i. t. 8. Will. orn. ang. 75. t. 7. Albin, i. t. 3.

Inhabits Europe.—Lives much in marshy places, in which it builds its nest, and preys on aquatic birds, fish, and rabbits. This species measures twenty-one inches long, and weighs about twenty

^{*} By the armpits is meant to express, in one word, the space below the root of the wings answering to the hollow under the shoulder joint in man.—T.

ounces: It varies very much in colour, fome having the body of a chocolate or dark brown tinged rufty, and the crown of the head clay coloured; in fome the body is brownish rufty, with the crown and chin yellowish; and in a few the whole plumage is rufty brown without spot or variegation. The legs are long, slender, and yellow; the cere is either black or greenish; the eggs are whitish with brownish spots, sometimes entirely brown.

94

12. Sclavonian Buzzard. - Falco sclavonicus.

The cere is yellow; the legs and feet, except the toes, are downy; the body is of a brick dust red colour, with black spots; the head and neck verging towards whitish. Lath. ind. orn. i. 26. n. 54. Kram. el. 329. n. 10. It. poseg. 29.

Inhabits Sclavonia and Croatia.—Is about the fize of a common Cock: The bill is of a bluish black colour, having a yellow cere; the head, neck, and breast are of an ochreous, or dirty yellowish, white, with longitudinal black streaks or spots; the belly, especially its slanks, are black, sometimes only spotted with black; the wing quills are blackish, the primaries being broad at the origin of their webs, and growing narrow at the extremities; the secondaries are brown with black bands; the wing coverts are variegated with dull red and black spots; the tail is white on its farther half, growing brown at the end, and edged with dull red, some individuals having five blackish bands; the rump and ventlet are whitish, with a few brown and dull red spots; the legs are clothed with dull red plumage, which is irregularly streaked and spotted with black; the feet are yellow, and the irides are blackish. After giving this minute description, Mr Latham expresses a doubt that this bird may only be a variety of the Moor Buzzard.

95

13. Croatian Buzzard. - Falco marginatus.

The cere is bluish; the upper part of the body is variegated with brown and rusty, the lower parts being rusty with irregularly oval brown spots; the tail quills are barred with blackish, and edged on each side with white. Lath. ind. orn. i. 26. n. 55. It. posegan. 28.

Inhabits Sclavonia and Croatia.—Is about the fize of a common Hen; the plumage on the head and back is brown, the feathers being edged with ruft colour; the whole under part of the body is rufty, with longitudinally difposed brown spots of a somewhat oval shape, each of the feathers being rust coloured, having the shank and a small part of the web on each side brown; the whole quill feathers of the wings are brown, with several bands of a darker tint, and rusty white at the tips; the upper side of the tail is brown, the quill feathers having each four broad bars of blackish brown, and edged on each side with white; the tip of the tail is white; its under side is whitish, with bands of a clearer white; the legs and seet are yellow.

96

14. Rufty Buzzard .- Falco rubiginofus.

Of a brown colour on the upper parts; the under parts are whitish yellow, having a yellow spot on the breast; the tail quills have each four dull red bars. Lath. indorn. i. 27. n. 56. It. posegan. 29.

98

99

100

Inhabits Sclavonia.—The bill is black; the legs are yellow; the head is whitifh yellow, the cheeks being rusty; the upper parts of the body are brown, the tips of the wing covert feathers being whitish; the under parts of the body are whitish yellow, with a rusty yellow irregularly shaped spot on the breaft; the wing quill feathers are brown, their exterior webs being fomewhat hoary, and the interior having feveral white bars; the tail quill feathers are brown, with four brickdust-red bars on each.

15. Java Buzzard - 61. Falco javanicus. 80.

The cere is black, with a yellow middle; the legs are yellow; the head, neck, and breast, are chesnut coloured; the back is brown.

F. javanicus. Lath. ind. orn. i. 27. n. 58. Wurmb, in Lichtenb. magaz. iv. 2. 8.

Inhabits the coast of Java, and lives on fish.—This bird is here called a Buzzard, because placed, both by Dr Gmelin and Mr Latham, amid those species to which that name is given by the latter in his fynopsis.

16. Cinereous Buzzard. - 62. Falco cinereus. 81.

The cere and legs are bluish; the body is of a brownish ash colour, mixed with whitish, on the upper part; the eye brows are white with brown spots.

F. Buteo cinereus. Lath. ind. orn. i. 24. n. 47. 3.-F. freti hudsonis. Briff. orn. 103. n. 10.-Faucon de la baye d'hudfon. Buff. oif. i. 223.—Ash coloured Buzzard. Lath. fyn. i. 55. n. 35. Edw. av. t. 53.

Inhabits the country about Hudson's Bay in North America.—This bird resembles the Common Buzzard, but is larger, and is probably only a variety of that species: It preys much on partridges. The upper furface of the tail is cinereous brown, with transverse grey stripes; the under surface is cinereous, with white stripes; the irides are yellow; over each eye is a white line, called the eye-brow in the character for shortness, which is spotted with brown.

17. Streaked Buzzard. - 63. Falco lineatus. 82.

The cere and legs are yellow; the upper parts of the body are dusky brown; the under parts are reddish with white and pale rusty streaks; the tail quills are dusky brown, with dirty white tips, and having feven dirty white transverse bars.

F. lineatus. Lath. ind. orn. i. 27. n. 59.—Red-shouldered Falcon. Arct. zool. ii. 206. n. 102.— Barred-breafted Buzzard. Lath. fyn. i. 56. n. 36.

Inhabits Long Island in North America .- The bill is slender and dusky; the legs are slender, with black claws; the head and neck are yellowish white, longitudinally streaked with dusky; the sides of the back are rufty; the leffer coverts of the wings are rufty with black fpots; the wing quill feathers are black with white fpots; the breast and belly are pale reddish tawny, the former streaked longitudinally with black, the latter transversely with deep tawny. This species is about twenty-two inches long.

18. Leverian Falcon.—55. Falco leverianus. 76.

The legs are yellow; the head is variegated with alternate brown and white streaks; the body is brown above, and white below; the wings are dark brown.

BO1

102

103

F. leverianus. Lath. ind. orn. i. 18. n. 31.—Leverian Falcon. Arct. 200l. ii. 206. n. 101. Lath. fyn. fup. 31.

Inhabits Carolina.—Is about the fize of the Common Buzzard: The bill is dufky, and much hooked; the ends of the feathers on the upper part of the body have each a large white fpot; the outer quill feathers of the tail have each nine white and nine dufky transverse bars, the bars of the middle tail quills being alternately dufky and ash coloured, and all of them are tipt with white; the wings reach beyond the end of the tail.

19. Plain Falcon.-64. Falco obsoletus. 83.

Of a dark brown colour, spotted slightly with white on the under parts of the body; the middle tail quills are plain brown, the inner webs of the rest being mottled with white, and their exterior webs and ends slightly edged with white.

F. obsoletus. Lath. ind. orn. i. 28. n. 61.—Plain Falcon. Arct. zool. ii. 208. n. 104. Lath. syn. sup. 30.

Inhabits near Hudson's Bay.—Is two feet long; the head is dusky, the nape being spotted with white; the throat, breast, belly, and thighs are slightly spotted with white; the bill is black.

20. Collared Falcon. - 65. Falco rufticolus. 7.

The cere, eye-lids, and legs, are yellow; the back is waved with ash colour and white; the throat, under side of the neck and breast, are pure white, and a white collar almost surrounds the neck. Faun. succ. n. 56.

F. rusticolus. Lath. ind. orn. i. 28. n. 60. Faun. groenl. n. 34.—Collared Falcon. Lath. fyn. i. 56. n. 37. Arct. zool. ii. 222. G.

Inhabits Sweden, Siberia, and Greenland rarely.—Is about the fize of a common Hen: The bill is lead coloured, with a black tip; the head is broad, flat, and fireaked longitudinally with black and white; the cheeks are whitish; the belly is white, with a few finall dusky heart-shaped spots; the tail has twelve or thirteen transverse bars, alternately whitish and dusky; the exterior webs of the primary wing quill feathers are dusky; the claws are black.

21. New-zealand Falcon.—66. Falco novae-seelandiae. 84.

The cere and legs are yellow; the body is blackish brown, the under parts being spotted or streaked with dull red; the wings and tail are spotted with grey.

F. novae-zelandiae. Lath. ind. orn. i. 23. n. 62.—New-zealand Falcon. Lath. fyn. i. 57. n. 38... t. 4. fem.

105

106

107

Falcons.

The young birds are less or more variegated with white, and in some the tail wants the fpotted. bars.

RAPACIOUS.

22. Goshawk. - 67. Fálco palumbarius. 30.

The cere is black, edged with yellow; the legs are yellow; the body is brown; the tail quills are croffed with fainter bars; the eyebrows are white. Faun. fuec. n. 67.

F. palumbarius. Lath. ind. orn. i. 29. n. 65.—Accipiter palumbarius. Gefn. av. 51. Aldr. orn. i. 342. f. p. 343. Raj. av. 18. n. 1.—Afterias. Aldr. orn. i. 336. t. 340. 341.—Aftur. Briff. orn. 91. n. 3.—Autour. Buff. oif. i. 230, t. 12. Pl. enl. 418. 461.—Aftore. Cett. uc. fard. 48. Zinnan. uov. 87. t. 14. f. 77.—Groffer gesperberter falk, Groffer gespeilter falk. Frisch. av. t. 82. (inale) 81 (female). Falck, it. iii. t. 21.—Gofhhawk. Brit. zool. i. n. 52. Arct. zool. ii. 204. n. 99. Albin, ii. t. 8. Lewin, brit. b. i. t. 9. Lath. fyn. i. 58. n. 39. fup. 16.

Inhabits Europe, Afia, and North America.—This species is a great enemy to poultry, and is the best of all the genus for Falconry. It is about thirty-two inches long; the bill is blue with a black tip; the irides are yellow; the head is brown; the whole under parts of the body are white, waved with black; the tail is ash coloured, with a white tip, and is longer than to the tips of the wings; the claws are black: The eggs are bluish white. A variety of a larger fize is found in Siberia, on the Uralian mountains, of a white colour mottled with brown and yellow; and in Kamtschatka a variety is found entirely white.

23. Cayenne Falcon. - 68. Falco cayennensis. 85.

The legs are blue; the head and neck are of a bluish white; the back and wings are dark ash colour; the throat, breast, and belly, are whitish.

F. cayennensis. Lath. ind. orn. i. 28. n. 63.—Petit Autour de Cayenne. Buff. ois. i. 237. Pl. enl. 473.—Cayenne Falcon. Lath. fyn. i. 59. n. 40.

Inhabits Cayenne.—The bill is blue; the claws and primary wing quill feathers are black; the fecondaries are streaked with black; the tail has four or five alternate black and white transverse bars, and is white at the tip.

24. Long-tailed Falcon. - 69. Falco macrourus. 85.

The cere and legs are yellow; the bill is blackish; the body is ash coloured above and white below; the inner webs of the wing quills are ash coloured, and their ends white.

F. macrourus. Lath. ind. orn. i. 29. n. 64.—Accipiter macrourus. S. G. Gmel. it. i. 48. Nov. com. petr. xv. 439. t. 8. 9. Lepechin, it. i. 260.—Long-tailed Falcon. Lath. fyn. i. 59. n. 41.

Inhabits Ruffia.—Is about the fize of the Lanner, being one foot feven inches long, of which the tail measures nine inches; the bill is black, with a green base.

25. Gentil Falcon .- 70. Falco gentilis. 13.

The cere and legs are yellow; the body is ash coloured, with brown spots; the tail has four or five broad blackish bands. Faun. succ. n. 58. Scopol. an. i. 15. Ì.

109

IIIO.

III

F. gentilis. Lath. ind. orn. i. 29. n. 66. Gefn. av. 71. Aldr. orn. i. 481. Briff. av. i. 339.—Falco montanus. Raj. av. 13.—Gentil Falcon. Brit. 2001. i. n. 50. t. 21. 22. Arct. 2001. ii. 203. n. 98. Albin. av. ii. 4. t. 6. Will. orn. angl. 79. Lewin, brit. b. i. t. 11. Lath. fyn. i. 64. n. 48. fup. 17.

Inhabits the higher mountains of Europe, North America, and the country on the Wolga.—Lives much on partridges: This species is rather larger than the Goshawk; but those found in America are larger than those of Europe, being as far as two feet two inches long: The bill is dusky, or leaden coloured; the irides are yellow; the head and upper side of the neck are light rusty, with black streaks; the whole under part of the body is white, with dusky heart-shaped spots; the tail is dotted with white; the claws are black.

26. Common Falcon.—71. Falco communis 86.

The bill is bluish ash coloured, with a yellow cere; the legs and irides are yellow; the body is brown, the plumage being edged with rusty; the tail is barred transversely with darker brown.

F. communis. Lath. ind. orn. i. 30. n. 67.—Accipiter fuscus, Schwarzbrauner Falk. Frisch, av. t. 74.—Falco. Briss. orn. 92. n. 4.—Faucon. Buff. ois. i. 249.—Falcone. Cett. uc. fard. 36.—Common Falcon. Lath. syn. i. 65. n. 49.

Inhabits Europe, Afia, and America.—This fpecies is subject to great variety from age, fex, climate, and other circumstances; the best marked varieties are enumerated in the following list.

β. Yearling Falcon. -71. β. F. communis hornotinus.

Has an ash coloured tinge. Briss. orn. 93. n. 4. A. Lath. ind. orn. i. 30. n. 67. B.

Faucon fors. Buff. oif. i. t. 15. Pl. enl. 470.—Yearling Falcon. Lath. fyn. i. 65. n. 49. A.

This bird, as its name implies, is a young Falcon of a year old, and differs from the former in the brown being lighter or ash coloured.

2. Haggard Falcon: -71: β. F. communis gibbofus.

The back is fomewhat hunched. Raj. av. 14. n. 6. Briff. orn. 93. n. 4. B. Lath. ind. orn. is 30. n. 67. y.

Faucon haggard, Faucon boffu. Buff. oif. i. 254. t. 16. Pl. enl. n. 471.—Haggard Falcon. Will. orn. angl. 80. Lath. fyn. i. 66. n. 49. B.

This is an aged Common Falcon; the neck is fhortened, and finks down between the shoulders, giving an appearance as if the back were hunched, from which circumstance the name is derived.

8. White-headed Falcon.—71. 8. F. communis-leucocephalus.

The head, neck, and breast, are white, with small brown spots. Briss. orn. 93. n. 4. c. Lath. ind. orn. i. 30. n. 67. d.

Rauh-fuss geyer, Gelbraurner geyer. Frisch, av. t. 75.—White-headed Falcon. Lath. syn. i. 66. n. 49. c.

113

114

116

e. White Falcon .- 71. e. F. communis albus.

Is entirely white, with hardly visible yellow spots. Raj. av. 14. n. 7. Briss. orn. 94. n. 4. B. Lath. ind. orn. i. 31. n. 67. c.

Weisser falk, Weisser geyer. Frisch, av. t. 80.—White Falcon. Will. orn. 80. n. 7. Lath. syn. i. 66. n. 49. D.

This variety is found in China.

ζ. Black Falcon.—71. ζ. F. communis ater.

Is of an uniform brownish black colour.

F. niger. Briff. orn. 94. n. 4. E. Lath. ind. orn. i. 31. n. 67. 2.—F. columbarius, or Nebbi. Raj. av. 161. n. 5.—Faucon paffager. Buff. oif. i. 263. Pl. enl. n. 469.—Schwarzbrauner habicht. Frisch, av. t. 83.—Black Hawk, or Black Falcon. Edw. av. i. t. 4.—Black Falcon. Lath. syn. i. 67. n. 49. E.

n. Spot-winged Falcon.—71. n. F. communis naevius.

The wings are spotted.

F. maculatus. Briff. orn. 95, n. 4. F. Lath. ind. orn. i. 31. n. 67. n.—Spotted Falcon. Edw. av. i. t. 3.—Spotted-winged Falcon. Lath. fyn. i. 68. n. 49. F.

Is found in Hudson's Bay.—Mr Latham expresses a doubt whether the variety referred to in Edward's and his own synopsis of birds be the same with the one enumerated by Gmelin: He likewise refers to the same synonimes a third variety of the Peregrine Falcon. Ind. orn. i. 33. n. 72. y.

115 0. Brown Falcon.—71. 0. F. communis fuscus.

The upper part of the body is brown, with spots of a darker shade; the under parts are white, with brown spots, those on the breast being sharp pointed. Briss. orn. 95. n. 4. c. Lath. ind. orn. i. 31. n. 67. 9.

Braunfahler geyer. Frisch. av. t. 76.—Brown Falcon. Lath. fyn. i. 68. n. 49. g.

1. Red-spotted Falcon. - 71. 1. F. communis ruber.

Is spotted with red and black. Brist. orn. 96. n. 4. H.

F. rubens. Raj. av. 14. n. 10. Lath. ind. orn. i. 31. n. 67. 1.—Red Falcon. Will. orn. 81. n. 10. Lath. fyn. i. 69. n. 49. H.

117 2. Tawny Falcon.—71. n. F. communis indicus.

The body is of a reddish tawny on the under parts.

F. ruber indicus. Briff. orn. 96. n. 4. 1. Raj. av. 14. n. 11. Lath. ind. orn. i. 31. n. 67. z.—Red indian Falcon. Will. orn. 81. t. 9. Lath. fyn. i. 69. n. 49. 1.

Is found in India.—Is of a brown ash colour on the upper parts of the body; the quill feathers of the tail have black and ash coloured curved stripes or bars.

A18

λ. Italian Falcon.—71. λ. F. communis italicus.

The breast is yellow, with rusty spots; the extremities of the wings are spotted with white.

F. italicus. Jonst. av. 19. Briff. orn. 97. n. 4. K. Lath. ind. orn. i. 32. n. 67. 2.— Italian Falcon. Lath. syn. i. 70. n. 49. K.

The head and neck of this variety, according to Mr Latham, are tawny red with rufty ftreaks, and the breaft is tawny, with ash coloured minute dots.

119

μ. Arctic Falcon. - 71. μ. F. communis arcticus.

This variety is not described.

F. islandus. Briff. orn. 97. n. 4. L.—Iceland Falcon. Lath. fyn. i. 70. n. 49. L.

This last variety is omitted in Mr Latham's index, though enumerated in his fynopsis, as he probably considers it to be the same with one or other of the varieties of the following species.

₹20

27. Iceland Falcon.—72. Falco islandus. 87.

The cere and legs are yellow; the body is brown above, its lower parts being white with black heart-shaped spots; the tail is barred with white. Brunn. orn. bor. 2. n. 9.

121

β. White Iceland Falcon. -72. β. F. islandus albus.

Of a white colour, the upper parts being marked with minute black heart-shaped spots; the two middle tail quills are indistinctly barred with blackish. Brunn. orn. bor. 2. n. 7.

122

y. Spotted Iceland Falcon. - 72. y. F. islandus maculatus.

Of a white colour, having large black heart-shaped spots; all the tail feathers are barred with black. Brunn. orn. bor. 2. n. 8.

Inhabits Iceland.—This fpecies measures one foot nine inches long: The head is white, mixed with rusty; the back is dusky, each feather being whitish, with brown streaks, and edged with white; the tail is rounded at the end, and has about fourteen transverse bars, alternately brown and white; the claws are black, the back claw being remarkably long. Mr Latham refers the first variety to the Brown Gyrfalcon, and the other two to the White Gyrfalcon, which will be described afterwards.

123

28. Barbary Falcon. - 73. Falco barbarus. 8.

The cere and legs are yellow; the body is of a bluish colour variegated with brown spots, the breast having no spots; the tail is barred.

F. barbarus. Lath. ind. orn. i. 33. n. 71.—F. barbaricus. Briff. orn. 99. n. 6. A.—F. tunetanus. Aldr. av. i. 483. Raj. av. 14. n. 9.—Barbary Falcon. Will. orn. 81. Albin, av. iii. t. 2. Lath. fyn. i. 72. n. 51.

125.

126

127

Inhabits Barbary.—Is about feventeen inches long, and refembles the Lanner both in fize and colour; Dr Gmelin and Mr Latham fuspect this may only be a variety of the Peregrine Falcon: The bill is black; the irides are yellow; the wings are very flightly, if at all, spotted; the breast is yellowish white, verging towards blue; the belly is marked with oblong black spots; the tail has seven brown bars.

124. 29. Peregrine Falcon.—74. Falco peregrinus. 88.

The cere and legs are yellow; the body is ash coloured above, with brown bars, the under parts being dull reddish white with blackish lines; the tail is dotted with white:

F. peregrinus. Raj. av. 13. n. 1. Briff. orn. 98. n. 6. Lath. ind. orn. i. 33. n. 72. Ger. orn. i. 55. t. 23. 24.—Faucon pelerin. Buff. oif. i. 249. t. 16. Pl. enl. 430.—Peregrine Falcon. Brit. 2001. i. n. 48. t. 20. Arct. 2001. ii. 202. n. 97. Lewin, brit. b. i. t. 12. Lath. fyn. i. 73. n. 523. fup. 18. Will. orn. 76. t. 8.

β. Tartarian Peregrine Falcon.—74. β. F. peregrinus tartaricus.

The wings are rufous; the toes are remarkably long.

F. tartarius. Briss. orn. 100. n. 6. B. Lath. ind. orn. i. 33. n. 72. \(\beta\).—Faucon de Tartarie, ou de Barbarie. Bellon, ois. 116.—Tartarian Falcon. Lath. syn. i. 73. n. 52. A.

Inhabits Europe and the north of Asia and America.—This species is migratory, and it is suspected, by Dr Gmelin, that it may only differ from the Gentil Falcon, already described, in consequence of being of a different age. To the above two varieties of the Peregrine, Mr Latham adds a third, Ind. orn. i. 33. n. 72. γ . which seems to be the same already described as a variety of the Common Falcon, under the name of Spot-winged, F. No. 114. especially as the same synonimes are referred to in both cases.

30. Variegated Falcon. 75. Falco versicolor. 89.

The cere is yellow; the head and upper parts of the body are white, with light reddiffibrown spots; the under parts are white, the breast being marked with a few rusty spots.

F. versicolor. Lath. ind. orn. i. 33. n. 73.—Spotted Falcon. Brit. zool. n. 55. t. 26. Lewin, brit. b. i. t. 13. Lath. syn. i. 74. n. 53.

Inhabits England.—Is about the fize of the Common Buzzard: The bill is black; the wings are dufky, and barred with ash colour; the outer tail quills are barred with lighter and darker brown, the middle quills with white and deep brown; the rump is white; the legs are yellow and very strong.

31. Booted Falcon .- 76. Falco pennatus. 90.

The cere and legs, which are feathered to the toes, are yellow; the body is blackish brown above, varied with dirty grey; the under parts are yellowish brown, with blackish longitudinal streaks.

F. pennatus. Lath. ind. orn. i. 19. n. 34.—F. pedibus pennatis. Briff. orn. 120.—Faucon Pata-Briff. orn. 4to. vi. app. 22. t. 1.—Booted Falcon. Lath. fyn. i. 75. n. 55.

Its place unknown.—Is of the fame fize with the Common Gyrfalcon, measuring a little more than nineteen inches long; the bill is blackish; the head and scrag, or back of the neck, are tawny grey, with blackish lines; the eye-lids are yellow; the tail is brown, spotted with white at the edges, grey at the point, and blackish a little higher up; the claws are black.

128

32. Chocolate Falcon. - 77. Falco spadiceus. 91.

The cere is yellow; the whole body is a deep bay or chocolate colour, in some parts tinged with rusty; the primary wing quills are black, their exterior webs, towards the lower end, being pure white; the legs, feet, and toes, are feathered.

F. spadiceus. Forster, phil. trans. lxii. 281. Amer. catal. p. 9. Lath. ind. orn. i. 27. n. 57.—Chocolate Falcon. Forster, loc. cit.—Chocolate-coloured Falcon. Arct. zool. ii. 201. n. 94. t. 9. f. 2.—Bay Falcon. Lath. syn. i. 54. n. 34. A.—Placentia Falcon. Lath. syn. i. 76. n. 57. sup. 19.

I 29

B. White-rumped Chocolate Falcon .- 77. B. F. Spadiceus leucourus.

The rump is white.

White-rumped Falcon. Lath. fyn. i. 54. n. 34. B.

Inhabits Hudfon's Bay and Newfoundland.—This species preys much on birds of the duck genus; it sits on a rock by the side of the water, watches their rise from diving, and instantly pounces on them. It is about one foot ten inches long; the bill is black; the five outmost tail quills have their exterior webs dusky, and their inner webs blotched with black and white; the two middle tail quills are varied with black and ash colour; the white edges of the wing quill feathers, mentioned in the character, form a distinct white shield; the wings reach to the end of the tail; the toes are remarkably short.

130

33. St John's Falcon .- 78. Falco Sti johannis. 92.

The cere, and feathered legs, are yellow; the body is brown, marked on the back forag, fcapulars, and tail coverts, with oblique, black, and dirty white bars; the under parts are fparingly marked with white and yellowish spots; the tail is barred with ash colour and black, and has a white tip.

F. Sti johannis. Lath. ind. orn. i. 34. n. 74.—St John's Falcon. Arct. zool. ii. 200. n. 93. t. 9. f. 1. Lath. fyn. i. 77. n. 58.

Inhabits Hudson's Bay and Newfoundland.—Is one foot nine inches long: The head is deep brown, with a short dusky bill; the legs are clothed with feathers to the toes, which are very short and yellow.

131

The cere and legs are blue; the back, breast, and first coverts of the wings, are spotted with brown; the tail is marked with kidney shaped spots.

F. facer. Briff. orn. 98. n. 4. M. Raj. av. 13. n. 2.—Sacre. Will. orn. 77. Buff. oif. i. 246. t. 14. Lath. fyn. i. 77. n. 59.

Inhabits Europe and Tartary.—In Tartary this species is employed in hunting, being more particularly flown at the White Heron; it is remarkably hardy in bearing cold. The feet are feathered to the toes.

β. American Sacre. - 79. β. F. Jacer americanus.

132

134

135

The back, wing quills, and tail quills, are brown, with paler bars; the hind part of the head is mottled with white; the whole under fide of the body is white, each feather having a dufky fpot in the middle.

F. facer americanus. Lath. ind. orn. i. 34. n. 75. s.—Speckled partridge hawk, from hudfon's bay. Forster, phil. trans. lxii. 382.—Sacre. Arct. zool. ii. 202. n. 96.—American Sacre. Lath. syn. i. 78. n. 59. A. sup. 20.

Inhabits Hudson's Bay and other parts of North America.—Weighs two pounds and a half, and measures two feet long: It preys much on the White Grouse. The semale lays two eggs, in deserted places, in April or May, and the young are able to fly about the middle of June. The head is dusky brown, with a dusky bill, which is toothed on the upper mandible; the back is dusky brown; the scapulars, coverts, and primary wing quills are deep brown, elegantly barred transversely with white; the thighs are covered with very long brown feathers, spotted with white; the fore parts of the legal are feathered almost to the feet; the cere and legs are bluish.

133 35. Newfoundland Falcon.—80. Falco novae-terrae. 94.

The cere and legs are yellow; the hind head is rusty; the body is brown above, and rusty, with deeper blotches, below; the tail is crossed with four bars of lighter and deeper brown.

F. Novae-terrae. Lath. ind. orn. i. 34. n. 76.—Newfoundland Falcon. Arct. zool. ii. 201. n. 95. Lath. fyn. i. 79. n. 60.

Inhabits Newfoundland.—Is twenty inches long; the irides are deep yellow; the crown, back, fcapulars, and wing coverts are brown, edged with paler; the thighs are mottled ash, with round dusky spots, and having four large dark blotches near the knees; the legs are strong and feathered half way down to the feet.

36. Starry Falcon.—81. Falco stellaris. 95.

The legs are blue; the upper part of the body is blackish, with star like spots; the under parts are varied with black and white.

F. stellaris. Briss. orn. 103. n. 11. Lath. ind. orn. i. 35. n. 77.—F. cyanopus. Klein, av. 52. n. 18.—Blue-footed Falcon. Will. orn. 82. § 11.—Starry Falcon. Lath. syn. i. 79. n. 61.

Inhabits Europe.—Refembles the Peregrine Falcon in fize and general appearance, but the wings are shorter, and the tail is longer; the irides are golden yellow; the eggs are of a light reddish, with lighter spots.

37. Northern Falcon.—Falco hyemalis.

The cere and legs are yellow; the head and upper parts of the body are deep brown;

¥37

139

140

the under parts of the body are rufty brown with white bars; the tail has four brown bars, and is white at the end. Lath. ind. orn. i. 35. n. 78.

F. hyemalis. Syft. nat. ed. Gm. i. 274. n. 96. and 96. s.—Northern Falcon. Lath. fyn. i. 79. n. 62.—Winter Falcon. Arct. zool. ii. 209. n. 107.

Inhabits New-York during winter.—The female, which is the Winter Falcon of the Arctic zoology, has the under parts of the body white, with heart-shaped brown spots, and the scrag is streaked with white. In the male the fcrag is whitish, the body is flender, and the legs are long. This species is about the fize of the Ring-tail Hawk, being about eighteen inches long.

38. Rhomboidal Falcon.—Falco rhombeus. **1**36

The legs are yellowish; the body is grey on the upper, and brown, with rhombic spots, on the lower part; the tail quills have eleven oblique black bars. Lath. ind. orn. i. 35. n. 79. Syn. fup. 35.

Inhabits near the Ganges, and other parts of India.—Is nineteen inches long; the head and back of the neck are black; the bill is dufky or leaden coloured; the back, wings, and tail are grey, with black bars.

39. Black-necked Falcon. - Falco nigricollis.

The legs are yellow; the body is reddish with black bars; the crown and neck are streaked with black; the throat is black; the tail quills are blackish at the end. Lath. ind. orn. i. 35. n. 80. Syn. fup. 30. 100.

Inhabits Cayenne.—The bill is black; behind each eye is a black ridge.

40. White-necked Falcon.—Falco albicollis. 138

The legs are yellow; the head, neck, fore part of the back, the breaft, and belly, are white; the wings are black with white spots; the feathers of the interscapulary region are marked with square black spots. Lath. ind. orn. i. 36. n. 81. Syn. sup. 30. 101.

Inhabits Cayenne.-Is about one foot ten inches long: The black quill feathers of the wings are fpotted on the infide with white from their origin to the middle.

41. Red-headed Falcon. - Falco meridionalis.

The cere and chin are yellow; the head and neck are rufous, with black or dark brown streaks; the belly is whitish, with narrow black bars; the four middle tail quills have each one, and the outer ones each fix, pale bars. Lath. ind. orn. i. 36. n. 82. Syn. fup. 33. 107.

Inhabits Cayenne. - This species measures nineteen inches in length.

42. Crested Falcon. -83. Falco cirrhatus. 97.

The cere and legs, which are feathered, are yellow; the head is furnished with a tuft, Vol. I. Ttt or

Falcons. 310

or crest, which hangs backwards; the body is black on its upper, and streaked withblack and white on its under parts.

F. cirrhatus. Lath. ind. orn. i. 36. n. 83.-F. indicus cristatus. Briss. orn. 104. n. 12.-F. indicus cirrhatus. Raj. av. 14. n. 12. Faucon liuppé, des indes. Buff. o.f. i. 271. n. 4. Crefted indian Falcon. Will. orn. 82. n. 12. Lath. fyn. i. 80. n. 63. fup. 20.

Inhabits India.—About the fize of the Goshawk: The bill is dusky blue; the irides are yellow; the fcrag is tawny; the tail is transversely barred with black and ash colour; the claws are black.

43. Pied Falcon. -84. Falco melanoleucos. 98.

141

142

The legs are yellow; the head, neck, back, shoulders, and wing quills, are black; the under parts of the body, the wing coverts, and the tail, are white.

F. melanoleucos. Penn. ind. zool. 4to. p. 12. t. ii. Lath. ind. orn. i. 36. n. 85.—Faucon à collier, des indes. Sonner. voy. ii. 182.-Black-and-white Falcon, Kaloe Koeroelgoya, of the Cingalese: Penn. ind. zool. loc. cit.—Black-and-white indian Falcon. Lath. fyn. i. 81. n. 65. fup. 20.

Inhabits Ceylon and India.—This is a finall fpecies, weighing only ten ounces, and measuring fixteen inches long: The bill, claws, and the middle wing coverts are black; the irides are reddifh yellow; the eyes are furrounded with white dots; the legs are flender. This species lives on mice, rats, and lizards. The female is grey, the wing coverts being marked with three black fpots; the fides of the belly, the thighs, and under fide of the rump are white, with reddiff streaks. Lath.

44. Ceylonese Falcon.—85. Falco ceylanensis. 99.

The cere is yellow; the body is milk white; the hind head has two long pendent feathers.

F. ceylanenfis. Lath. ind. orn. i. 36. n. 84.—Ceylonefe crefted Falcon. Lath. fyn. i. 82. n. 66. Inhabits Ceylon.—The bill of this species is dusky.

45. Grey Falcon. -- 86. Falco grifeus. 100. 143

The cere and legs are yellow; the body is dusky grey above, and white, with oblong black fpots, below; the tail is long, its two middle quills being longer, and of an uniform colour, and the rest spotted.

F. grifeus. Lath. ind. orn. i. 37. n. 86.—Grey Falcon. Brit. 2001. 1. n. 49. Lewin, brit. b. i. t. 15. Lath. fyn. i. 82. n. 67.

Inhabits Europe.—One individual was shot in Yorkshire in 1762. It is about the fize of a Raven. The bill is strong, short, much hooked, and bluish; the cere, and edges of the eye-lids are yellow; the irides are red; the head is finall, flatted at the top, the fore part deep brown, the hind part white, the fides and throat cream coloured; the wings are longer than the tail; the first quill feathers are black, with a white tip, the rest being bluish grey, having their inner webs irregularly spotted with white; the legs are long, naked, and yellow.

F45

146

147

46. Brown Gyrfalcon. -87. Falco Gyrfalco. 27.

The cere is blue; the legs are yellow; the body is brown, the lower parts being marked with brown bars; the sides of the tail are white. Faun. suec. 64.

F. Gyrfalco. Lath. ind. orn. i. 32. n. 68.—Gerfalco islandus. Briss. orn. 108. Brun. orn. bor. n. 9. Muller. n. 73.—Gerfault d'island. Buff. ois. i. 239. t. 13. Briss. 4to. orn. i. 373. A. t. 31-Pl. enl. 210.—Iceland Falcon. Gent. magaz. 1771. 297. fig. Lath. syn. i. 71. n. 50. B. parag. 2.—Brown Jerfalcon. Lath. syn. i. 82. n. 68-

Inhabits Europe, particularly Iceland.—Lives on herons, cranes, and pigeons: This bird has fometimes blue legs; the bill is ftrong, much hooked, and its upper mandible is fharply angulated at its edges; the head is pale rufty, ftreaked longitudinally with dufky; the neck, breaft, and belly are white, with heart-shaped spots; the thighs are white, with deep brown short cross bars; the back and wing coverts are dusky or brown, with white spots and edges to the feathers; the exterior edges of the primary wing quills are dusky, mottled with reddish white, the inner being barred with white; the tail quills are crossed with fourteen or more narrow bars, alternately white and dusky.

47. White Gyrfalcon. - 88. Falco candicans, 101.

The cere and legs are bluish ash; the body is white with dusky bars, lines, or spots.

F. islandus. Lath. ind. orn. i. 32. n. 69.—Gyrfalco. Aldr. orn. i. 471. t. p. 473. Raj. av. 13. n. 3.—Accipiter muscoviticus. Ger. orn. i. 60. t. 30.—Gerfault. Briss. orn. i. 370. n. 19. t. 30. f. 2. Buff. ois. i. 239. t. 13. Pl. enl. 215. (446? 462?)—Gerfalcon. Will. orn. 78. n. 3.—Gyrfalcon. Brit. 2001. n. 47. Arct. 2001. ii. 221. F. Lewin, brit. b. i. t. 16.—White Jerfalcon. Lath. syn. i. 83. n. 69. sup. 21.

β. Iceland Gyrfalcon.—88. β. Falco candicans islandicus.

The upper parts of the body are brown, the back and wings being spotted with white; the under parts are white, with black spots.

Gerfault d'island. Briss. orn. i. 373. t. 31.—Iceland Jerfalcon. Lath. syn. i. 84. n. 69. A.—Dusky Falcon? Arct. zool. ii. 220. F.

Inhabits Iceland, and the north of Scotland rarely.—Is about the fize of the Goshawk, and is reckoned, especially in Denmark, the best kind of Falcon for game, being reserved in Iceland for the use of the king, and bought, particularly the white variety, at a high price. The bill is strong, much hooked, of a blue-ash colour, and black at the tip; the claws are leaden coloured; the orbits and irides are blue: The irides of the Iceland variety are yellow.

48. Surinam Falcon.—89. Falco sufflator. 17.

The cere and legs are yellow; the body is whitish brown; the eyelids are bony.

F. fufflator. Lath. ind. orn. i. 37. n. 87.—Surinam Falcon. Lath. fyn. i. 85. n. 70.

Inhabits Surinam and Cayenne.—When irritated or frightened, we are informed, by Mr Rolander, that this species has the power of inflating the skin of the head till it equals the rest of the body in

Ttt2

RAPACIOUS. Falcone.

150

fize. On the upper part of the body the plumage is brown, the bases of all the feathers being white; the under parts of the body and the tail quills are yellow, spotted with white and brown; the nostrils have a sleshy lobe between them.

148 49. Laughing Falcon.—90. Falco cachinnans. 18.

The cere and legs are yellow; the eyebrows are white; the body is varied with brown and whitish; the crown is white, and surrounded with a black circle.

F. cachinnans. Lath. ind. orn. i. 37. n. 88.—Laughing Falcon. Lath. fyn. 1. 85. n. 71.

Inhabits South America.—This species is reported, by Mr Rolander, to emit a kind of laugh when any person looks at it: The upper parts of the body, the back, wings, and rump are brown; the neck, chin, breast, belly, and under surface of the wings are white; the tail is barred with black and yellow.

50. Streaked Falcon.—Falco melanops.

The cere and legs are yellow; the body is black, with white spots; its under side is white; the head and neck are white, with black streaks; the space round the eyes is black; the tail quills are black, having a white band in the middle. Lath. ind. orn. i. 37. n. 89. Syn. sup. 34. 109.

Inhabits Cayenne.—This species is about the size of a Rook, being fifteen inches and a half long. The black space round the eyes is of an oval form, growing narrow and pointed at its back part.

51. Notched Falcon. - Falco bidentatus.

The bill is brown, having two tooth-like processes; the body is leaden coloured; the breast and belly are reddish; the ventlet is white; the wing quills have each several, and the tail quills each three white bars. Lath. ind. orn. i. 38. n. 9. Syn. sup. 34. 110.

Inhabits Cayenne.—Is fourteen inches long: The bars on the outer webs of the tail quills are pale brown, but on the inner webs they are white.

52. Common Lanner.—91. Falco Lanarius. 24.

The cere is yellow; the legs and bill are blue; the under fide of the body is marked with longitudinal black fpots. Faun. fuec. n. 62.

F. Lanarius. Lath. ind. orn. i. 38. n. 92.—Lanarius. Gefn. av. 76. Aldr. orn. i. 488. Raj. av. 15. n. 13. Briff. orn. 105. n. 16.—Lanier. Buff. oif. i. 243.—Lanneret. Albin. av. ii. t. 7.—Lanner. Brit. 2001. n. 51. t. 23. Arct. 2001. ii. 225. K. Will. orn. 82. n. 13. Lewin, brit. b. i. t. 17.—Brown Lanner. Lath. fyn. i. 86. n. 72. fup. 21.

Inhabits Europe, the Uralian, Baraba, and Tartarian deferts, Iceland, Feroe, and Sweden, and is rarely found in Britain.—This species, which is about the fize of the Common Buzzard, is much esteemed in Falconry; it builds its nest on low trees, and is migratory: The legs are short; the cere is sometimes bluish; the breast is white tinged yellow, with brown spots; the primary wing quills

and the tail are dufky, the latter being marked on both webs, and the former only on the inner webs with oval rufty fpots; there is a white line over each eye. In the female, the fpots on the tail and wings are whiter than on the male.

I 52

₹53

X54

155

B. White Lanner.—Falco Lanarius albicans.

The cere and legs are yellow; the under parts of the body are whitish; the wing quills are blackish.

E. albieans. Syft. nat. ed. Gm. i. 276. n. 102. Lath. ind. orn. i. 38. n. 93.—Lanarius albieans. Briff. orn. 107. n. 18. Aldr. orn. i. 380. f. p. 181.—White Lanner. Lath. fyn. i. 87. n. 73.

y. Spot-tailed Lanner. - Falco Lanarius celiurus.

The two middle tail quills are grey, the rest being spotted with white. Syst. nat. ed. Gmel. i. 276. n. 102. B. Aldr. orn. i. 380. f. p. 183.

Inhabits Europe.—These two varieties are placed as a distinct species by Dr Gmelin, though he at the fame time expresses his belief that they do not effentially differ from the Common Lanner.

53. Blue Hawk .- 93. Falco cyaneus. 10.

The cere is white; the legs are tawny; the body is of a hoary blue colour; over each eye is a white arched line, which likewise surrounds the chin.

F. eyaneus, mas. Lath. ind. orn. i. 39. n. 94.—Lanarius einereus. Briff. orn. 106. n. 17.—Oifeau S. Martin. Buff. oif. i. 212. Pl. enl. n. 459.—Blue Hawk. Edw. av. v. 33. t. 225.—Henharrier. Brit. 2001. n. 58. t. 28. Lewin, brit. b. i. t. 18. Hayes, brit. b. t. 1. Will. orn. 72. Albin, ii. t. 5. Lath. fyn. i. 88. n. 74. fup. 22.—Grau-weisse Geyer. Frisch. av. t. 79. 80.

Inhabits Europe and Africa.—This species is frequently found in Britain on heathy and marshy moors; it is about feventeen inches long, weighing about twelve ounces, and the wings meafure three feet two inches between their tips, when extended; it preys on small birds and lizards, and is deftructive to poultry: The bill is black, and the cere, which is usually white, is sometimes yellow; the irides are yellow; the hind head is white, with pale brown fpots; the breast and belly are white, the former being streaked with dusky; of the tail quill feathers the two middle ones are grey on both webs, while the rest are grey on their outer and white on their inner webs, and all are streaked with dusky.

54. Ring-tail Hawk .- 94. Falco pygargus. 11.

The cere and legs are yellow; the body is ash coloured, the belly being paler, with oblong reddish spots; the orbits are white. Seop. an. i. 14.

F. eyaneus, fem. Lath. ind. orn. i. 39. n. 94.—F. torquatus. Briff. av. i. 345.—Pygargus. Alb. av. ii. t. 5. and iii. t. 3. Will. orn. t. 7. Raj. av. 17. n. 5.—Subbuteo. Gefn. av. 48.—Soubufe. Buff. oif. i. 215. t. 9. Pl. enl. 443. 480.—Ring-tail. BRIT. 2001. n. 59. Will. orn. 72. Lewin, brit. b. i. t. 18. F. Hayes, brit. b. t. 2. Lath. fyn. i. 89. n. 75. fup. 22.

Inhabits Europe and the temperate regions of Siberia.—Is about nineteen inches and a half long; the bill is pale; the irides are yellow; the tail is longifh, is barred with dufky and dotted with white. On the male the under parts of the body have transverse spots, which are ranged longitudinally on the female. Mr Latham considers this species as the semale of the one immediately preceding.

514

156

157

158

55. Hudson's Hawk .- 95. Falco hudsonius. 19.

The cere and legs are yellow; the back is brown; the eyebrows are white; the wings have each a bluish shield.

F. hudfonius. Lath. ind. orn. i. 40. n. 94. 8.—F. pygargus canadenfis. Ger. orn. i. 66. t. 44.— Accipiter freti hudfonus. Briff. av. 6. app. 18.—Ring-tail Hawk. Edw. av. t. 107.—Ring tail Falcon. Arct. 2001. ii. 209. n. 106.—Hudfon's Bay Ring-tail. Lath. fyn. i. 91. n. 76.—White-rumped bay Falcon. Lath. fyn. i. 54. n. 34. B.

Inhabits the country about Hudson's Bay.—This species is one foot nine inches and a half long: The bill and claws are black; the under parts of the body are white, with reddish brown spots; the two middle tail quills are brownish, or dusky, the outmost are white, and the rest are bluish ash, the whole having transverse orange-brown bars; the legs are long and very slender; the rump is white, both above and below, encircling the tail. This bird has the same manners with the Blue Hawk; it skims along the ground, in scarch of mice, frogs, and small birds, and builds sometimes on the lower parts of trees, and sometimes on the ground: It is sometimes found of a deep rust colour, entirely plain except the rump and tail.

56. Scarlet Hawk - 96. Falco Buffoni. 103.

The cere is blue, and the legs yellow; the upper part of the body is fearlet; the under parts are reddish buff colour; the eyebrows are yellow; the tail is barred with pale and dusky brown.

F. Buffoni. Lath. ind. orn. i. 40. n. 94. 7.—Cayenne Ringtail. Lath. fyn. i. 91. n. 76. A.

Inhabits Cayenne.—Is two feet long: The bill and claws are black; the inner webs of the primary wing quills are dufky, the outer webs being bluish ash colour, with dufky bars; in the secondary quills these are less evident; the whole wing quills are white at the tips.

57. Marsh Hawk.—97. Falco uliginosus. 104.

The cere and legs are orange coloured; the body is brown above, and the under parts are bright rufty; the tail has four transverse black bars.

F. uliginofus. Lath. ind. orn. i. 40. n. 95.—Marsh Hawk. Arct. zool. ii. 208. n. 105. Lath. fyn. i. 90. n. 75. A. Edw. av. iv. t. 291.

Inhabits Jamaica and Penfylvania.—In the latter country it is found only in fummer, frequenting marfhy places, where it preys on finall birds, frogs, ferpents, and lizards, and migrates in winter: It is two feet long; the bill is bluifh; the orbits are orange-coloured, with hazel irides; a black line extends from the angle of the mouth to beyond the eyes, above which a white line furrounds the cheeks, and meets with one from the opposite side at the back of the neck; the head, neck, and upper part of the breast are varied with black and rusty; the coverts of the wings are brown; the legs are strong, thick, and short.

Falcons.

₹ 60

161

162

Dr Gmelin remarks in this place that this and the three species immediately preceding, No. 155. 156. 157. are very strongly connected together; they are considered, in some measure, as varieties of the same species by some authors, particularly by Mr Latham, who gives the general name of Ringtail to them all.—T.

58. Stone Falcon.—98. Falco Lithofalco. 105.

The cere is yellow; the body is ash coloured on the upper, and reddish, with longitudinal brown spots, on the lower parts; the tail is ash coloured, blackish towards the tip, and terminated with white.

F. Lithofalco. Lath. ind. orn. i. 47. n. 115.—Lithofalco. Briff. orn. 101. n. 8.—Lithofalco, f. Dendrofalco. Raj. av. 18. n. 8.—Rochier. Buff. oif. i. 286. Pl. enl. 447.—Stone Falcon, or Tree Falcon. Will. orn. 80. Lath. fyn. i. 93. n. 77.

Inhabits Europe.—Is about the fize of the Common Kestril, being very little more than a foot long; the bill is bluish ash; the irides are yellow; the two middle tail quills are uniformly ash coloured, but the rest are barred with black.

59. Mountain Falcon.—99. Falco montanus. 106.

The legs are yellow; the upper part of the body is a brown ash colour; the chin and throat are spotted with whitish; the tail is ash coloured at the base, blackish in the middle, and white at the tip.

F. montanus. Raj. av. 13. n. 4. Briff. orn. 101. n. 9. Klein, av. 52. n. 10. Lath. ind. orn. i. 48. n. 116.—Mountain Falcon. Will. orn. 78. Lath. fyn. i. 93. n. 78.

β. Ash-coloured Mountain Falcon. -99. β. F. montanus cinereus.

The body is ash coloured above, and pure white beneath; the two outer tail quills are white. Lath. ind. orn. i. 48. n. 116. s. Briff. orn. 102. n. 9. A.

F. montanus fecundus. Will. orn. t. 9.—Afli-coloured Mountain Falcon. Lath. fyn. i. 94. n. 78. A.

Inhabits Europe.—This species is a little smaller than the Peregrine Falcon, and is suspected by Dr Gmelin to be only a variety of the Tree Falcon. The spots on the neck are sometimes rusty, and sometimes black, and sometimes the neck and breast are entirely black; in the full grown adult the head is black. The Ash-coloured variety measures one foot nine inches long; its bill and claws are black; the irides are yellow; the under parts of the body are pure white.

60. Common Kestril.—100. Falco Tinnunculus. 16.

The cere and legs are yellow; the back and wings are purplish red, dotted with black; the breast is streaked with brown; the tail is rounded. Scopol. an. i. 16.

F. Tinnunculus. Lath. ind. orn. i. 41. n. 98.—Tinnunculus, Cenchris. Gefn. av. 54. Aldr. orn. i. 356. t. p. 358. 359. Raj. av. 16. n. 16. Briff. av. i. 393. n. 27.—Crefferelle. Buff. oif. i. 280. t. 18. Pl. enl. n. 401. 471.—Gheppio. Cetti, uc. fard. 47. Zinnan, uov. 88. t. 15. f. 78.—Rother falk,

falk, and Rothel geyer. Frisch. av. t. 84. 85.—Kestrel, Kestril, Stannel, or Windhover. Brit. zool. n. 60. Arct. zool. ii. 226. M. Will. orn. 84. t. 5. Sloan, jam. 294. Albin, iii. t. 5. 7. Lewin, brit. b. i. t. 19. male, and t. 19. F. fem. Hayes, br. b. t. 4. Lath. syn. i. 94. n. 79.

In the *male* the crown and tail are light grey, the latter having a black bar near the end: In the *female* the head is reddifh, the crown being ftreaked with black; the back, wing coverts, and tail are rufty, with black bars. The male weighs fix ounces, and the female eleven.

β. Grey Kestril. — 100. β. F. Tinnunculus griseus.

The plumage is grey. S. G. Gmel. it. 49. t. 10. Lath. ind. orn. i. 42. n. 98. \$. Syn. i. 95. n. 79. B.

y. Lark Kestril.—100. y. F. Tinnunculus alaudarius.

Of a reddish colour, streaked with brown, the under parts marked with longitudinal brown spots; the tail is reddish grey, streaked transversely with brown, the quills being blackish toward the ends and tipt with white. Lath ind. orn. i. 42. n. 98. 7.

Accipiter alaudarius. Briff. orn. 110. n. 22. — Maeufe falk. Frifch. av. t. 88. — Lark Hawk. Lath. fyn. i. 95. n. 79. A.

Inhabits Europe, Siberia, and Tartary.—Is found about old buildings, and preys on fmall birds, mice, and infects: It migrates into Sweden and other parts of the north in the early part of fpring, along with the White Wagtail: Formerly this species was trained for catching partridges and other-fmall birds.

165 61. Bohemian Hawk.—101. Falco bohemicus. 107.

The legs are yellowish; the body is ash coloured on the upper, and white on the lower parts; the orbits are white; the outer webs of the five outmost wing quills are black.

F. bohemicus. Lath. ind. orn. i. 43. n. 100.—Maeuse habicht, Missylauce. J. Meyer, boehm. abhandl. vi. 313.

Inhabits the mountains of Bohemia.—This species scarcely exceeds a foot in length; it goes abroad only in the evening in search of mice: The bill is yellow near the angle of the mouth; the irides are yellow; the tail is long and pointed; the legs are thickish and feathered below the knees; the claws are black and rounded.

166 62. Fishing Falcon,—102. Falco piscator. 108.

The legs are brown; the plumage of the head is longish and ash coloured; the upper parts of the body are ash coloured, the under parts are pale yellowish white; the upper surface of the tail is light brown, its under surface a bluish ash.

F. pifcator. Lath. ind. orn. i. 43. n. 101.—Faucon pecheur. Dampier, voy. iii. 318.—Faucon pecheur de Senegal, ou Tanas. Buff. oif. i. 275. Pl. enl. 478.—Fifhing Falcon. Lath. fyn. i. 95. n. 80.

Inhabits Senegal.—This fpecies lives by catching fifth, which it tears to pieces before fwallowing them. The bill and irides are yellow; the feathers on the upper parts of the body are edged with rufty brown; those of the under parts are spotted on the middle with brown.

¥67

1168

469

170

63. Brown Hawk .- 103. Falco badius. 109.

The legs are pale yellowish; the head and upper parts of the body are brown; the under parts are white with small semilunar yellow spots; the tail is pale brown, with four darker stripes.

F. badius. Lath. ind. orn. i. 43. n. 102.—Brown Hawk. Brown, illust. 6. t. 3. Lath. fyn. i. 96. n. 81.

Inhabits Ceylon.—Measures thirteen inches long: The bill is blue, with a black tip; the irides are yellow; the feathers of the wing coverts are edged with white; the shoulders are spotted with white; the claws are black.

64. Aquiline Falcon.—104. Falco aquilinus. 110.

The cere and legs are yellow; the upper part of the body is blue; the under parts are reddish white; the neck is purplish red.

F. formosus. Lath. ind. orn. i. 38. n. 91.—Petite aigle d'amerique. Buff. ois. i. 142. Pl enl. n. 417.—Red-throated Falcon. Lath. syn. i. 97. n. 82. sup. 26.

Inhabits South America.—Is from fixteen to eighteen inches long. This species has some affinity to the Vultures, as the sides of the head are downy, being scarcely covered with feathers; the eyelids are bristly; the bill is blue; the orbits are yellow; the irides are orange coloured; the claws are black. The female is twenty-three inches long; her body is blackish blue; the throat is dark purple; the hind part of the belly and the thighs are white.

65. American Hawk.—105. Falco fuscus. 111.

The cere is ash coloured; the legs are yellow; the body is waved with black, being brown ash on the upper, and whitish on the under parts.

F. fuscus. Lath. ind. orn. i. 43. n. 103. Miller, illust. t. 18.—American brown hawk. Lath. syn. i. 98. n. 84.

Inhabits America.—This is about the fize of the Sparrow Hawk, which it likewise resembles in general appearance; the bill is of a light leaden colour; the crown and sides of the head are streaked longitudinally with white; the belly is reddish brown; the tail is brownish ash, with three transverse dusky brown bars, and pale at the tip; the claws are black.

66. Sparrow Hawk .- 106. Falco Nisus. 31.

The cere is green; the legs are yellow; the belly is white, waved with grey; the tail is barred with blackish. Scop. an. i. 17.

F. Nisus. Lath. ind. orn. i. 44. n. 107.—Accipiter. Brist. orn. 89. n. 1.—Accipiter fringillarius. Gesn. av. 51. Aldr. orn. i. 344. t. p. 346. 347. Bellon, av. 19. b. Raj. av. 18.—Nisus striatus, and Nisus sagittatus. Frisch, t. 90. 91. 92.—Moscheutus. Aldr. orn. 345.—Epervier. Bust. ois. i. 225. t. 11. Pl. enl. n. 412. 466. 467.—Sparviere. Cett. uc. sard. 51.—Sparshok. Faun. suc. n. 68. Muller, n. 71. Strom. 235.—Sperber. Gunth. nest. t. 6. Sparrow Hawk. Brit. 2001. n. 62. Arct. 2001. ii. 226. N. Alb. av. iii. t. 4. and i. t. 5. Lewin, brit. b. i. t. 20. and t. 3. f. 2. Will. orn. 86. Lath. syn. i. 99. n. 85. sup. 26.

Vol. I.

173.

174

171 β. Spotted Sparrow Hawk.—106. β. F. Nisus maculatus.

The back has a few white spots.

F. nisus maculatus. Lath. ind. orn. i. 45. n. 107. s.—Accipiter maculatus. Briss. orn. 90. A.—Spotted Sparrow Hawk. Lath. syn. i. 100. n. 85. A.

y. White Sparrow Hawk.—106. y. F. Nisus lacteus...

The whole body is of an uniform milk white.

F. Nisus lacteus. Lath. ind. orn. i. 45. n. 107. y.—Accipiter lacteus. Briss. orn. 90. B.—White Sparrow Hawk. Lath. syn. i. 100. n. 85. B.

Inhabits Europe, Asia, Africa, and Madeira.—This species is found very far north; it is very bold, and preys on poultry, partridges, pigeons, and small birds; it is very much addicted to fly after larks, and is employed in falconry for that species of game. The male measures twelve, and the female sifteen inches long: The bill is bluish; the head, back; wing coverts, and tail, are sometimes bluish grey, at other times deep brown edged with rust colour; in the male the bluish or dove-like colour prevails; the chin, breast, and belly are whitish yellow, which is darker on the male, with dark brown or orange waves, which are more numerous and better defined on the semale; the tail has sive broad black bars, and is white at the tip.—In the second, or Spotted, variety the body has white spots; the semale is brown, and the male, as in the former variety, or Common Sparrow Hawk, verges towards bluish; the under surface of the tail is variegated with alternate brown and white bars.—One individual of the White variety was shot in England, and is now in the cabinet of Dr Davies. Lath.

67. Dubious Falcon.—107. Falco dubius. 112.

The cere and legs are yellow; the head is dusky, streaked with rust colour; the upper parts of the body are brown, the feathers edged with rust; the under parts are dirty white with oblong brown streaks; the tail is long, of a dusky ash colour, with four broad black bars.

F. dubius. Lath. ind. orn. i. 44. n. 104.—Dubious Falcon. Arct. 2001: ii. 213. n. 112. Lath. fyn. fup. 37.

Inhabits New York and Carolina.—Is about ten inches long, and weighs fix ounces. This species resembles the Sparrow Hawk in the marks and colour of the tail, and the Merlin in the spots on the breast; it gets the trivial name from Mr Pennant, who is dubious whether it should not be considered as a variety of the Pigeon Hawk. The bill is dusky; the irides are yellow; the primary wing quills are dusky ash, barred with black, and having their inner webs marked with oval transverse rusty spots.

68. Dusky Falcon. — 108. Falco obscurus. 113:

The cere and legs are yellow; the hind head and nape are spotted with white; the upper parts of the body are dusky brown; the under parts whitish, with black streaks, or longitudinal lines; the tail is short, tipt with white, and crossed with four broad and four narrow dusky bars. F. obscurus. Lath. ind. orn. i. 44. n. 105.—Dusky Falcon. Arct. 2001. ii. 213. n. 113. Lath. fyn. sup. 38.

Inhabits New York.—This is fmaller than the Dubious Falcon: The bill is bluish, its upper mandible being armed with a sharp process; the head, back, and the wing and tail coverts are dusky brown, the feathers being slightly edged with rusty; the primary wing quills are dusky, marked on the inner webs with oval pale rusty spots.

175

69. Pigeon Hawk .- 109. Falco columbarius. 21.

The cere and legs are yellow; the upper parts of the body are brown; the lower parts whitish; the tail is brown, with four narrow white bars.

F. columbarius. Lath. ind. orn. i. 44. n. 106.—Accipiter carolinensis. Briss. orn. 110. n. 21.— Epervier des pigeons. Buss. ois. i. 238—Pigeon Hawk. Catesb. carol. i. t. 3. Lath. syn. i. 101. n. 86. sup. 27.

Inhabits North America.—This species is about ten and a half inches long; it preys on small birds, and is migratory; the bill is whitish with a black tip; the irides are yellow; the whitishness of the under parts of the body has a yellowish tinge, and is streaked with brown; the claws are black.

176

β. Grey Pigeon Hawk.—F. columbarius griscus.

The crown, back, wing coverts, and rump, are bluish grey, each feather being streaked with black in the middle.

Pigeon Falcon. Arct. zool. ii. 212. n. 111.

Inhabits, with the former, from Hudfon's Bay to Carolina.—The bill is dufky; the hind head is fpotted with reddifh white; the cheeks, breaft, and belly are white, with large oblong black fpots; the primary and fecondary wing quills are dufky, with large oval white fpots on their inner webs; the tail is long and black, with four crofs bars of bluifh grey, and tipt with white. This variety is from ten to twelve inches long, and weighs fix ounces; it appears in Hudfon's Bay in May, where it breeds and remains all fummer, retiring fouth in autumn; it feeds on finall birds, and when difturbed by mankind flies round in circles, making a fcreaming noife; it builds in hollows of rocks or decayed trees, laying from two to four eggs, which are white with red fpots.

177

70. Guiana Falcon. - 110. Falco superciliosus. 22.

The cere, legs, and eyelids, are yellow; the body is brown, waved with whitish; the wing quills are rusty, with black bars.

F. fuperciliofus. Lath. ind. orn. i. 45. n. 108.—Guiana Falcon. Lath. fyn. i. 102. n. 87.

Inhabits Guiana and Surinam.—This species is about the fize of a Magpie, and has a general refemblance to the Sparrow Hawk: The upper parts of the body are brown, as are the under parts and thighs, which are marked with numerous black waved lines; the inner margins of the secondary wing quills are whitish; the tail is black with two broad ash coloured bands, and is ash coloured at the tip; the ventlet, or under side of the rump, is white with a few black streaks; the rump is varie-

1.79

1.80

181

gated with black and white; the eye-brows are naked and prominent on the under edges; the straps are befet with black divaricating briftles; the bill and claws are black; the lower wing coverts are white, with very fine short black lines.

71. Ingrian Falcon.—1111. Falco vespertinus. 23.

The cere, legs, and eyelids, are yellow; the ventlet and thighs are rusty. S. G. Gmell. it. i. 67. ii. 163. Lepechin, it. i. 230.

F. vespertinus. Lath. ind. orn. i. 46. 109.—Kobez, Derbnitschok. Decouv. russ. ii. 142.—Ingrian Falcon. Lath. syn. i. 102. n. 88. sup. 27.

Inhabits Ingria, the whole of Russia, and Siberia.—This species builds on the very topmost branches of trees, or expels Magpies from their nests, and takes possession; it preys much on Quails, and goes abroad chiefly in the evening and night. It is about the fize of a Pigeon; the body is bluish red; the belly is bluish white; the head is brown, having a yellow bill, with a brown tip; the tail has twelve quill feathers, which are brown on both surfaces; the wing quill feathers are bluish white, the first seven primaries being tipt with blackish; the legs are naked.

72. Permian Falcon.—112. Falco vespertinoides. 114.

The cere, legs, and eyelids, are yellow; the thighs are black; the neck, breaft; and belly, are brownish with white spots. Falk, it. iii. 329.

F. vespertinoides. Lath. ind. orn. i. 46. 110.

Inhabits Permia, and the Isettensian and Baschkirian districts of Siberia.—This species is only about half the size of the one immediately preceding, and weighs very little more than two ounces.

73. Great-billed Falcon, - 113. Ealco magnirostris, 115.

The cere and legs are yellow; the body is brown above, and white, with rufty streaks, beneath; the tail is barred with black and white.

F. magnirostris. Lath. ind. orn. i. 46. n. 111.—Epervier à gros bec, de Cayenne. Buff. ois. i. 237. Pl. enl. n. 464.—Great-billed Falcon. Lath. syn. i. 103. n. 89. sup. 27.

Inhabits Cayenne.—This species is larger than the Sparrow Hawk, but has shorter legs, and the bill, which is black, is considerably thicker and longer; the irides are orange coloured; the feathers on the upper part of the body and breast are brown, with rusty edges; the claws are black.

74. Criard Falcon.—Falco vociferus.

The legs are yellow; the body is of a grey ash colour, its under parts white; the largers and lesser wing coverts are black. Lath. ind. orn. i. 46. n. 112. Syn. sup. 38.

Petit Bufe criarde. Sonner. voy. ii. 184.

Inhabits India.—This species is about the size of a Pigeon; it lives much in the rice fields, preying on frogs, and is very clamorous on the approach of mankind: The bill is short; the irides are yellow; the orbits are red and naked, and the eye-lids are furnished with eye-lashes.

75. Johanna Falcon. - Falco johannensis.

The legs are yellow; the body is rusty with small linear black spots; the chin is yellowish; the wing quill feathers are blackish brown; the tail is white, and wedge-shaped. Lath. ind. orn. i. 47. n. 713. Syn. sup. 32.

Inhabits the island of Johanna, or Hinzuan.—The bill is black, the base of the lower mandible being yellow.

183

76. Common Hobby.—114. Falco Subbuteo. 14.

The cere and legs are yellow; the back is brown; the nape is white; the belly is pale, with oblong brown spots. Faun. suec. n. 59,

F. Subbuteo. Lath. ind. orn. i. 47. n. 114.—F. Barletta. Ger. orn. i. 66. t. 45. 46. 47. 48.—Dendrofalco. Raj. av. 14. n. 8. Briff. av. i. 375. Frifch. t. 87.—Hobreau. Buff. oif. i. 277. t. 17. Pl. enl. n. 431. 432.—Baum falk. Gunth. neft. t. 73.—Hobby. Brit. 2001. n. 61. Albin. i. t. 6. Lewin, brit. b. i. t. 21. Will. orn. 83. Lath. fyn. i. 103. n. 90. fup. 28.

I:84

B. Northern Hobby. - F Subbuteo borealis.

The crown, back, and wing coverts, are bluish black; the cheeks are white, with a black stroke reaching through them from the crown. Arct. 2001. ii. 227. o.

Inhabits Europe and Siberia.—This species is about twelve inches long: It is migratory, and preysmuch on larks, which are faid to be so terrified as frequently to take refuge in the bosoms of mankind, when pursued; from this circumstance this kind of Hawk was formerly in much request for flying at larks. The bill is blue; the orbits are yellow; the irides are chesnut, sometimes yellow; the cheeks have each a remarkable white semilunar spot; the outer tail quills are barred with black—ifh; the claws are black.

In the Northern variety the breast is white, with oblong black spots; the thighs and under side of the rump are pale orange; the inner webs of the primary wing quills are marked with oval reddish spots; the two middle tail quills are of a uniform dove colour, or bluish grey, the inner webs of the rest being spotted like the primary wing quills. The male weighs seven ounces.

E85

77. Surinam Hobby -115. Fulco aurantius. 116.

The bill and legs are leaden coloured; the upper part of the body is dusky brown, with narrow whitish lines crossing, each other; the chin is garnished with very long narrow whitish feathers; the throat and breast are orange coloured; the belly and tail are brown, with abrupt whitish streaks.

F. aurantius. Lath. ind. orn. i. 48. n. 117.—Orange breasted Hobby. Lath. fyn. i. 105. n. 91.

Inhabits Surinam.—Is about the fize of the Common Hobby, being fifteen inches and a half long: The bill is whitifh at the base, and is three quarters of an inch long; the crown of the head, scrag, and wing coverts are uniformly coloured, without any spots; the throat is marked with round white spots; the belly is streaked with buff colour; the lower coverts of the tail are rusty; the tail is streaked with white near the base; the legs are long and slender, with black claws.—There is some disagreements

BIRDS. RAPACIOUS. Falcons.

disagreement in the descriptions of Mr Latham and Dr Gmelin; the former naturalist says the body is blackish, the back and base of the tail being marked with abrupt whitish streaks; the breast is tawny; the thighs are rusty; the belly is blackish, with streaks of a pale colour, like those on the back; the tail has neither spots nor streaks from its middle to the tip.

186 B. Smaller Surinam Hobby. - F. aurantius minor.

Is smaller than the former; the streaks on the body are more dusky; the chin is white, and the throat is orange coloured. Lath. ind. orn. i. 48. n. 117. s. Syn. sup. 28.

This variety is only ten inches long.

522

187 y. Spotted Surinam Hobby.—F. aurantius maculatus.

The legs are tawny; the upper parts of the body are bluish black, with bluish streaks; the under parts of the body are streaked with white; the belly, ventlet, and thighs, are reddish. Lath. ind. orn. i. 48. n. 117. v. Syn. sup. 29. 2d descr.

This variety is of the fame fize with the former; the chin and throat are reddiff, with a white fpot in the middle.

78. Spot-tailed Hobby. — 116. Falco plumbeus. 117.

The cere is dusky; the legs are yellow; the body is ash coloured, the upper part of the back being of a blackish leaden colour; the inner webs of the tail quills have each three white spots.

F. plumbeus. Lath. ind. orn. i. 49. n. 118.—Spotted-tailed Hobby. Lath. fyn. i. 106. n. 92.

Inhabits Cayenne.—This species is about the fize of the Sparrow Hawk: The bill and claws are black; the head and neck are ash coloured; the legs are short.

189 79. Common Merlin.—117. Falco Aesalon. 118.

The cere and legs are yellow; the head is rusty; the upper part of the body is bluish ash, with rusty spots and streaks; the under parts are yellowish white with oblong spots.

F. Aefalon. Lath. ind. orn. i. 49. n. 119.—Aefalon. Briff. orn. 111. n. 23. Raj. av. 15. n. 15.—Accipiter Smerillus. Ger. orn. i. 51. t. 18. 19.—Kleinster roth falk. Frisch, av. t. 89.—Merlin. Brit. 2001. n. 63. Will. orn. 85. t. 3. Lewin, brit. b. i. t. 22. Lath. syn. i. 106. n. 93. sup. 29.

Inhabits Europe, and is found in Britain.—This species breeds in the northern parts, and retires to the more fouthern regions on the approach of winter; it is about the size of a Blackbird in the body, and measures a foot in length: The bill is bluish, but variable in its shade; the irides are dusky; the tail has from eight to sisteen transverse bars, or streaks, alternately dusky and reddish; the claws are black: The eggs are rounded, and of a brown-red colour.

POI

192

193

190 β. New-york Merlin.—117. β. F. Aefalon noveboracensis.

The forehead is ash coloured; the crown, back, and wing coverts, chesnut; on each temple is a triangular white spot, edged with black; the tail is chesnut, with transverse black bars, its under surface being varied with black and white. Lath. syn. i. 107. n. 93. A.

Inhabits New York.—This variety is only nine inches long: In Mr Latham's Index ornothologicus, it is referred to the Domingo Merlin, and is supposed to be the female of the Carolina Merlin; Mr Pennant considers it as nearly allied to, if not altogether the same with, the Carolina Merlin; but in Mr Latham's Synopsis, and in the Systema Naturae of Dr Gmelin, these are made three diffinct species.

y. Caribbee Merlin .- 117. y. F. Aesalon caribaearum.

Of a reddish colour above, and white beneath, with black spots on both.

F. Aefalon caribaearum. Lath. ind. orn. i. 49. n. 119. \(\beta\).—Aefalon antillarum. Briff. orn. 111. n. 24. Raj. av. 19. n. 3.—Efmerillon Gry-gry. Du Tertre, antil. ii. 253.—Caribbee Merlin. Lath. fyn. i. 108. n. 93. B.

Inhabits the West India Islands.

A. Falconers Merlin.—117. S. F. Aesalon falconariorum.

Resembles the Hobby in its general habits and appearance, but is more allied to the Stone Falcon in other respects.

F. Aefalon falconariorum. Lath. ind. orn. i. 49. n. 119. y.—Esmerillon. Pl. enl. n. 468.—Esmerillon des fauconniers. Buff. ois. i. 288. t. 19.—Falconers Merlin. Lath. syn. i. 109. n. 93. c.

This variety is not described, nor are we informed where it is found, but only that it was formerly employed in falconry; it probably inhabits the same countries with the Common or European variety.

80. Carolina Merlin.—118. Falco Sparverius. 20.

The cere is yellow; the head is brown, with a red crown; the belly is red; the wings are bluish.

F. Sparverius, maf. Lath. ind. orn. i. 42: n. 99.—F. minor rufefcens. Brown, jam. 471.—Aefalon carolinensis. Briss. av. i. 386. t. 32. s. 1.—Esmerillon de la cayenne. Buff. ois. i. 291. Pl. ens. n. 444.—Little Hawk. Catesby, carol. i. t. 5.—Little Falcon, male. Arct. 2001. ii. 211. n. 110. Lath. syn. i. 110. n. 94.

Inhabits Virginia, Carolina, and St Domingo.—This species is about the size of the Common Merlin, being eleven and a half inches long, and only three ounces and a half in weight: The bill and irides are yellowish; the head is bluish-ash; the crown, upper part of the body, and wing coverts, are orange brown, with transverse black streaks; the tail is reddish brown with small black spots; the legs are yellow;—The head of the female is surrounded with seven black spots.

81. Domingo Merlin .- 119. Falco dominicensis. 119.

The cere and legs are yellow; the head is ash coloured; the body is reddish brown above, and dirty white below, both being fpotted with black; the eight middle tail quills are chefnut, growing blackish toward the extremity, which is tipt with white.

F. Sparverius, fem. Lath. ind. orn. i. 42. n. 99.—Aefalon dominicenfis. Briff. orn. i. 389. n. 26. t. 32, f. 2.—Efmerillon de S. Domingue. Pl. enl. n. 465.—St Domingo Falcon. Lath. fyn. i. 111. n. 05.—Little Falcon, female. Arct. zool. ii. 212. n. 110.

Inhabits the island of St Domingo, or Hispaniola.—The bill is yellow, with a black tip; the irides are yellow; the outer tail quills of the male have their exterior webs and tips white, the interior webs being chefnut, with transverse black spots; in the female these have each five black spots on the white exterior webs, and the inner webs are uniformly chefnut coloured; the middle tail quills in both are chefnut, with white tips, and having a black fpot near the extremities; the claws are white.

There is confiderable differency here in the defcriptions and arrangement of Dr Gmelin, Mr Pennant, and Mr Latham: The two latter naturalists confider this last described bird as the female of the Carolina Merlin, and yet describe it differently from Dr Gmelin, who is quoted by Mr Latham. Mr Pennant informs us that the bill is fhort and much hooked; the crown is deep flaty blue, obfcurely fpotted with red; the hind part of the neck, the back, wing coverts, and tail, are variegated with bright rufty and black in narrow transverse bars; the primary wing quills are black; the under fide of the neck, the breaft, and belly are dirty white, with large rufty fpots; the thighs and under fide of the rump are white; the legs are long, flender, and orange coloured; the tail is croffed with eleven black and eleven bright rufty bars. The description given by Mr Latham, in his Index, agrees with that of Mr Pennant in the bars of the tail, but in the rest of the body it agrees with Dr Gmelin. Where naturalists of fuch reputation and experience differ so widely, the safest method is to give their different opinions, and leave the decision to farther inquiry.—T.

195

82. Minute Falcon.—120. Falco minutus. 32.

The cere is brown; the legs are yellow; the under part of the body is white; the tail quills are brown, with black bars.

F. minutus. Lath. ind. orn. i. 50. n. 121.—Accipiter minor. Brist av. i. 315. t. 30. f. 1.—Minute Falcon. Lath. fyn. i. 112. n. 96.

Inhabits the ifland of Malta.—This species is not larger in the body than a Thrush, and measures fomething lefs than a foot in length: The bill and claws are black; the body is brown above, varied with reddish; its under side is white, with transverse reddish brown streaks; the breast being sometimes marked with fpots fhaped like spear heads.

196

83. Bengal Falcon. - 121. Falco caerulescens. 9.

The cere, eyelids, legs, and under part of the body, are yellow; the back is bluiss. black; the temples are furrounded by a white line.

F. caerulescens. Lath. ind. orn. i. 50. n. 120. F. bengalensis. Brist. orn. i. 119. n. 38. F. parvus indicus. Ger. orn. i. 66. t. 44. f. 1.—Faucon de bengale. Briff. app. 20. n. 38.—Little blackand-orange indian Hawk. Edw. av. t. 108.—Bengal Falcon. Lath. fyn. i. 112. n. 97.

Inhabits

198

Inhabits Bengal.—This is one of the smallest of the genus, measuring only six inches and a half long: The bill is blackish; the hind head is white; the orbits are naked and yellow; the cheeks are white with a black streak through each; the tail is black, the two middle quills being uniform, while the rest have transverse white streaks on their inner webs; the claws are blackish.

84. Siberian Falcon.—122. Falco regulus. 120.

The cere is greenish; the legs are dusky yellow; the neck is surrounded by a rusty rust, or collar; the body is leaden coloured above, and whitish, with rusty brown spots, below. Pall. it. 2. 707.

F. regulus. Lath. ind. orn. i. 50. n. 122.—Siberian Falcon. Lath. fyn. i. 113. n. 98.

Inhabits Siberia.—This fpecies is very rare, and exceedingly fmall, being even lefs than the preceding, and fcarcely weighing half a pound. In general appearance, and in the two tooth-like proceffes of the bill, it refembles the Kestril; the crown is brown, with blackish streaks; the back is streaked with brown, the shafts of the feathers being of that colour; the under part of the body is thickly interspersed with small rusty-brown dots; the tail quill feathers are black at the edges, white at the tips, leaden coloured near the extremity, and slightly barred on their under surfaces.

85. Tiny Falcon.—Falco pumilus.

The legs are yellow; the body is brown ash colour; its under parts whitish, with blackish bars; the crown is whitish.

F. tinus. Lath. ind. orn. i. 50. n. 123.—Tiny Falcon. Lath. fyn. fup. 39.

Inhabits Cayenne.—This is one of the smallest species of the genus, which scarcely measures six inches from the tip of the bill to the base of the tail.

III. O W L.—3. S T R I X. 43.

The bill is hooked, and has no cere: The nostrils are oblong, being covered by reslected bristly feathers: The head is large, with large eyes, and wide passages to the ears: The tongue is cleft.

The genus of Owls differs from that of Falcons, in some measure as Moths differ from Butterflies; Owls and Moths flying about in the evening and night, while Falcons and Butterflies fly chiefly by day; the one being called Nocturnal or night birds, while the others are Diurnal or day birds. Owls prey, chiefly by night, on small birds, murine quadrupeds, and bats; their legs and feet are, for the most part, clothed with feathers or down, even to the origin of the claws; three of the toes stand forward, and one backwards, but the outer fore toe can be turned backwards occasionally, so as to act along with the back toe; in this way the feet are either perching or climbing, as is necessary at the time: The passages to the ears are large, and are provided with a membrane, which, when drawn back, resembles the eustachian tube of the human ear: The eyes are large, full, and protuberant, and

199

200

201

202

fhine in the dark, that the animal may then fee with greater clearness; during the day they are mostly kept shut, being unable to bear the glare of light, and, though birds of prey, they are then insulted by the small birds, when discovered by them in their retreats: The outermost wing quill feather is ferrated, or jagged, on each of its edges: The claws are much hooked, and very sharp.

This genus is very conveniently fubdivided into two parcels, which are diffinguished by the prefence or absence of a kind of horns or external ears, composed of feathers: In the first subdivision, called Eared Owls, or Horned Owls, some long feathers are erected round the auditory passages; these are sometimes very conspicuous, consisting of a number of considerable feathers; at other times they are scarcely perceptible except when erected, and consist but of one or two small feathers: In the second subdivision, called Earless Owls, these appendages are entirely wanting.

* Eared Owls.

1. Great Owl. - 1. Strix Bubo. 1.

Of a large fize, and tawny red colour. Faun. fuec. n. 69. Scop. an. i. 18.

S. Bubo. Lath. ind. orn. i. 51. n. 1.—Bubo. Bellon, av. 25. a. Gefn. av. 234. Aldr. orn. i. 502:—Bubo maximus. Ger. orn. i. 84. t. 81. Wirfing. vog. t. 50.—Grand Duc. Buff. oif. i. 322. t. 22. Pl. enl. n. 435.—Gufo. Zinnan. uov. 96. t. 16. f. 85.—Schuffut, Uhu. Frifch. av. t. 93.—Eagle Owl. Brit. 2001. n. 64.—Great horned Owl. Alb. av. ii. t. 9. Will. orn. 99. t. 12. Lewin, brit. b. i. t. 23.—Great eared Owl. Lath. fyn. i. 116. n. 1. fup. 40.

β. Athenian Great Owl.—1. β. S. Bubo atheniensis.

Is of a fuller, or darker, colour, with blackish wings, and has slenderer legs. Lath. ind. orn. i. 51. n. 1. \(\beta\).

Bubo italicus. Briff. orn. 140. n. 1. A. Borowsk. nat. ii. 77.—Bubo secundus. Will. orn. 63.—Bubo minor, f. B. vulgaris. Ger. orn. i. 85. t. 82. 83.?—Black-winged horn Owl. Alb. av. iii. t. 6.—Eagle Owl. Will. orn. ang. 99. n. 2.—Athenian horn Owl. Edw. av. t. 227. Lath. syn. i. 118.

y. Smooth-legged Great Owl .- 1. y. S. Bubo nudipes.

Resembles the Common Great Owl in every thing, except that the legs are naked. Lath. ind. orn. i. 52. n. 1. 2. Briff. orn. 141. n. 1. B.

Bubo tertius. Will. orn. 64.—Great horn Owl. Will. orn. ang. 100. n. 3.—Smooth-legged Owl. Lath. fyn. i. 118.

8. Variegated Great Owl .- 1. S. S. Bubo variegata.

The body is blackish yellow, variegated with white. Lath. ind. orn. i. 52. n. 1. 8.

S. Bubo magellanicus. Syft. nat. ed. Gm. 286. n. 1. 5.—Jacurutu. Marcgr. braf. 199.—Hibou des terres magellaniques. Buff. oif. i. 338. Pl. enl. 385.—Magellanic eared Owl. Lath. fyn. i. 118.

Inhabits Europe, Calmuck Tartary, and South America.—This is the bird of Minerva, or Noctua of the ancients, who used the proverb, *Noctuas athenas mittere*, as we now fay, 'to fend coals to Newcastle.' It haunts the thickest coverts of the forest, and holes and caverns of decayed trees, rocks, and mountains, preying by night on hares, rabbits, moles, rats, and mice, and seldom on bats or amphibious

phibious reptiles. In fize it equals fome of the Eagles; the irides are yellow; the head and body are marked with lines and fpots, elegantly varied, of black, brown, ash, and rusty colours; the wings are long; the tail is short, and marked with transverse dusky streaks; the legs are of a brick-dust red colour, and, except those of the Smooth-legged variety, are feathered to the roots of the claws; these are dusky, large, very much hooked, and sharp pointed.

2. Virginian Owl.—2. Strix virginiana. 13.

203

204

205

206

The upper parts of the body are brown, with fine zig-zag lines of ash colour, black and orange; the under parts are pale ash, with transverse brown lines; the throat and sides of the breast are orange, with brown streaks.

S. virginiana. Lath. ind. orn. i. 52. n. 2.—Bubo virginianus. Briff. orn. 141. n. 2. Ger. orn. i. 86. t. 84.—Horned Owl. Ellis, hudf. 40. t. 2.—Great horned Owl, from Virginia. Edw. av. ii. t. 60.—Eagle Owl. Arct. 200l. ii. 228. n. 114.—Virginian Eared Owl. Lath. fyn. i. 119. n. 2.

Inhabits America, in both hemispheres, Northern Asia, as far east as Kamtschatka, and almost to the North Pole.—This species resembles the Great Owl, being variegated in a similar manner, but it is smaller, and the feathery ears are placed nearer to the base of the bill: Dr Gmelin supposes it may only be a variety, and Mr Pennant places it as such in his Arctic Zoology. The bill is black; the irides are golden yellow; the wings and tail are barred with dusky brown, and the latter has a number of cross ash coloured lines; the legs are clothed to the roots of the claws with soft light brown feathers; the claws are pale yellowish, or horn coloured.

3. Scandinavian Owl.—3. Strix scandiaca. 2.

The whole body is whitish, sprinkled with black spots. Faun. suec. n. 70.

S. fcandiaca. Lath. ind. orn. i. 53. n. 6.—Bubo lapponicus. Briff. orn. 142. n. 3.—Scandinavian eared Owl. Lath. fyn. i. 120. n. 3. Arct. zool. ii. 237. A.

Inhabits the mountains of Lapland.—This species is as large as a Turkey, and resembles the Snowy Owl, except in having ears. Dr Gmelin suspects this might likewise be considered as a variety of the Great Owl.

4. Ceylon Owl .- 4. Strix zeyloneusis. 14.

The upper part of the body is reddish brown, and the lower parts are yellowish white; the face is marked with reddish brown circles, which are streaked with black.

S. ceylonenfis. Lath. ind. orn. i. 52. n. 3.—Great ceylonefe horned Owl. Brown, illust. zool. 8. t. 4.—Ceylonese eared Owl. Lath. syn. i. 120. n. 4. sup. 41.

Inhabits Ceylon and Sumatra.—This fpecies is nearly two feet long: The bill is pale; the irides are yellow; the ears are flort and pointed; the primary wing quills, and the tail quills, are fireaked transversely with black, white, and pale red; the legs are only half feathered.

5. Chinese Owl. - Strix sinensis.

The body is reddish brown, with waved black lines; its under parts are streaked with reddish black, and barred with white. Lath. ind. orn. i. 53. n. 4.

X x x 2 Chinefe

Chinese eared Owl. Lath. fyn. sup. 4.

Inhabits China.—Is about the fame fize with the Long-eared Owl: The bill and legs are black; the fecondary wing quill feathers are each marked with four blackifh bars.

207

6. Coromandel Owl.—Strix coromanda.

The body is greyish red above, with reddish white spots; its under parts are pale red, with small semilunar black spots. Lath. ind. orn. i. 53. n. 5.

Hibou de Coromandel. Sonner. voy. ii. 186.—Coromandel eared Owl. Lath. fyn. fup. 44.

Inhabits India, on the Coromandel coast.—This species is considerably smaller than the preceding; the bill is black; the irides are yellow; the legs are reddish; the cheeks are white; the wing and tail quills are barred with reddish white.

208

Of a rusty or tawny red above, and ash coloured below; the wings being marked with five white spots.

S. Asio. Lath. ind. orn. i. 54. n. 10. Faun. groenl. n. 37.—Scops carolinensis. Briss. av. i. 497.—Little Owl. Catesby, carol. i. t. 7.—Red eared Owl. Lath. syn. i. 123. n. 8.

Inhabits North America, and Greenland.—This fpecies is ten inches and a half long: The upper parts of the body are marked with black streaks, and the lower with oblong black spots; the scapulars are marked with large white spots, which are probably the five white spots on the wings that are noticed in the character; the primary wing quills are barred with black, red, and white; the tail is red, with dusky bars; the legs are feathered to the origin of the claws.

209

8. Mexican Owl.-6. Strix mexicana. 15.

Is variegated with brown and black.

S. mexicana. Lath. ind. orn. i. 54. n. 9.—Afio mexicanus. Briff. orn. 146. n. 9.—Tecolofl. Raj. av. 160.—Mexican eared Owl. Lath. fyn. i. 123. n. 7.

Inhabits Mexico, and New-spain.—The eyes are large, and have golden yellow irides.

210

9. American Owl. - 7. Strix americana. 16.

The head and upper parts of the body are ash coloured; the under parts are rusty; the rump is white, with black spots; the wings and tail are rusty, with transverse ash coloured and grey streaks.

S. americana. Lath: ind. orn. i. 54. n. 8.—Afiò americanus. Briff. orn. 145: n. 7.—Bubo ocrocinereus. Feuill, journ. des obs. ed. 1725. p. 59.—American eared Owl. Lath. syn. i. 122. n. 6.

Inhabits South America.—Is about the fame fize with the next, or Long-eared Owl, of which both. Dr Gmelin and Mr Latham fufpect it may only be a variety: The bill is yellow; the irides golden yellow; the orbits are ash coloured; the legs and feet are yellow, with black claws.

212

213

214

10. Long-eared Owl. - 8. Strix Otus. 4.

The ears are long, confifting each of fix feathers. Faun. fuec. n. 71. Scop. an. i. n. 18.

S. otus. Lath. ind. orn. i. 53. n. 7.—Afio. Briff. av. i. 486.—Otus, Afio. Bellon, av. 25. n. 6. Gefn. av. 223. Aldr. orn. i. 525.—Moyen Duc, Hibou. Buff. oif. i. 342. t. 22. Pl. enl. n. 29.—Hibou, Canot. Carlev. nouv. fr. iii. 5. 6.—Rothes Kaeuzelin. Frifch. av. 99.—Horn Owl. Will. orn. 100.. Albin, av. ii. t. 10.—Long-eared Owl. Brit. 2001. n. 65. Lewin, brit. b. i. t. 24. Lath. fyn. i. 121. n. 5. fup. 42.

B. Italian Long-eared Owl .- S. Otus italicus.

The general colour is darker than in the common variety. Lath. ind. orn. i. 54. n. 7. 8.

Afio italicus. Briff. av. i. 491. A. Aldr. orn. 519. t. p. 523.—Italian eared Owl. Lath. fyn. i. 122.

2. Arctic Long-eared Owl.—S. Otus arcticus.

Is confiderably smaller in fize than the other two varieties. Arct. zool. ii. 229. n. 115.

Inhabits Europe, America, and the northern parts of Afia, as far as Aftrachan, and is found in Egypt.—This fpecies measures fourteen inches long, the Italian variety is a little larger, and the Arctic confiderably smaller; it builds in trees, laying four white eggs in April; it never migrates, and is extremely clamorous. The feathers of the ears, or horns, are black and yellow, and very long; the irides are yellow; the back and wing coverts are variegated with dusky brown, grey, and rusty yellow; the breast and belly are pale yellow, with slender longitudinal brown streaks; the tail is barred with ash colour and dusky; the primary wing quills are barred with rust colour and dusky; the legs and feet are feathered to the claws.

11. Short-eared Owl .- 9. Strix brachyotos. 17.

The ears are short; the upper part of the body is brown, the feathers being edged with yellow; the under parts are pale yellow, longitudinally streaked with dusky. Forster, phil. trans. lxii. 384. n. 2.

S. brachyotos. Lath. ind. orn. i. 55. n. 11.—Chouette, Grand Cheveche. Buff. oif. i. 372. t. 27. Pl. enl. n. 438.—Short-eared Owl. Brit. 2001. n. 66. t. 31. Arct. 2001. ii. 229. n. 116. Lewin, brit. b. i. t. 25. Lath. fyn. i. 124. n. 9. fup. 43.

Inhabits Europe, Siberia, and America, and has been found in the Sandwich islands.—This species measures fourteen inches long; the ears consist of a single feather, which may be raised or depressed at pleasure, and are not in general very conspicuous, which has occasioned it to be supposed earless by some naturalists; it is very bold, and preys much on mice, watching for them like a cat, from which circumstance it is called, by the English in Hudson's Bay, the Mouse Hawk: The tail is dark brown, the middle feathers having a large yellow circle, with a brown spot in the center, on each web; the primary wing quills are dusky, with red bars; the thighs, legs, feet, and toes, are covered with yellow feathers: It never slies after its prey; breeds on the ground in the northern regions, and migrates southwards in autumn: This species sometimes varies to a yellowish colour, the feathers having oblique black bars. Mr Pennant refers the Ulula cunicularia, of Feuillé, to this species, but it feems more properly to form a separate article among the Earless Owls, as arranged by Dr Gmelin.

12. Brasilian Owl.—10. Strix brasiliana. 18.

The body is pale rusty brown above, with white spots; and whitish below, with rusty brown spots.

S. brasiliana. Lath. ind. orn. i. 55. n. 12.—Asio brasilians. Brist. orn. 145. n. 8.—Noctua brasilians, Cabure. Raj. av. 26. n. 7.—Ulula brasilians. Klein, av. 57. n. 8.—Cabure, Caboure. Will. orn. 107. n. 8. Buff. oif. i. 383.—Brasilian eared Owl. Lath. syn. i. 125. n. 10.

Inhabits Brafil.—Is about the fize of a Thrush; the wing quill feathers are barred with white; the bill, irides, legs, feet, and toes, are yellowish; the legs are short.

216

13. Mottled Owl .- 11. Strix naevia. 19.

The body is grey, its under parts paler, and both are fpotted with black and rusty; the feathers of the head and breast are dotted with black.

S. naevia. Lath. ind. orn. i. 55. n. 13.—Mottled Owl. Lath. fyn. i. 126. n. 11. Arct. zool. ii. 231. n. 118. Faun. amer. fept. 9.

Inhabits New-york.—Is eleven inches long; breeds in May, and does not migrate. The face is white, with brown fpots; the head, wings, and upper parts of the body, are mottled with afth colour and pale red; the fcapulars, and wing coverts, have large white fpots; the primary wing quills are fpotted with black and pale rufty; the breaft and belig are whitifh grey, with longitudinal dufky ragged ftripes; the legs and feet are feathered to the toes.

217

14. Indian Owl. - 12. Strix indica. 20.

The back is dusky; the wing coverts are grey, with narrow longitudinal black lines; the breast is buff coloured, with small fagittal black spots; the wings are transversely barred with black and white.

S. Bakkamuna. Lath. ind. orn. i. 56. n. 14.—Otus Bakkamoena, Little horned Owl. Ind. zool. ed. 2d. n. iii. t. 3.—Little Hawk Owl. Ind. zool. ed. 1st. n. 3.—Indian eared Owl. Lath. syn. i. 127. n. 12.

Inhabits Ceylon.—This fpecies is rare, and very finall, as the figure in the Indian Zoology, which is faid to be of the natural fize, measures only four inches and a half long: The bill is dusky, and furrounded with long bristles; the head is deep ash colour, circularly striped with paler; the ears, or horns, rise from the base of the bill and diverge outwards, being dusky on their inner and white on their outer sides; the irides are scarlet; the orbits are pale ash, surrounded with yellowish brown; the legs are feathered only half way, their lower naked part, and the feet, are reddish yellow.

218

15. Sardinian Owl.—13. Strix Zorca. 21.

The bill is greenish yellow; the ears are composed of eight or nine feathers. Cetti, uc. fard. 60. Lath. ind. orn. i. 56. n. 15.

Inhabits Sardinia and Italy.—This species measures seven inches in length; it is solitary, does not migrate, and makes a howling noise; the feet and toes are naked.

220

22I

222

** Earlefs-

16. Carniolic Owl.—14. Strix carniolica. 22.

The body is whitish ash, with transverse streaks and spots of blackish.

S. Giu. Scop. an. i. 19. n. 9. Kram. el. 323. n. 3. Lath. ind. orn. i. 56. n. 16.—Carniolic eared Owl. Lath. fyn. i. 127. n. 13.

Inhabits the woods of Carniola.—This fpecies neftles in the fiffures of rocks, and cavities of decayed trees, laying two, three, or four eggs, and feeds its young with the Scarabeus majalis; it measures about eight inches long, and refembles the Little Owl, differing chiefly from it by having finall ears, which are fcarcely perceptible after death. The first fix wing quill feathers, are spotted with white on one of their webs; the tail is spotted with brownish. The bird quoted from Kramer seems to vary from this in being variegated with very small waved lines of black, white, and brown.

17. Yaik Owl .- 15. Strix deminuta. 23.

Of a reddish colour, and small size. Pall. it. ii. 707. n. 14.

S. deminuta. Lath. ind. orn. i. 56. n. 17.—Yaickan eared Owl. Lath. fyn. i. 128. n. 14.

Inhabits the forests of the Uralian or Yaik mountains, in Siberia.—This species resembles the Great Owl in colours, and general make, but is vastly smaller, scarcely weighing one pound; the variegation of its feathers is likewise less elegant, and less distinctly marked.

18. Siberian Owl.—16. Strix pulchella. 24.

The body is grey, variegated with brown, rusty, and white. Pall. it. i. 466. n. 8.

S. pulchella. Nov. com. petr. xv. 490. t. 26. f. 1. Lepech. it. ii. t. 4. Lath. ind. orn. i. 57. n. 19.—Siberian eared Owl. Lath. fyn. i. 130. n. 16. t. 5. f. 1.—Least horned Owl. Natural miscell. No. viii. t. 22.

Inhabits Siberia, near Catharinople, and on the fouthern shore of the Wolga.—Is rather more than nine inches long; the bill, legs, feet, and claws, are dirty whitish; the irides are yellow; the back is dirty ash colour; the wings are marked with oblong white spots; the tail is reddish, with brown bars and dots. Mr Latham says, that the body is hoary, waved with ash colour, the wings barred with hoary, and the nostrils smeared with white.

19. Scops Owl .- 17: Strix Scops. 5.

The ears are each composed of one feather.

S. Scops. Lath. ind. orn. i. 56. n. 18.—Scops. Briff. av. i. 495. t. 37. f. 1. Aldr. orn. lib. viii. c. 4. Raj. av. 25. n. 3.—Scops, Petit Duc. Buff. oif. i. 353. t. 24. Pl. enl. n. 436.—Chiu, Alloccarello, Chivino. Zinnan, uov. 98. t. 16. f. 87.—Horn oder Ohreule. Gunth. neft. t. 40.—Scops eared Owl. Lath. fyn. i. 129. n. 15. fyn. 43.—Little horn Owl. Will. orn. 101. t. 12.

Inhabits Europe, but has not been discovered in Britain.—This species is very small, scarcely exceeding seven inches long; it preys on field mice; the ears are scarcely conspicuous after death: The plumage is variegated with grey, reddish, brown, and blackish, but is subject to considerable variety from difference of age; the legs are feathered, and spotted with brown; the toes and claws are brown.

** Earless Owls.

223

20. Snowy Owl .- 18. Strix Nyclea. 6.

The plumage is white, with a few distant small dusky or brownish semilunar spots. Scop. an. i. 20.

S. Nyctea. Lath. ind. orn. i. 57. n. 20.—Strix alba, freti hudfonis. Briff. av. i. 522.—Aluco albus diurnus. Ger. orn. i. 89. t. 93.—Ulula alba. Klein, av. 65. n. 5.—Harfang. Faun. fuec. n. 76. Buff. oif. i. 387. Pl. enl. n. 458.—Hibou blanc d'Ifland. Ander. ifl. i. 85. t. 1.—Great white Owl. Edw. av. t. 61. Gent. mag. xli. t. p. 437.—Snowy Owl. Arct. zool. ii. 233. n. 121. t. tit. praefix. Lath. fyn. i. 132. n. 17. fup. 45.

224

β. Speckled Snowy Owl.—S. Nyctea striata.

Is marked with numerous femilunar brown spots. Nat. misc. No. xvi. t. 47.

Inhabits the northern parts of Europe, Asia, and America.—This species is almost equal in size to the Great Owl, being two feet long; it slies about in the day, and preys on herons, hares, murine quadrupeds, and birds, sometimes feeding on carrion; it makes a hideous howling noise, resembling the voice of a man in deep distress; it varies considerably in fize, weighing sometimes three pounds, while other specimens scarcely weigh half as much; in winter it is often found, especially in the most northern regions, entirely white, but has generally a few small scattered crescent-like brown or dusky spots; the variety quoted from the Naturalist's Miscellany is remarkable for having a much greater number of these spots than usual. The head is smaller in proportion than in most species of the genus; the legs, feet, and toes, are thickly clothed with long soft downy white feathers to the claws; the bill and claws are black; the irides are yellow.

225

21. Swedish Owl.—19. Strix Tengmalmi. 44.

The body is grey, with round white spots. Tengmalm, in act. Stock. ann. 1783, trim. 1.

S. Tengmalmi. Lath. ind. orn. i. 64. n. 42. Arct. zool. fup. p. 60.

Inhabits the province of Upland, in Sweden.—This species, which was only lately discovered by Dr Tengmalm, is about the fize of a blackbird; the bill is dusky, with a white tip, and having a black line streaching from its base to the eye, on each side; the eyes are surrounded with a circle of white feathers, which are clouded with dusky, or blackish; the head is grey, striped with white, and surrounded by a dusky collar or circle, which is spotted with white; the breast and belly are white, irregularly blotched with dusky; the primary wing quills are dusky, with white bars; the tail is dusky grey, with white stripes; the toes are feathered to the claws.

226

22. Barred Owl .- 20. Strix nebulofa. 25.

The head, neck, breaft, back, and wing coverts, are transversely barred with brown and whitish; the belly and ventlet are dirty white, with oblong brown longitudinal streaks; the tail is barred transversely with brown and whitish, and is white at the tip. Forster, phil. trans. lxii. 424.

228

229

S. nebulofa. Lath. ind. orn. i. 58. n. 23.—Barred Owl. Arct. zool. ii. 234 n. 122. Lath. fyn. i. 133. t. 18.—Clouded Owl. Nat. mifc. N°. ix. t. 25.—Grey Owl. Phil. tranf. lxii. 386.

Inhabits Hudson's Bay and New York.—This is a large species, weighing three pounds, measuring two feet in length, and four feet in extent of wings; it preys on hares, mice, &c. The bill is pale yellow, and befet with strong brittles; the irides are yellow, and the eyes are surrounded by a large whitish circle; the primary wing quills are very distinctly barred with black and white; the legs, feet, and toes are feathered with whitish; the wings are shorter than the tail.

23. Sooty Owl.—21. Strix cinerea. 26.

The head, forag, and wing coverts, are footy, with narrow dirty white bars; the breast and belly are dirty white, much covered with large, oblong, dusky brown blotches.

S. cinerea. Lath. ind. orn. i. 58. n. 22.—Sooty Owl. Arct. 2001. ii. 232. n. 120.—Cinereous Owl. Lath. fyn. i. 134. n. 19. fup. 45.

Inhabits Hudson's Bay.—This species is as large as the last; it slies about in pairs, preying on hares, rabbits, &c.; breeds in the pine trees, laying two eggs, which are spotted with dusky, in the middle of May, and the young ones are able to fly in the end of July: The bill is whitish; the irides are yellow; the primary wing quills are deep brown, with broad bars of dusky, and pale ash coloured streaks; the tail is irregularly marked with oblique streaks of brown and dirty white; the eyes are surrounded with alternate black and pale ash coloured circular streaks; a part of the skin, from the chin along the breast and belly to the vent, is bare of feathers for near an inch in breadth; this last circumstance is an uncommon distinctive mark, if it is not merely accidental.

24. Spectacle Owl.—Strix perspicillata.

The head is white, smooth, and downy; the space round the eyes, the chin, and the upper part of the body, are reddish brown; the under parts of the body are reddish white, and the breast is barred with reddish brown. Lath. ind. orn. i. 58. n. 24. Syn. sup. 50. t. 107.

Inhabits Cayenne.—This species is smaller than the two preceding, measuring twenty-one inches long; the head is small, and is covered with a woolly-like downy plumage, having a yellow bill; the legs, feet, and toes are feathered to the claws.

25. Spotted Owl.—22. Strix maculata. 27.

The back and rump are white, with dusky spots; the breast and belly are dirty white, with numerous transverse reddish lines; the scapulars and wing coverts are white, with dusky reddish longitudinal bars.

S. Wapacuthu. Syst. nat. ed. Gm. 291. n. 27. Lath. ind. orn. i. 58. n. 21.—Wapacuthu Owl. Arct. zool. ii. 231. n. 119. Lath. fyn. sup. 49.

Inhabits Hudson's Bay.—This is a large species, measuring two feet long, by four in extent, and weighing five pounds; it lives in the woods, preying on mice and small birds; builds on the bare Vol. I.

Yyy

ground,

ground, or mosly soil; the young are hatched in May, and sty in June, continuing entirely white for a long time after. It is called Wapacuthu by the Indians, which signifies Spotted Owl, and is reckoned a great delicacy by the European settlers. The bill is glossy black, and its base is beset with strong bristles; the irides are yellow; the space about the eyes, cheeks, and chin are white; the ends of the feathers on the head are black; the wing and tail quills are irregularly barred and spotted with black and pale red; the ventlet or under side of the rump is white; the legs are feathered to the toes, which are covered with hairs, and have very crooked claws.

230

26. Coquimbo Owl.—23. Strix cunicularia. 28.

The body is brown above, with white fpots; its under parts are white; the legs are warty and hairy. Molin. chil. 233. Klein, av. 57. n. 9. Feuillé, obf. 562.

Noctua coquimbana. Briff. orn. 155. n. 11.—Coquimbo Owl. Lath. fyn. i. 145. n. 33.

Inhabits Coquimbo in Chili.—This fpecies is about the fize of a Pigeon; it fometimes flies about in pairs during the day, preying on infects and reptiles; it breeds in long fubterranean burrows, like Rabbits, laying four eggs, which are variegated with white and yellow.

231

27. Sacred Owl.—24. Strix Aluco. 7.

The head is rufty; the irides are black; the primary wing quills are ferrated at the edges.

S. Aluco. It. oel. 69. Scop. an. i. 20. n. 4. Tengmalm, act. Stock. ann. 1782, trim. 2. n. 8. Gerin. orn. 90. t. 94.—S. cinerea. Raj. av. 26. n. 3.—Ulula. Gefn. av. 773. Aldr. orn. i. 540. Briff. av. i. 507.—Hulotze. Buff. oif. i. 358. Pl. enl. n. 441.—Aluco Aldrovandi. Will. orn. 104. t. 13.—Grabeule. Frifch, av. t. 94.—Aluco Owl. Lath. fyn. i. 134. n. 20.

Inhabits Europe and Tartary.—This species is sisteen inches long; it is said to be considered as sacred by the Kalmucks, for having contributed to save the life of their great monarch Genghis Khan, but this is attributed to another species, the Common Owl, by Mr Pennant; perhaps it is to the Owl in general this respect is paid, and not to any particular species. In summer it dwells in the hollows of decayed trees in the woods, and in winter comes near the habitations of mankind; it lays four dirty grey eggs, employing the deserted nests of the Great Owl, Kestril, Crow, or Magpie; the bill is of a yellowish or greenish white; the upper part of the body is of a dark rust colour, with whitish and black spots; the legs are white, with very small black dots.

232

28. Austrian Owl .- 25. Strix sylvestris. 29.

The body is variegated with white and brown; the space round the eyes is white.

S. fylvestris. Scop. an. i. 21. n. 13. Lath. ind. orn. i. 61. n. 29.—Austrian Owl. Lath. fyn. i. 136. n. 21.

Inhabits Carniola.—This fpecies is about the fize and general appearance of a middle fized common fowl: The covering of the head is rendered very elegant and fingular by a radiated wreath of white feathers which runs across the fore-head from one ear to the other; the irides are fiery red.

234

235

236

237

238

29. White Owl.—26. Strix alba. 30.

The upper part of the body is reddish, spotted with grey; the under parts white; the wing and tail quills are reddish, the latter having white tips. Scop. an. 22. n. 14.

S. alba. Lath. ind. orn. i. 61. n. 30.—Austrian white Owl. Lath. fyn. i. 136. n. 22.

Inhabits Austria.—Of the same fize with the former, from which it is particularly distinguished by having a reddish border to the covering of the head; the bill is white.

30. Reddish Owl.—27. Strix Noctua. 31.

The body is pale reddish, with longitudinally oblong brown spots; the irides are brown.

Scop. an. i. 22. n. 15.

S. Noctua. Lath. ind. orn. i. 61. n. 31.—Rufous austrian Owl. Lath. fyn. i. 136. n. 23.

Inhabits Carniola.—This species is about the fize of a Pigeon, and dwells in the woods.

31. Rusty Owl.—28. Strix rufa. 32.

The body is rusty, with brown spots; the irides are bluish. Scop. an. i. 22. n. 16.

S. rufa. Lath. ind. orn. i. 62. n. 32.—Ferrugineous austrian Owl. Lath. fyn. i. 137. n. 24.

Inhabits the woods of Idria.—This is much of the fame fize and general appearance with the last, of which, perhaps, it should only be considered as a variety.

32. French Owl.—29. Strix soloniensis. 33.

The upper part of the body is very dark brown, mixed with tawny; its under part is white; the tail is white, with black lines croffing each other near the tip.

S. folonienfis. Lath. ind. orn. i. 62. n. 33.—Ulula minor, f. Noctua minor. Salerne, orn. 56.—Solognefe Owl. Lath. fyn. i. 137. n. 25.

Inhabits France, in the district formerly named Sologne.—This species measures sisteen inches in length; the crown of the head, and the outer circle of feathers round the face, are varied with white and reddish; the toes are pale.

33. Mountain Owl.—Strix barbata.

The space round the eyes, and the chin, are black. Lath. ind. oru. i. 62. n. 34. Syn. sup. 50.

Inhabits the eastern mountains of Siberia.—Has considerable resemblance to the Sacred Owl, but is in reality a different species: The bill and irides are yellow; the plumage is ash coloured; the primary wing quills are serrated on both edges; the blackness of the chin has the appearance of a beard at a distance.

34. Common Owl.—30. Strix flammea. 8.

The body is pale yellow above, with small white spots; and whitish below, with small blackish spots. Faun. suec. n. 73.

Y y y 2,

S. flammea. Lath. ind. orn. i. 60. n. 28.—Aluco. Briff. orn. 147. n. 2.—Aluco minor. Aldr. orn. i. 536. f. p. 538. Raj. av. 25. A. 1. Brun. orn. 17.—Ulula altera. Gefn. av. 775.—Alloco. Zinnan. uov. 99. t. 16. f. 85.—Tuidara. Marcgr. braf. 205.—Effraie, Frefaie. Buff. oif. i. 366. t. 26. Pl. enl. n. 440. 474.—Schlefer Eule, Perl Eule. Frifch, av. t. 97.—Barn Owl. Clayton, virgin. Phil. tranf. iii. 589.—Common barn Owl, or White Owl. Will. orn. 104. t. 13.—White Owl. Brif. 2001. n. 67. Arct. 2001. ii. 235. n. 124. Albin, av. ii. t. 11. Lewin, brit. b. 1. t. 26. Lath. fyn. i. 138. n. 26. fup. 46.

Inhabits Europe, America, and Northern Afia.—Is fourteen inches long, and weighs eleven ounces; this fpecies is held facred by the Monguls: The bill is white; the irides are dufky; the tail feathers are white on their inner webs, having obfcure dufky bars on their outer webs; the pale yellow feathers of the head, back, and wing coverts have each two grey and two white fpots placed alternately on each web; the legs are feathered, and the feet are covered with short hairs.

35. Screech Owl.—31. Strix stridula. 9.

The body is of a tawny or rusty colour, spotted and powdered with dusky; the third wing quill is longer than the rest. Scop. an. i. 22. n. 12.

S. Stridula. Lath. ind. orn. i. 58. n. 25.—Strix. Gefn. av. 738. Aldr. orn. 561. f. p. 563-Raj. av. 25. Briff. av. i. 500.—Strix orientalis. Haffelqu. it. 233.—Chat-huant. Buff. oif. i. 362. t. 25. Pl. enl. n. 437.—Strige. Zinnan. uov. 100. t. 16. f. 89.—Skrik Uggla. Faun. fuec. n. 77.—Braune oder ftock Eule, Gelbliche oder braune Eule. Frifch, av. t. 95. 96.—Ivy Owl, or Common brown Owl. Will. orn. 102. t. 14.—Tawny Owl. Brit. 2001. n. 68. Lewin, brit. b. i. t. 27. Arct. 2001. ii. 237. B. Lath. fyn. i. 139. n. 27.

Inhabits Europe, and Tartary, perhaps likewife in Hudson's Bay.—Is fifteen inches long, and weighs nineteen ounces; the breast and belly are yellowish, mixed with white, and streaked longitudinally with dusky; the tail is blotched, barred, and spotted with black and pale rusty; the irides are dusky; the legs, feet, and toes are feathered to the claws.

36. Brown Owl.—32. Strix Ulula. 10.

The body is brown above, with white spots; the tail quills are marked with very narrow white bars. Faun. suec. n. 78. Nozem. vog. t. 33. 34.

S. Ulula. Lath. ind. orn. i. 60. n. 27.—Noctua major. Briff. av. i. 511.—Noctua faxatilis. Gefn. av. 622. Aldr. orn. i. 545.—Chouette, Grand Cheveche. Buff. oif. i. 372. t. 27. Pl. enl. 438.—Grey Owl. Will. orn. 103.—Great brown Owl. Albin. iii. t. 7.—Brown Owl. Brit 2001. n. 69. Arct. 2001. ii. 236. n. 125. Lath. fyn. i. 140. n. 28.—Ulula flammeata, Stein Eule. Frifch, av. t. 98.

β. Leffer Brown Owl.—32. β. S. Ulula minar.

Of a smaller fize.

239

240

241

Noctua minor aucuparia. Nozem. nederl. vog. t. 37.

Inhabits Europe and Newfoundland.—This species measures fourteen inches long, but the Leffer variety is considerably smaller: The head, wings, and back have black spots; the shoulders and wing coverts

coverts are spotted with white; the breast is pale ash colour, with dusky, jagged, longitudinal streaks; the irides are chesnut; the feet are feathered to the claws.

The description in Mr Latham's Index differs so considerably from this, though he refers to the same authorities, that it has certainly been taken from a different variety, perhaps even from a different species; it is necessary however to observe that he marks some of the quotations with a note of interrogation, thereby denoting his own doubts of the identity: According to him, "the upper parts of the body are reddish, with longitudinally disposed brown spots; the under parts are whitish, with small brown streaks; the tail is barred with brown; the irides are yellow."

37. Arctic Owl.—Strix arctica.

Of a rusty brown colour, spotted with black on the upper, and streaked with narrow brown lines on the under parts of the body; the bill, the orbits, and a band under the wings, are brown. Sparrm. mus. carls. fasc. ii. t. 51.

S. Ulula arctica. Lath. ind. orn. i. 60. n. 27. 3.

242

243

244

Inhabits the northern provinces of Sweden.—This species is eighteen inches long; the irides are yellow; the tail is barred with black and rusty; the legs and feet are white, with black claws.

38. Canadian Owl.—33. Strix funerea. 11.

Of a brown colour, with a few large white spots above; the under parts are white, with transverse narrow brown bars; the tail is very long, with broad bars of brown, and narrow white bars.

S. funerea. Faun, suec. n. 75. Lath. ind. orn. i. 62. n. 35. Phil. trans. lxi. 385.—Strix canadensis. Briff. orn. 151. n. 6.— Noctua canadensis. Ger. orn. i. 88. t. 90.—Chat-huant de canada. Briff. av. i. 518. n. 6. t. 37. f. 2.—Chouette de canada, Grand Cheveche de canada. Buff. ois. i. 391. n. 5.—Canada Owl. Lath. syn. i. 142. n. 29.

Inhabits Europe and North America.—The head is black, with fmall white fpots; the upper mandible of the bill is white; the five outer primary wing quills are not fpotted on their outer webs; the middle tail quills are flightly whitish at the tips; the irides are yellow.

39. Hudsons Owl .- 34. Strix budsonia. 34.

The brown feathers of the upper parts of the body are edged with white; the under parts are white, with narrow, transverse, black lines; the bill and irides are orange yellow.

S. funerea hudsonia. Lath. ind. orn. i. 62. n. 35. β .—Strix freti hudsonis. Briss. orn. 151. n. 7.—Strix noctuaeformis, f. Falco noctuaeformis. Ger. orn. i. 91. t. 98.—Caparacoch. Buff. ois. 385. n. 2.—Little Hawk Owl. Edw. av. ii. t. 62.—Hawk Owl, Cabetituch. Arct. zool. ii. 234. n. 123. Lath. syn. i. 143. n. 30.

Inhabits Hudson's Bay.—This species, which is hardly larger than the Sparrow Hawk, goes about during the day in search of prey: The crown is brown, spotted with white; the face is white, mixed with

with brown, and edged round with black; the rump is brown, with paler bars; the tail and wings are long.

245 \ 40. Ural Owl.—35. Strix uralensis. 35.

The body is white, each feather having an oblong longitudinal brown spot in the middle. Lepech. it. ii. t. 3. Pall. it. i. 455. n. 7.

S. funerea uralensis. Lath. ind. orn. i. 63. n. 35. γ .—Chouette à longue queue, de siberie. Pl. enl. n. 463.—Ural Owl. Lath. syn. i. 148. n. 37.

Inhabits the Uralian mountains in Siberia.—This fpecies is about the fize of a Hen: The bill is pale waxen yellow; the irides and eyelids are black; the orbits are ash coloured; the rump is white; the tail is long and wedge shaped. These two last species are suspected to be varieties of the Canadian owl, by Dr Gmelin, and are ranked as such by Mr Latham: Mr Pennant quotes them indiscriminately without hinting at any variation.

41. Caspian Owl.—36. Strix accipitrina. 36.

The body is yellowish above; its under parts are yellowish white, having each side smeared longitudinally with blackish, and the belly is dotted with black; the irides are citron yellow. Pall. it. i. 455. n. 6. S. G. Gmel. it. ii. 163. t. 9.

S. Ulula accipitrina. Lath. ind. orn. i. 60. n. 27. 7.—Cafpian Owl. Lath. fyn. i. 147. n. 36.

Inhabits near the Caspian.—This species is of the same size with the Brown Owl, of which it is reckoned a variety by Mr Latham; by Mr Pennant it is quoted as a synonime of the Canadian Owl, and Dr Gmelin suspects it may be a variety of that species. The bill is black; the under surfaces of the wings and the ventlet are white; the wing quill feathers are yellowish outwardly, and white, chequered with black, on their under surfaces; the tail is blackish, rounded, shorter than the wings, barred with white, and whitish at the sides.

247 42. Java Owl.—37. Strix javanica. 37.

Of an ash colour, reddish in some parts, with white and black spots; the under parts are dirty white, reddish in some parts, and spotted with black. De Wurmb, in Lichtenb. magaz. iv. 2. 10. Lath. ind. orn. i. 64. n. 39.

Inhabits Java.-Its fize is not mentioned.

248 43. New-zealand Owl.—Strix novae-seelandiae.

Of a brown colour, the feathers being edged with tawny; the orbits are tawny; the tail is brown, with paler bars.

S. fulva. Lath. ind. orn. i. 65. n. 45.-New-zealand Owl. Lath. fyn. fup. 48. n. 39.

β. Spotted New-zealand Owl.—S. novae seelandiae maculata.

Of a brown colour above, with white spots; the under parts are tawny.

25 I

252

253

S. novae-feelandiae. Syst. nat. ed. Gm. 296. n. 38.—S. fulva maculata. Lath. ind. orn. i. 65. n. 45. p.—New-zealand Owl. Lath. syn. i. 149. n. 39.

RAPACIOUS.

Inhabits New-zealand.—This species is about eleven inches long; Mr Latham suspects that the two varieties may be different sexes; in the first the hinder part of the back, the rump, and the ventlet are brown, without any spots; the thighs are brown, with white spots; in both the bill is black at the tip, and the eyes are yellow.

44. Cayenne Owl. - 39. Strix cayennensis. 39.

The body is longitudinally streaked with reddish, and waved transversely with brown; the irides are tawny yellow.

S. cayennensis. Lath. ind. orn. i. 64. n. 41.—Chat-huant de Cayenne. Buff. ois. i. 391. Pl. enl. n. 442.—Cayenne Owl. Lath. syn. i. 146. n. 35.

Inhabits Cayenne.—This species is of the same size with the Screech Owl; the bill is of a pale horn colour; the claws are black.

45. Domingo Owl.-40. Strix dominicensis. 40.

The under parts of the body are reddish; the breast is slightly spotted.

S. dominicensis. Lath. ind. orn. i. 64. n. 40.—Chouette de S. Domingue, Grand Cheveche de S. Domingue. Buff. ois. i. 392. n. 6.—St. Domingo Owl. Lath. syn. i. 146. n. 34.

Inhabits the island of Saint Domingo.—This species has considerable resemblance to the Brown-Owl, but the bill is considerably larger, stronger, and more hooked; the spots on the breast are diftant, and disposed longitudinally.

46. New-spain Owl .- 41. Strix Tolchiquatli. 41.

The body is black above, variegated with pale yellow, white, and tawny; its under parts are white; the irides are pale yellow.

S. Tolchiquatli. Lath. ind. orn. i. 63. n. 37.—Noctua mexicana. Briff. orn. 153. n. 10.—Chouette de Mexique. Briff. av. i. 524. n. 10.—Tolchiquatli. Raj. av. 160.—New-spain Owl. Lath. syn. i. 145. n. 32.

Inhabits New Spain.—The bill, claws, and wing coverts are black; the plumage is very thickly fet.

47. Chichielli Owl.—42. Strix Chichielli. 42.

Is tawny, variegated with white, brown, and black; the eyes are black, and the eyelids blue.

S. Chichictli. Lath. ind. orn. i. 63. n. 36.—S. Mexicana. Briff. orn. 152. n. 9.—Chat-huant de Mexique. Briff. av. i. 523. n. 9.—Chichictli. Raj. av. 160.—Mexican Owl. Lath. fyn. i. 144. n. 31.

Inhabits Mexico and New-spain .- This species is about the fize of a common Herr-

48. Acadian Owl. - 43. Strix acadica. 43.

The upper part of the body is bright bay, or reddish brown, with white spots; the under parts being white, mixed with rusty.

S. acadica. Lath. ind. orn. i. 65. n. 44.—Acadian Owl. Lath. fyn. i. 149. n. 38. t. 5. f. 2.

Inhabits Acadia, or Nova Scotia, and other parts of North America.—This species measures seven inches in length: The bill is dusky; the irides are yellow; the crown of the head is spotted with paler colour; the region of the eyes is ash coloured; the toes are brown.

255

49. Little Owl. -44. Strix passerina. 12.

The wing quills have five rows of white spots.

S. pafferina. Lath. ind. orn. i. 65. n. 46.—Noctua minor. Briff. av. i. 514. Raj. av. 26. n. 6.—Noctua minima. Gefn. av. 620. Aldr. orn. i. 543. f. p. 544.—Cheveche, Petite Chouette. Buff. oif. i. 377. t. 28. Pl. enl. 439.—Little Owl. Brit. 2001. n. 70. Albin. ii. t. 12. Will. orn. 105. t. 13. Lewin, brit. b. i. t. 29. Edw. av. t. 228. Lath. fyn. i. 150. n. 40.—Civetta. Olin. 65. Cetti, uc. fard. 66. Zinnan, uov. 97. t. 16. f. 4.—Klenistes Kauzlein. Frisch, av. t. 100.

Inhabits Europe and North America.—This species is from seven to eight inches in length; it is remarkably solitary, and only goes out at night, preying on bats, mice, and grashoppers; it builds its nest either in the hollows of decayed firs, or half way up among the thickest branches: The bill is whitish brown; the head, back, and the wing coverts are light brown, with white spots; the breast is whitish, variegated with rusty; the irides are pale yellow; the tail is barred with white, and all its quill seathers are marked with regularly disposed round white spots; the feet are feathered to the claws.

256

β. American Little Owl.—S. passerina americana.

Is confiderably finaller; the eyes are furrounded with white circles; the plumage has fewer white fpots.

Shipmofpish. Arct. zool. ii. p. 236.

257

y. Russian Little Owl .- 44. B. S. passerina rossica.

Is confiderably larger; the wings are variegated with brown and yellow. Lath. ind. orn. i. 66. n. 46. s.

Noctua minor. S. G. Gmelin, in Nov. com. petr. xv. 447. t. 12.

Inhabits the Ruslian Empire.—This variety is twelve inches long; the belly is mixed with yellow; the chin is white.

IV. SHRIKE.-4. LANIUS. 44.

The bill is mostly straight, being only a little hooked at the end; each mandible, near the end, is armed with a sharp tooth-

tooth-like process; the base is naked: The tongue is jagged, as if torn at the extremity.

This genus forms a link of the chain of being, connecting the order of Rapacious birds with those which are called Pies; it agrees with the former in the strength, and, in some degree, the form of the bill, and in living by prey; while it resembles the latter in its general manners and appearance, in the form of its tongue and tail, and in the structure of its feet; it comes nearest in general form to the Magpie, and is named Pie-griesche by the French ornithologists. The nostrils are generally round, and covered with stiff bristles; the toes are divided to their origin, except the middle one, which is slightly connected to the outer toe; the tail is, for the most part, though not always, wedge-like, or longer in the middle than at the sides, the middle rising higher than the rest, and the sides doubled down. In general, the birds of this genus are noisy and quarressome, from which circumstance they are called Wranglers, Wariangles*, in old English writers; they prey on small birds and insects, and tear their prey to pieces, sticking the fragments on thorns, whence they get the name of Butcher birds; but in system the single appellation of Shrike is preferable, derived from their noisy manners. They are found in all quarters of the world, and in all climates, except within the Arctic circle.

258

1. Drongo Shrike.—1. Lanius forficatus. 1.

The tail is forked; the forehead is ornamented with an erected crest; the plumage is greenish black.

I. forficatus. Lath. ind. orn. i. 66. n. 1.—Muscicapa madagascariensis cristata, Brist. av. ii. 388. n. 16. t. 37. f. 4.—Drongo. Buff. ois. iv. 586.—Gobe-mouche huppé, de madagascar. Pl. enl. n. 189.—Crested fork-tailed Shrike. Lath. syn. i. 158. n. 1.

Inhabits the Cape of Good Hope, Madagascar, and China.—This species is ten inches long; the crest is erected from the forehead, just behind the base of the bill, but is sometimes wanting, perhaps in semale specimens; the tail is long.

259

2. Malabar Shrike.—Lanius malabaricus.

Of a bluish black colour, the tail and the wing quills being black; the outer tail quill of each side is very long and has no webs, except on the outer side near the extremity. Lath. ind. orn. i. 66. n. 2.

Drongo de malabar. Buff. oif. iv. 587.—Gobe-mouche de malabar. Sonner. it. ii. t. 111.—Malabar Shrike. Lath. fyn. fup. 56. t. 108.

Inhabits Malabar.—This species is seventeen inches and a half long; the feathers of the head and neck are very narrow; in some specimens the head is ornamented with a very large, woolly, pendent crest, which covers the whole top of the head.

3.

· Vol. I.

^{*} Chaucer's Freres tale, as quoted by Mr Pennant, who explains the term as above, though perhaps the German name Wurch-angel, Worrying, or Suffocating, angel, i. e. Devil, may be a better etymology of Chaucer's expression.—T.

3. Fingah Shrike. - 2. Lanius caerulescens. 2.

The tail is forked; the body is bluish black above, and the belly is white.

L. caerulescens. Lath. ind. orn. i. 67. n. 3.—L. bengalensis. Briss. av. ii. 189. Klein, av. 54. n. 8. Ger. orn. i. 74. t. 57. f. 1.—Fingah. Buff. oif. i. 108.—Fork-tailed indian Butcher-bird. Edw. av. t. 56.—Fork-tailed Shrike. Lath. fyn. i. 158. n. 2.

RAPACIOUS.

Inhabits Bengal.—This species is seven inches and a half long, and, notwithstanding its smallness; is extremely troublesome to crows: The breast is of a dusky ash colour.

261 4. Chesnut Shrike. - 3. Lanius castaneus. 5.

The tail is wedge-like; the upper part of the body is chefnut, its under parts being white.

L. caftaneus. Lath. ind. orn. i. 67. n. 4.—Chefnut-backed Shrike. Lath. fyn. i. 159. n. 3.

Its place uncertain.—This species is eleven inches long; the bill, wings, and legs are black; the fore-head is blackish brown; the crown, hind head, nape, and scrag are ash coloured; the middle tail quills are black, with ash coloured tips, and the outmost tail quills are entirely ash coloured.

262 5. Crested Shrike. - 4. Lanius cristatus. 3.

The tail is wedge-like; the head is crested; the body is reddish, its under parts being waved with brown and tawny.

L. criftatus. Lath. ind. orn. i. 72. n. 17.—L. bengalenfis rufus. Briff. av. ii. 173.—Crefted red Butcher-bird. Edw. av. t. 54.—Crefted red Shrike.—Lath. fyn. i. 170. n. 18.

Inhabits Bengal.—This species measures six inches and a half long; it is sometimes found without a creft, perhaps the crefted specimens may be the males, and those without crefts the females: The bill is pale horn colour; near the eye, on each fide, the cheek is marked with a fmall femilunar. black spot; the tail is reddish above, and grey beneath; the legs, feet, and claws are black.

263 6. Canadian Shrike .- 5. Lanius canadensis. 4.

The tail is wedge-like; the head is crested; the body is reddish above, and whitish ash coloured beneath.

L. canadenfis. Lath. ind. orn. i. 72. n. 18. Briff. av. ii. 171. t. 18. f. 3. Ger. orn. i. 75. t. 62. £ 2.—Pie-griesche huppé de Canada. Buff. ois. i. 316. Pl. enl. n. 479. f. 2.—Crested Shrike. Lath. fyn. i. 182. n. 35. Arct. zool. ii. 239. n. 129.

Inhabits Canada.—The bill and claws are black; the creft is reddift; the cheeks are dufky, with white spots; the throat and breast are yellowish red; the belly is whitish, or ash coloured; the wing coverts are black, edged with white; the primary wing quills are edged with white on their outer webs; the tail is black, edged on each fide, and tipt with white.

7. Louisiana Shrike. - 6. Lanius ludovicianus. 6.

Of an ash colour, with a wedge-like tail; the wing quills are black; the outer tail quills are white at the tips and roots.

L. ludovicianus. Lath. ind. orn. i. 69. n. 8. Briff. av. ii. 162. t. 15. f. 2.—Pie-griesche de la Louisiane. Pl. enl. n. 397.—Louisiane Shrike. Lath. syn. i. 162. n. 5.

Inhabits Louisiana.—This species is a good deal allied to the Cinereous and the Butcher species: Under each eye is a black bar; the fix middle tail feathers are entirely black; the rest are white at both ends, and black in the middle; the secondary wing quills are white at the tips.

265

8. Grey Shrike .- 7. Lanius Nengeta. 7.

The tail is wedge-like, and white at the tip; the body is ash coloured, its under parts being whitish.

L. Nengeta. Lath. ind. orn. i. 68. n. 7.—Cotinga cinerea. Briff. av. ii. 353.—Guiraru. Buff. oif. iv. 459.—Guiraru Nhengeta. Marcgr. braf. 209. Raj. av. 166. n. 5.—Guiraru, or American Chat. Will. orn. 235:—Grey Pye of Brafil. Edw. av. t. 318.—Grey Shrike. Lath. fyn. i. 183. n. 36. Arct. 200l. ii. 240. A.

Inhabits Brafil, Surinam, Guiana, Russia, and Siberia.—This species is nine inches long; it frequents marshy places, and is gregarious; the irides are light sea-green; the wings, tail, and feet are blackish; on each side of the head a black line rises from the base of the bill, and stretches through the orbits to the hind head; the wing coverts are black, tipt with dirty white; the primary wing quills are black; the ends of the outer tail quills are white.

266

9. Hook-billed Shrike. - 8. Lanius curvirostris. 8.

The tail is wedge-like; the body is white; the back is black; the five outer primary wing quills have each a white spot.

L. curvirostris. Lath. ind. orn. i. 72. n. 15.—Collurio madagascariensis. Briss. av. ii. 191. t. 19. f. 1.—Vanga, ou Becarde à ventre blanc. Buss. ois. i. 312.—Ecorcheur de Madagascar. Pl. enl. n. 228.

Inhabits Madagafcar.—This species is ten inches long; it lives much on fruits: The points of both mandibles of the bill are bent backwards; the hind head is greenish black; the greater wing coverts are obliquely spotted with white; the inner webs of the tail quills are ash coloured, their outer webs are black, and the tips are white; the legs and feet are leaden coloured, and the claws are blackish.

267

10. Collared Shrike .- 9. Lanius collaris, 9.

The tail is wedge-like; the body is black above and white beneath; the primary wing quills are white at the base.

L. collaris. Lath. ind. orn. i. 69. n. 10.—L. capitis bonae spei. Briss. av. ii. 182. t. 15. f. 1.—Pie-griesche du cap. Pl. enl. 477.-f. 1.—Collared Shrike. Lath. syn. i. 163. n. 7.

Zzz2

Inhabits the Cape of Good Hope.—Is about the fize of the Butcher Shrike, measuring twelve-inches long: The head and bill are blackish; the four middle tail quills are entirely black, the rest being white at the tips.

268 11. Luzonian Shrike.—10. Lanius lucionensis. 10.

544

The tail is wedge-like; the body is reddish grey, the tail being barred with brown at the end; the sides of the head have each a black spot behind the eyes.

L. lucionenfis. Lath. ind. orn. i. 67. n. 5. Briff. av. ii. 169. t. 18. f. 1.—Luzonian Shrike. Lath. fyn. i. 172. n. 21.

Inhabits the island of Luzonia.—Is seven inches and a half long; the bill and upper parts of the body are brownish grey; the under parts and sides of the body are reddish white.

269 12. Great Shrike. - 11. Lanius Excubitor. 11.

The tail is wedge-like, with white fides; the back is hoary; the wings are black, with a white band. Scop. an. i. 23. n. 18.

L. Excubitor. Lath. ind. orn. i. 67. n. 6.—L. cinereus. Briff. av. ii. 141.—L. cinereus majors. Gefn. av. 579. Aldr. orn. i. 384. f. p. 386. Raj. av. 18.—Falco congener. Klein, stem. 9. t. 9. f. 1. a. b. c.—Ampelis caerulescens. Faun. succ. n. 181.—Castrica palombina. Olin. uccell. t. 41.—Ferlotta berettina. Zinnan. uov. 90. t. 19. f. 80.—Falconetti. Cett. uc. sard. 54.—Warfoger. Faun. succ. n. 80.—Neuntoeder. Frisch, av. t. 60.—Pie-griesche grise. Buff. ois. i. 296. t. 20. Pl. enl. n. 445.—White Whisky-john. Phil. trans. lxii. 386.—Mattages, or Greater Butcher-bird. Will. orn. 87. t. 10. Albin. av. ii. t. 13. Ellis, voy. ii. 28.—Great Shrike. Brit. 2001. n. 71. t. 33. Arct. 2001. ii. 238. n. 127. Catesb. carol. app. 36. Lewin, brit. b. i. t. 30.—Great cinereous Shrike. Lath. syn. i. 160. n. 4.

Inhabits Europe and North America.—This species lives in the woods, and is among the first to breed in spring; it preys on small birds, which it strangles, or kills by crushing their heads with its bill, after which it sticks their bodies on a thorn and tears them to pieces; from this practice the genus has been called Butcher-birds; it is said to watch the coming of Hawks, and to give them notice of birds concealed, that it may share in preying on such as it cannot master; it builds a nest of dry grass, lined thickly with feathers, in which it lays seven bluish eggs, which are spotted with brown. The bill and legs are black; the crown and scrag of the neck are hoary; the cheeks are white, with a black transverse line from the base of the bill; the lower parts of the body are white; the thighs are pale brown; the lesser wing coverts are black; the tail quills are black, and all, except the two middle ones, are tipt with white; this whiteness increases to the outermost, which is almost entirely white. The female has a brown bar behind each eye.

β. White Great Shrike .-- 11. β. L. Excubitor albus.

The whole body is white; the legs are yellowish; the bill and claws are black. Lathind. orn. i. 68. n. 6. 7. Syn. i. 162.

L. albus. Briff. av. ii. 145. A.

270

Shrike.

273

γ. Larger Great Shrike.—11. γ. L. Excubitor major.

The leffer wing coverts and the shoulders are reddish. Lath. ind. orn. i. 68. n. 6. s.

L. cinereus major. Briff. av. ii. 146. n. 2.—Groeferer Neuntoeder. Frifch, av. t. 59.—Gefners great Butcher-bird. Will. orn. 88.

These two varieties are found in Europe along with the first.

13. Butcher Shrike.—12. Lanius Collurio. 12.

The tail is fomewhat wedge-shaped; the back is grey; the four middle tail quills are of a uniform grey colour; the bill is leaden coloured. Faun. suc. n. 81.

L. Collurio. Scop. an. i. 24. n. 19. Nozem. nederl. vog. t. 65. Gunth. neft. t. 23. Lath. ind. orn. i. 69. n. 11.—Lanius minor rufus. Raj. av. 18. A. 4.—Mcrulae congener. Raj. av. 67. n. 13. Will. orn. 195. n. 3.—Collurio. Briff. av. ii. 152.—Ecorcheur. Buff. oif. i. 304. t. 21. Pl. enl. n. 31. f. 2.—Flefher, or Leffer Butcher-bird. Will. orn. angl. 88. Alb. av. ii. t. 14.—Red-backed Shrike. Brit. 2001. n. 72. Lewin, brit. b. i. t. 30. Arct. 2001. ii. 240. n. 131. Lath. fyn. i. 167. n. 25. fup. 52.—Ferlotta roffa. Zinnan. uov. 91. t. 15. f. 81.

Inhabits Europe.—This species is about seven inches and a half long; it is migratory in England, where it arrives in May, and departs in September or October: It preys on small birds, killing them by piercing the skull with its bill; it feeds likewise on beetles, grashoppers, and various other infects, which it frequently transfixes on a thorn of the Sloe, and tears in pieces; and imitates the cries of other birds on purpose to entrap them. On each cheek a black line, rising from the base of the bill, passes through the region of the eyes: In the semale, the head is reddish grey, and the cross line on each cheek is reddish brown; the lower parts of the body are whitish, with transverse blackish semi-lunar spots; the tail quills are brown, the outer ones being white on their exterior webs. The semale lays six white eggs, which have a circle of reddish brown towards the broad end; she builds in hedges and bushes.

Mr Pennant describes this species somewhat differently in his Arctic Zoology: The crown and rump are grey; the back and wing coverts rusty; the breast and belly rose coloured; the tail is black, the exterior quills being edged with white: The female is of a dirty rust colour; her breast and belly dirty white, with dusky semicircular lines; both have the black line on the cheeks. Perhaps this description refers to a different variety, which might be named Arctic Butcher Shrike.

β. Variegated Butcher Shrike. — 12. β. L. Collurio varius.

Of a grey colour, the under parts reddish, with brown streaks; the scapulars are half white, half black; the three outermost tail quills are reddish white at the base and tips, the outermost being reddish white on its outer web. Lath. ind. orn. i. 70. n. 11. 8,2

L. arundinum. Klein, av. 54. n. 10.—Collurio varius. Briff. orn. 201. n. 5.—Variegated Shrike. Lath. fyn. i. 168. n. 16.—Leffer variegated Butcher-bird. Will. orn. 189.

Mr Latham suspects that this variety may possibly be the female of the former; it wants the crossline on the cheeks.

277

278

RAPACIOUS.

274 y. Red Butcher Shrike. - 12. y. L. Collurio rufus.

The body is variegated above with reddish, white, and black; its under parts are reddish white.

L. rufus. Briff. orn. 199. n. 3.—L. rutilus. Lath. fyn. i. 70. n. 12.—L. minor einarefeens. Raj. av. 19. A. 6.—Ampelis dorfo grifeo. Faun. fuec. i. 180. t. 2.—Ampelis tertia. Kram. el. 363.—Buferola, Ferlotta bianea. Zinnan, uov. 89. t. 15. f. 79.—Pie-griesche rousse. Buff. ois. i. 103. Pl. enl. n. 9. f. 2. and n. 31. f. 1.—Other Butcher-bird. Will. orn. ang. 89. § 4.—Wood-Chat. Brit. zool. n. 73. Lewin, brit. b. i. t. 32. Alb. av. ii. t. 16. Lath. fyn. i. 169. n. 27.

Inhabits with the former.—Is of the fame fize with the Common Butcher Shrike, and has the fame manners: The *female* is reddifh, transversely streaked with brown, and marked on the under parts with brown femilunar spots; the tail quills are barred with brown; the eggs are pale rusty, elouded with ash eolour.

S. Senegal Butcher Shrike.—12. S. L. Collurio senegalensis.

The scapulars are of the same reddish colour with the body; the bases of the wing quills are spotted with white.

L. rutilus fenegalensis. Lath. ind. orn. i. 71. n. 12. β .—Pie-griesche rousse du Senegal. Pl. enl. n. 477. f. 2.—Senegal Wood-Chat. Lath. syn. i. 170. n. 17. A.

Inhabits Senegal.

276 s. Black-crowned Butcher Shrike .- 12. s. L. Collurio melanocephalus.

The head is black; the tail is a good deal longer than in the former varieties.

L. rutilus melanocephalus. Lath. ind. orn. i. 71. n. 12. y.—Pie-griesche à tete noir du Senegal. Pl. enl. n. 474.—Black-headed Senegal Wood-Chat. Lath. syn. i. 170. n. 17. B.

Inhabits Senegal.

14. Antiguan Shrike. - 13. Lanius antiguanus. 29.

The tail is long and wedge-like; the body is yellowish red above, and white below; the head, bill, wings, legs and feet, and upper surface of the tail, are black.

L. antiguanus. Lath. ind. orn. i. 72. n. 16.—Pie-griefche d'Antigue. Sonner. voy. 114. t. 70.—Antiguan Shrike. Lath. fyn. i. 171. n. 20.

Inhabits Luzonia and Panay, in the Philippine ifles.—Is of the fame fize with the Butcher Shrike: The upper mandible of the bill is remarkably longer than the lower, and is very much hooked; the wings are fhort; the two middle tail quills are entirely black, but the reft are reddish on their lower furfaces, and red at the points.

15. Black Shrike .- 14. Lanius niger. 30.

Of a black colour; the fecondary wing quills being edged on their outer webs with brown; the tail is fomewhat wedge-like.

L. niger. Lath. ind. orn. i. 73. n. 21.—Black Shrike. Lath. fyn. i. 187. n. 38.

280

Inhabits Jamaica.—Is feven inches long; the bill is an inch in length, and refembles that of the Tyrant Shrike.

16. Levers Shrike.—15. Lanius Leverianus. 31.

The tail is long, wedge-like, and white at the tip; the bill, head, neck, the middle of the breaft, the wings, legs, and feet, are black; all the other parts are white.

L. picatus. Lath. ind. orn. i. 73. n. 20.—Magpie Shrike. Lath. fyn. i. 192. n. 49. fup. 54.

Inhabits South America.—This species is about the size of a Blackbird, and has a strong resemblance to the Magpie, in colours and general appearance; it is ten inches long; the feathers of the greater wing coverts, and the secondary wing quills are edged with white; the two middle tail quills are four inches and a half long, while the rest are only two inches; all of them are black, with white tips.

17. Surinam Shrike.—16. Lanius atricapillus. 32.

The tail is black and wedge-like; the crown, fcrag, shoulders, and the wings, are black; the rest of the upper parts are mouse coloured; the under parts are bluish ash.

L. atricapillus. Merrem, beytr. ii. 30. t. 10. Lath. ind. orn. i. 73. n. 19.

Inhabits Surinam.—Is about the fize of a Linnet, fcarcely exceeding five inches in length; the wings are fhort; the feathers of the wing coverts, and the fecondary wing quills are edged with black; the tail quills are tipt with white, except the two middle ones. Except in fize it feems much allied to the former species.

281 18. Pomeranian Shrike.—17. Lanius pomeranus. 33.

The upper parts of the body are black, the lower parts white; the hind head and the forag are dark rusty, surrounded with black; the rump is white; each wing is marked with two black spots. Must carls no i. t. 1...

Inhabits Pomerania.—The bill, legs, and feet, and the wings are black; the two outer tail quills are white; the next two or three, on each fide, are whitish from the base to their middles, and tipt with white. Mr Latham quotes this as a synonime to the Red Butcher Shrike, No. 274, but the difference is very conspicuous.

282 Tyrant Shrike.—18. Lanius Tyrannus. 13.

Is ash coloured above, and white beneath; the crown is black, with longitudinal tawny streaks.

L. Tyrannus. Lath. ind. orn. i. 81. n. 53.—Muscicapa Tyrannus. Briss. av. ii. 397.—Tyran. Pl. enl. n. 537.—Tiriri, Pipiri. Bust. ois. iv. 572.—Picus cristata americana, Kleiner americanischer Neuntoeder. Frisch, av. t. 62.—Tyrant Shrike. Lath. syn. i. 184. n. 37.—Tyrant Fly-catcher. Arct. 2001. ii. 384. n. 263.

Inhabits America.—Is eight inches long; it is migratory, appearing in Carolina and Virginia, about April, where it breeds, and retires before winter; it builds in the hollows of trees, and, while the fe-

male

male fits on the eggs and rears her young, the male is aftonishingly bold and impetuous in attacking and driving away other birds, even fixing on the backs of Eagles, Hawks, and Crows, perfecuting them, and uttering a continual chattering note with great vehemence, till they are forced to retire; Mr Pennant adds that the bill is foft, and that it only feeds on infects, and accordingly ranks it among Fly-catchers, Muscicapae. The bill, legs, feet, and claws are blackish brown; the irides are brown; the longitudinal streak on the head is composed of tawny feathers, with blackish tips; Mr Pennant describes this streak as being scarlet; in some instances, said by Mr Latham to be the females, it is

283 B. Domingo Tyrant Shrike.—18. B. L. Tyrannus dominicensis.

- yellow; the tail is brown, edged with reddish.

Of a brown grey colour above, and white below, with the breast ash coloured. Lath, ind. orn. i. 81. n. 53. \(\beta\).

Tyrannus dominicensis. Briff. av. ii. 394. n. 19. t. 18. f. 2.—St. Domingo Tyrant. Lath. fyn. i. 185. n. 37. A.

Inhabits St Domingo.—The tail quills are reddish on their outer webs, and at the tips.

284 y. Carolina Tyrant Shrike. - 18. y. L. Tyrannus carolinensis.

Of an ash colour above, and white beneath; the head and tail are black, the last being tipt with white. Lath. ind. orn. i. 82. n. 53. 7.

Tyran de la Caroline. Buff. oif. iv. 577.—Gobe-mouche de la Caroline. Pl. enl. n. 676.—Carolina Tyrant. Catefb. carol. i. t. 55. Lath. fyn. i. 186. n. 37. B.

Inhabits Carolina.

286

285 S. Louisiana Tyrant Shrike.—18. S. L. Tyrannus ludovicianus.

Of a leaden colour above, and white below. Lath. ind. orn. i. 82. n. 53. &

Tyran de la Louisiane. Buff. oif. iv. 579.—Gobe-mouche de la Louisiane. Pl. enl. n. 676.—Louisiana Tyrant. Lath. syn. i. 186. n. 37. c. Arct. zool. ii. 385. n. 264.

Inhabits Louisiana.—The bill is long, flat, hooked at the end, and black; the head and back are brownish ash; the throat is slaty blue; the belly is yellowish; the primary wing quills are bright bay; these, with the larger wing coverts, are edged with white; the tail is long, of a brown ash colour, and white at the sides and tip.

20. Chinese Shrike.-19. Lanius Schach. 14.

Is yellow; with a black forehead and black wings. Lath. ind. orn. i. 75. n. 25. Ofb. voy. 227.

Chinese Shrike. Lath. fyn. i. 173. n. 22.

Inhabits China.—Is of the fame fize with the Tyrant Shrike; the head and back of the neck are grey; the under part of the neck is dull reddiff white; the back and belly are pale dufky red; the wing quills are black, the primaries being white at the bafe, and the fecondaries whitifh at the tips.

21. Brasilian Shrike.—20. Lanius Pitangua. 15.

Is black above, and yellow beneath; the crown is marked with a tawny streak, and a white bar runs across the orbits.

L. Pitangua. Lath. ind. orn. i. 78. n. 42.—Tyrannus brafilierfis. Briff. av. ii. 401. t. 36. f. 5.— Pitangua guacu, Marcgr. braf. 216. Raj. av. 165.—Pitangua guacu, or Bemtere. Will. orn. angl. 198. Id. lat. 146. t. 38.—Bentaveo, Cuiriri. Buff. oif. iv. 579. t. 27.—Tyran de Bréfil. Pl. enl. n. 212.—Brafilian Tyrant. Lath. fyn. i. 187. n. 39.

Inhabits Brafil.—Is nine inches long; the bill is ftrong; the cheeks are each marked with a brown fpot below the eyes; the chin is white; the feathers on the upper parts of the body are edged with yellow; the under furfaces of the wings are yellow; the tail is brown, edged with reddifh, its under furface being olive yellow.

288

22. Rufous Shrike .- 21. Lanius rufus. 17.

Of a red, or rufous, colour above, and white beneath; the head is greenish black.

L. rufus. Lath. ind. orn. i. 77. n. 35.—L. madagascariensis rufus. Briss. av. ii. 178. t. 18. f. 4. Ger. orn. i. 75. t. 59. f. 1.—Schet-be. Buff. oif. i. 313.—Pie-griefche rouffe de Madagafcar. Pl. enl. n. 298. f. 2.—Rufous Shrike. Lath. fyn. i. 180. n. 31.

Inhabits Madagafcar.—Is nearly eight inches long; the bill, legs, feet, and claws are leaden grey, or pale horn colour; the head and neck are black with a greenish gloss; on the female this is less fplendid, and the fore part of the neck is grey.

289

23. Barbary Shrike .- 22. Lanius barbarus. 18.

Is black above, and red beneath; the crown and thighs are tawny.

L. barbarus. Lath. ind. orn. i. 79. n. 45.—L. fenegalensis ruber. Briss. av. ii. 185. t. 17. f. 2.— Gonolak. Buff. oif. i. 314.—Pie-griefche de Senegal. Pl. enl. n. 56.—Barbary Shrike. Lath. fyn. i. 173, n. 23.

Inhabits Senegal.—Is near nine inches long; the bill, tail, legs, feet, and claws are black; the head, scrag, ventlet or under side of the rump, and the lower wing coverts are yellow.

290

291

24. Yellow bellied Shrike. - 23. Lanius fulphuratus. 19.

Is brown above, and yellow beneath; the head is blackish, surrounded with a whitish fillet.

L. fulphuratus. Lath. ind. orn. i. 79. n. 43.—L. cayanensis luteus. Briff. av. ii. 176. t. 16. f. 4.—Becarde à ventre jaune. Buff. oif. i. 312.—Pie-griesche jaune de Cayenne. Pl. enl. n. 296.— Yellow-bellied Shrike. Lath. fyn. i. 188. n. 40.

Inhabits Cayenne.—Is the fize of the last; the chin and throat are white; the legs and feet are: grey; the bill and claws are blackish; the wings and tail are brown, edged with red.

25. Cayenne Shrike.—24. Lanius cayanus. 20.

Of an ash colour; the head, tail, and primary wing quills are black. Vol. I..

295

296

L. cayanus. Lath. ind. orn. i. 80. n. 47.—L. cayanensis cinereus. Briss. av. ii. 158. t. 14. f. 1.—Becarde. Buff. ois. i. 311.—Pie-griesche grise de Cayenne. Pl. enl. n. 304.—Cayenne Shrike. Lath. syn. i. 189. n. 41.

RAPACIOUS.

Inhabits Cayenne.—Is eight inches and a half long; the bill is red at the base, and black at the tip; the legs and feet are ash coloured, with black claws.

β. Spotted Cayenne Shrike.—24. β. L. cayanus naevius.

Is ash coloured; the middle of each feather being marked with a longitudinal black streak. Lath. ind. orn. i. 80. n. 47. 3.

L. cayanensis naevius. Briss. av. ii. 167. t. 17. f. 1.—Pie-griesche tachetée de Cayenne. Pl. enl. n. 377.—Spotted Cayenne Shrike. Lath. syn. i. 189. n. 41. A.

Inhabits with the former, and is of the fame fize.

293 \gamma. Lesser Cayenne Shrike.—L. cayanus minor.

Of a smaller size, and having a yellowish forehead. Lath. ind. orn. i. 80. n. 47. %. Syn. sup. 54.

Inhabits with the two former.—The belly of this variety is grey, and has no fpots; the fides of the head, near the ears, have each a reddish fpot.

26. Orange Shrike.—Lanius aurantius.

Is tawny yellow; the chin, throat, and breaft, being reddifh. Lath. ind. orn. i. 79. n. 44. Syn. fup. 57.

Inhabits Cayenne.—Is feven inches long; the head above the eyes, and the nape of the neck, are black; the wings and tail are brown; the bill is black, and the claws are pale.

27. Senegal Shrike. - 25. Lanius senegalus. 21.

Of a grey colour above, and whitish beneath; the crown, a band through the orbits, and the tail, are black.

L. fenegalus. Lath. ind. orn. i. 74. n. 24.—L. fenegalenfis cinereus. Briff. av. ii. 167. t. 17. f. 1. Ger. orn. i. 75. t. 61. f. 1.—Pie-griefche grife de Senegal. Pl. enl. n. 297. f. 1.—Senegal Shrike. Lath. fyn. i. 162. n. 6.

Inhabits Senegal.—Is nine inches long; the outer webs of the wing quills are reddifh; fix of the tail quills on each fide are flightly marked with brownish bars, and their tips are of the same general colour with their bodies; the rest are tipt with white.

28. Madagascar Shrike.—26. Lanius madagascariensis. 22.

Of an ash colour above, and whitish beneath, with black straps on the cheeks; the tail quills are reddish.

L. madagascariensis. Lath. ind. orn. i. 79. n. 46.—L. madagascariensis minor. Briss. av. ii. 264. t. 16. f. 1. 2.—Cali-calic, Bruja. Buss. oif. i. 315.—Petite Pie-griesche de Madagascar. Pl. cnl. n. 299. f. 1. 2.—Madagascar Shrike. Lath. syn. i. 174. n. 24.

Inhabits Madagafcar.—This fpecies is about the fize of a fparrow, being fcarcely five inches long; on each fide of the head the fpace between the eyes and noftrils, called the *ffraps* or *lsra*, are black; the upper wing coverts are red; the greater part of the tail quills are red: In the *male* the chin and throat are black, in the *female* this circumstance is wanting.

297

29. Bengal Shrike.—27. Lanius Emeria. 23.

Is grey above and white beneath; the temples and rump are red.

L. Emeria. Lath. ind. orn. i. 74. n. 23.—L. bengalenfis fufcus. Briff. av. ii. 175. n. 14.—Mufcicapa Emeria. Syft. nat. ed. x. 236. n. 7.—Rouge-queue. Buff. oif. i. 309.—Bengal Red-ftart. Albin. av. iii. 24. t. 56.—Indian Red-ftart. Edw. av. iv. t. 190.—Bengal Shrike. Lath. fyn. i. 175. n. 25.

Inhabits Bengal.—Is five inches and a half long; the bill is brownish ash; the irides are whitish; the belly, rump, and upper tail coverts, are red; each fide of the neck is marked with four curved spots of black; the tail is light brown; the legs, feet, and claws, are black. Mr Latham adds, that the head is somewhat crested.

298

30. Blue Shrike. - 28. Lanius bicolor. 27.

Of a blue colour above, and white below; having a black frontlet. Mantiff. 1771, p. 124.

L. bicolor. Lath. ind. orn. i. 75. n. 26.—L. madagascariensis caeruleus. Briss. av. ii. 197. t. 16. f. 3. Gerin, orn. i. 75. t. 60. f. 1.—Loxia madagascarina. Syst. nat. ed. xii. 306. n. 42.—Piegriesche bleue de Madagascar. Pl. enl. n. 32. f. 2. n. 298. f. 1.—Blue Shrike. Lath. syn. i. 178. n. 29.

Inhabits Madagascar.—This species, which lives on insects, is six inches and a half long: The head, bill, edges of the wing quills, the two middle tail quills, and the edges of the four next tail quills on each side are blue; the frontlet, or feathers which surround the base of the upper mandible, the wing quills, except at their roots, the outermost tail quills on each side, the legs, feet, and claws, are black: The female differs from the male in having much less splendid colours; her under parts are dirty white or light ash colour, and her wings are longer than those of the male. Mr Latham adds, that the tail of this species is very slightly wedge-shaped, being almost equal at the end.

299

31. Manilla Shrike .- 29. Lanius leucorhynchos. 28.

The body is blackish above, and whitish beneath; the bill and rump are white.

L. leucorhynchos. Lath. ind. orn. i. 77. n. 38. Mantiff. 1771, p. 524.—L. manillenfis. Briff. av. ii. 180. n. 17. t. 18. f. 2. Gerin, orn. i. 75. t. 62.—Longraien. Buff. oif. i. 310.—Pie-griefche de Manille. Pl. enl. n. 9. f. 1.—White-billed Shrike. Lath. fyn. i. 181. n. 33.

Inhabits Manilla.—Is feven inches long; the wings, tail, legs, feet, and claws, are black; the tail is equal.

552

32. Rusty Shrike. - 30. Lanius ferrugineus. 34.

The body is brownish black above; the throat and breast are dirty white; the belly is rusty.

L. ferrugineus. Lath. ind. orn. i. 76. n. 33.—Ferrugineus-bellied Shrike. Lath. fyn. i. 163. n. 8. fup. 51.

Inhabits at the Cape of Good Hope.—Is nine inches long; the bill is leaden coloured; the rump and tail are dusky brown; the legs and feet are black.

301

33. Tabuan Shrike .- 31. Lanius tabuenfis. 35.

The body is olive brown above; the throat and breast are ash coloured; the belly is. yellowish brown; the wing quills are black; the tail, legs, and feet, are brown.

L. tabuenfis. Lath. ind. orn. i. 76. n. 34.—Tabuan Shrike. Lath. fyn. i. 164. n. 9.

Inhabits Tongataboo, one of the Friendly ifles in the South Sca.—Is near nine inches long; the bill is brown; the crown is greenish brown; the fides of the head are olive brown; the external margins of the wings are black; the fecondary wing quills are blackish brown, edged with dirty white.

302

34 Pacific Shrike. - 32. Lanius pacificus. 36.

Is black; the head and neck having a green tinge, the belly, wings, and tail, being more dusky.

L. pacificus. Lath. ind. orn. i. 75. n. 28.—Pacific Shrike. Lath. fyn. i. 164. n. 10.

Inhabits the South Sea islands.—Is eleven inches long; the bill, which measures three quarters of an inch, is dufky; the feathers of the head and neck are very narrow; the tail is three inches long; the toes are completely divided to their origins, and the middle toe is remarkably long.

303

35. Northern Shike. - 33. Lanius septentrionalis. 37.

Is brown above, the chin, throat, and belly, being ash coloured; the belly and ventlet are brownish; the bill is black; the legs and feet are lead coloured.

L. feptentrionalis. Lath. ind. orn. i. 76. n. 30.—Northern Shrike. Lath. fyn. i. 165. n. 11.

Inhabits North America.—Is about eight inches long; the noftrils are finall and rounded; the base of the upper mandible is garnished with five or fix black bristles on each side; the four middle tail quills are univerfally brown; the rest are tipt with white on their inner webs; all of them are two inches long; the legs are fhort, with strong brown claws.

304

36. Black-capped Shrike. - Lanius pileatus.

The head is crested; the general colour is ash, the head, throat, and breast, being black; the wing coverts are barred with white, and the fail is tipt with white. Lath. ind. orn. i. 76. n. 31. Syn. fup. 54.

Inhabits

Inhabits Cayenne.—Is fix inches long: The female has no creft, but her crown is blackish, and her throat and breast are ash coloured.

305

37. Green Shrike. - 34. Lanius viridis. 38.

The head, wings, and upper part of the body, are dusky green; the under parts of the body are white; the tail is black.

L. viridis. Lath. ind, orn. i. 75. n. 27.—L. madagascariensis minor viridis. Briss. av. ii. 195. n. 25. t. 15. f. 2.—Tcha-chert. Buff. ois. i. 310.—Pie-griesche de Madagascar. Pl. enl. n. 32. f. 2.—Green Shrike. Lath. syn. i. 179. n. 30.

Inhabits Madagafcar.—Is near fix inches long; the wings are long; the two middle tail quills are dufky green; the reft are black, or blackifh, with dufky green exterior webs; the legs, feet, and claws, are black.

306

38. White-headed Shrike ._ 35. Lanius leucocephalus. 39.

Is greenish black above; the head, neck, and under parts of the body, being white.

L. leucocephalus. Lath. ind. orn. i. 77. n. 36.—L. madagascariensis major viridis. Brist. av. ii. 193. n. 24. t. 19. f. 3.—Tcha-chert-bé. Bust. oif. i. 314.—Pie-griesche verdatre de Madagascar. Pl. enl. n. 374.—White-headed Shrike. Lath. syn. i. 180. n. 32.

Inhabits Madagascar.—This species, which has some affinity to the Rusous Shrike, is eight inches long; the tail is dark greenish black above, and black beneath; the bill, legs, feet, and claws, are leaden coloured.

307

39. Dominican Shrike. - 36. Lanius dominicanus. 40.

Is black, with a white belly and rump.

L. leucorhynchos dominicanus. Lath. ind. orn. i. 78. n. 38. s.—Pie-griefche dominicaine. Sonner. voy. 55. t. 26.—Dominican Shrike. Lath. fyn. i. 181.

Inhabits the Phillippine islands.—This species is a little larger than a Sparrow; it slies with vast swiftness, is extremely bold, and is particularly troublesome to Crows: Dr Gmelin suspects it may be a variety of the Manilla Shrike, formerly described, and it is accordingly arranged as such by Mr Latham. The bill is conical, strong, and ash coloured, being garnished at the base with bristles; the wings extend beyond the tip of the tail when closed.

308

40. Panay Shiike .- 37. Lanius panayensis. 41.

Is brown; the head, throat, breast, and belly, being red.

L. panayenfis. Lath. ind. orn. i. 78. n. 40.—Pie-griesche rouge de Panay. Sonner. voy. 114. t. 70.—Panayan Shrike. Lath. syn. i. 182. n. 34.

Inhabits the ifland of Panay.—Is about the fame fize with the Butcher Shrike; the bill, legs, and feet, are black; the crown, back, wings, and tail, are brown; the irides are flame coloured.

310

312

314

41. White Shrike.—38. Lanius albus. 42.

Is white; the bill, tail, and principal parts of the wings, being black.

L. albus. Lath. ind. orn. i. 77. n. 37.—Pie-griefche blanche de Panay. Sonner. voy. 115. t. 72.—White Shrike. Lath. fyn. i. 189. n. 42.

Inhabits the island of Panay.—Is twice as large as the Red variety of the Butcher Shrike; the wings are each marked with a white band across the primary quills.

42. Variegated Shrike.—39. Lanius varius. 43.

Is brown ash above, the throat and breast being yellowish buff colour; the belly, rump, and ventlet, are dirty brownish white; the interscapulary region is white; the tail and wings are brown.

L. varius. Lath. ind. orn. i. 78. n. 39.—White-shouldered Shrike. Lath. fyn. i. 190. n. 43.

Inhabits Brafil.—The bill, legs, and feet, are black; the shoulders are each marked with a conspicuous white spot; the forehead and cheeks are marked with paler brown spots.

311 43. Spotted Shrike.—40. Lanius naevius. 44.

Is black above, and ash coloured beneath; the wings have each an oblong white spot on the coverts.

L. naevius. Lath. ind. orn. i. 81. n. 51. - Spotted Shrike. Lath. fyn. i. 190. n. 45.

Inhabits Cayenne.—This fpecies refembles the Pied Shrike, but is fmaller; the bill, legs, and feet, are black; fome of the feathers at the fore part of the back are tipt with white; the wing quills are edged with white, and the tail quills have white tips.

44. Dusky Shrike.—41. Lanius obscurus. 45.

Is dull black above, and white beneath, having a white line over each eye.

L. obscurus. Lath. ind. orn. i. 81. n. 52.—Dusky Shrike. Lath. syn. i. 191. n. 46.

Supposed, by Mr Latham, to inhabit America.—This species is about the size of the last; the bill is pale; the wings and tail are darker than the body; the legs and feet are brown.

313 45. Brown Shrike.—42. Lanius fuscus. 46.

Is brown above, and white beneath; the straps are yellowish.

Brown Shrike. Lath. fyn. i. 191. n. 47.

Its place unknown.—The tips of the fecondary wing quills, and the edges of the primaries, are yellowish; the bill is pale, with a black tip; the legs and feet are black.

46. Red Shrike.—43. Lanius ruber. 47.

Is red; the wing and tail quills being marked with eye-like spots, and tipt with black.

L. ruber. Lath. ind. orn. i. 78. n. 41.—Red Lanius, or Red Butcher-bird. Bancroft, guian. 154.—Red Shrike. Lath. fyn. i. 192. n. 48.

Inhabits Surinam.

315

47. American Shrike. - 44. Lanius americanus. 48.

Is black above, and ash coloured beneath; the crown is black; the throat, cheeks, and ventlet, are white.

Black-crowned Shrike. Arct. zool. ii. 238. n. 128.

Inhabits North America.—This species is less than the Great Shrike, and is much akin to the Louifiana Shrike; it is considered as the same with that species by Mr Pennant; Mr Latham makes two distinct species, yet consules the synonimes, quoting the descriptions of this species by Dr Gmelin and Mr Pennant, along with Dr Gmelin's Louisiana species to what he names the Louisiana Shrike, and referring, with Mr Pennant, the Louisiana species of the Pl. enlum. to this; I have preferred, however, the authority of Dr Gmelin, especially as Mr Latham and Mr Pennant do not agree together, and the latter naturalist seems not quite determined in his opinion.—T.

The tail is long, its middle feathers are entirely black, but the reft are white at the tips, the white increasing gradually on each quill, as it recedes from the middle, till the outermost is nearly altogether white; the primary wing quills have each a small white spot, and the ridge of each wing is marked with a white spot.

316

48. Lesser Shrike .- 45. Lanius minor. 49.

Of an ash colour, with rose coloured breast and belly.

L. italicus. Lath. ind. orn. i. 71. n. 13.—L. minor. Gerin. orn. i. 72. t. 54.—Pie-griesche d'Italie. Buff. ois. i. 298. Pl. enl. n. 32.—Lesser grey Shrike. Lath. syn. sup. 54. Arct. zool. ii. 241. A.

Inhabits Europe, particularly Italy, Spain, and Ruffia.—This fpecies is allied to the Grey Shrike, formerly described: The fore-head is black, and a black line, from the root of the bill, passes through the orbits on each side to the back of the neck; the throat is white; the head, scrag, and sides of the neck, the back, and wing coverts are ash coloured, the rump being paler; the ridges of the wings are white; the primary wing quills are black, with a white spot on each near the base; the secondaries are black, with white tips; the tail is wedge-shaped, its quills are black with white tips, and white outer edges. Mr Latham thinks this species is very nearly akin to the Red Butcher Shrike.

317

49. Nootka Shrike.-46. Lanius Nootka. 50.

Of a black colour above, and white beneath; the crown is black, and a white collar furrounds the neck.

L. Nootka. Lath. ind. orn. i. 80. n. 48.—Natka Shrike. Lath. fyn. fup. 55. Arct. zcol. ii. 239. n. 130.

Inhabits Nootka Sound, on the north-west coast of America.—Is seven inches and a quarter in length; the bill, legs, and seet are black; a white line, with a black line directly below it, extends

320

over each eye to the nape of the neck; the leffer wing coverts are black, and the larger coverts white, dashed with black down the shafts; the primary wing quills are dusky, fringed, or edged, with yellowish brown; the secondaries are black, edged and tipt with white; the tail is black, and somewhat rounded, its four outermost quill feathers being tipt with white; the rump is as coloured, its feathers being edged with grey.

318 50. Boulboul Shrike.—Lanius Boulboul.

Of a black colour, the breast and belly having a cinereous tinge; the wings are brown, each having two white bands. Lath. ind. orn. i. 80. n. 49. Syn. sup. 57.

Inhabits India.—Is about the fize of the Fieldfare; the bill, legs, and feet are yellow.

51. Black-headed Shrike. - 47. Lanius melanocephalos. 51.

The bill, head, and throat, are black; the body is olive coloured above and paler beneath; the tail is marked with a broad black band, and is yellow at the tip.

L. melanocephalus. Lath, ind. orn. i. 76. n. 29.—Black-headed Shrike. Lath. fyn. i. 165. n. 12. 't. 6.

Inhabits the Sandwich iflands.—Is about fix inches in length; the legs and feet are dusky.

52. Short-tailed Shrike.—48. Lanius brachyurus. 52.

The top of the head is rusty grey, with white eyebrows, and a black band across the orbits; the body is grey ash above, and yellowish white beneath; the tail is rounded. Pall. it. iii. 693. n. 5.

L. brachyurus. Lath. ind. orn. 76. n. 32.—Short-tailed Shrike. Lath. fyn. i. 166. n. 13.

Inhabits Hungary, and is more rarely found in Dauria.—This species is about the size of the Butcher Shrike; the rump is somewhat rusty; the throat and ventlet are almost white; the wings are blackish, the seathers of the coverts having grey tips; the tail has ten short quills of a greyish brown, and, except the middle quills, they are tipt with white.

321 53. Red-tailed Shrike.—49. Lanius phoenicurus. 53.

The tail is long and rounded, and, with the rump, is very bright red; the orbits are croffed by a black band; the body is reddish grey above, and yellowish white beneath. Pall. it. iii. 693. n. 6.

L. phoenicurus. Lath. ind. orn. i. 71. n. 14.—Rufous-tailed Shrike. Lath. fyn. i. 166. n. 14.

Inhabits rocky places on the river Onon in Siberia.—This fpecies refembles the Butcher Shrike in fize and general appearance.

322 54. Pied Shrike.—50. Lanius doliatus. 16.

Is thickly variegated with black and white, in short interrupted bars; the tail is rounded. Mus. ad. frid. ii. 12.

325

L. doliatus. Lath. ind. orn. i. 80. n. 50.—L. cayanensis striatus. Briss. av. ii. 187. n. 21. t. 29. f. 3.—Pie-griesche rayée de Cayenne. Pl. enl. n. 297. f. 2.—Black-and-white Butcher-bird. Edw. av. v. 35. t. 226.—Pied Shrike. Lath. syn. i. 190. n. 44.

Inhabits Cayenne.—Is fix inches and a half long; the bill is dufky; the legs, feet, and claws are brown; the pied appearance is produced by each feather being barred with black and white; the feathers on the top of the head are longish, of a white colour, tipt with black, and are capable of being erected into a kind of crest; the tail and wings are black, with transverse oblong white spots.

323 55. Jocose Shrike.—51. Lanius jocosus. 24.

The tail is rounded; the body is grey; the lower eyelid is purple; the ventlet is blood red. Amoen. acc. iv. 238.

L. jocofus. Lath. ind. orn. i. 73. n. 22.—Merula finensis cristata minor. Briss. av. ii. 255. t. 21. f. 2.—Petit Merle huppé des Indes. Sonner. voy. ii. 189. t. 109.—Petit Merle huppé de la Chine. Buff. ois. iii. 318. Pl. enl. 508.—Jocofe Shrike. Dixon, voy. f. p. 360. Lath. syn. i. 175. n. 26.

Inhabits China and India.—Is about the fize of a Lark, measuring seven inches and a half long; the crown is black; the temples, chin, and throat are white; the belly whitish; the tail is brown, its four outermost quills having white tips; the legs, seet, and claws are black; the bill is straighter than in other species of the genus, but is notched on each side near the point. Mr Latham adds, that it is named Koo-kai-koon by the Chinese, and Boulboul by the inhabitants of Bengal; he likewise gives as a variety of this species the Chinese Nuthatch, of his own Synopsis and of an after genus in the Systema Naturae, where, on the authority of Dr Gmelin, it is allowed to remain in this edition; the name Boulboul is already applied to a different species.

56. Rock Shrike.—52. Lanius infaustus. 25.

The back is ash coloured; the tail is red and rounded, its two middle quills being ash coloured, with a black cross bar.

Corvus infaustus. Lath. ind. orn. i. 159. n. 22. Faun. suec. n. 93. Brun. orn. 10.—Corvus russicus, f. Raben-art. S. G. Gmel. it. i. 50. t. 11.—Merula faxatilis. Gesñ. av. 732. Raj. av. 68. n. 3. Briss. av. ii. 238.—Merle de roche. Buff. oif. iii. 351. t. 23. Pl. enl. n. 562.—Codirosso maggiore. Olin. uc. t. 47.—Greater Red-start. Albin, av. iii. 51. t. 55. Will. orn. angl. 197. t. 36.—Rock Shrike. Lath. syn. i. 176. n. 27.—Rock Crow. Penn. Arct. zool. ii. 252. F.—Paisse solitaire. Belon, oif. 322.—Stein-Rotela. Gesn. av. 732.—Lappskata, Olycksugel, Gertrudssogel, Ulykssugsl. Faun. suec. 93.

This variety measures near eight inches long; the bill is blackish, about an inch long, and notched at both sides; the wings, legs, and feet are blackish; the tail, which is three inches long, has its two middle quills brown, and the rest red; the head and neck are dusky ash, with small red and brown spots; the upper part of the back is dusky brown, its hind part ash coloured; the breast and belly are orange, with small white and brown spots; the rays of the feathers are soft.

β. Lesser Rock Shrike. - 52. β. L. infauslus minor.

The back is blackish, mixed with red and bluish ash, its hind part being white; the head and neck are bluish ash. Is a good deal smaller.

Vol. I. 4 B Turdus

Turdus faxatilis. Syft. nat. ed. xii. 294. n. 4. Lath. ind. orn. i. 336. n. 33.—Merula faxatilis minor. Briff. av. ii. 240.—Petrocofyphos. Gefn. av. 767.—Blankoepfige rothe Amfel. Frifch, av. t. 32.

RAPACIOUS.

Inhabits most of Europe, and is found in Siberia.—This species lives in woods, deferts, and mountainous places, building in holes and caverns of inaccessible rocks, where it lays three or four eggs each brood: It has considerable affinity in external form to the Thrush and Crow, and accordingly Mr Latham ranks the larger variety with Crows, and the smaller with the Thrushes; it resembles the Shrike, however, in its noisy and quarrelsome manners, and in feeding on any remains of sless that comes in its way, and likewise feeds on worms and insects, with which it feeds its nestlings; its fong is tollerably pleasant.

326

57. Wreathed Shrike. - 53. Lanius faustus. 26.

Of a grey colour above, with a white line behind the eyes; the under parts of the body are rufty; the tail is rounded. Amoen. acc. iv. 241.

White-wreathed Shrike. Lath. fyn. i. 178. n. 28.

Inhabits China.—This fpecies is about the fize of a Fieldfare; the bill, legs, and feet are pale; the wings are rounded, the quill feathers being brownish, with grey margins, and marked with cross lighter brown lines; the tail is brown, and is lined with lighter brown, like the wings.

PIES.

The bill is convex, and fomewhat compressed, or flattened, at the sides.

V. PARROT-5. PSITTACUS. 45.

The bill is much hooked; the upper mandible is moveable, and in many species is covered with a cere: The nostrils are rounded, and are situated in the base of the bill: The tongue is large, blunt, rounded, and sleshy: The seet have two toes placed forwards, and two backwards.

This very numerous genus is fo remarkably diffinguished from all others, that it may be reckoned an arrangement of nature rather than of artificial fystem; this was noticed by Pliny, who gives an exceedingly good diffinctive mark from the tongue, which he juftly observes is confiderably larger than in other birds. It is a gregarious and clamorous race, extremely docile, and very imitative of founds, even learning to counterfeit the human voice, and to articulate words with great diffinetness. but the natural voice is loud, harsh, and unpleasant. Parrots live chiefly in pairs, of one male with a fingle female, but these affociate in vast multitudes; they may be reckoned to hold the same place among birds that Apes and Monkeys occupy among the Mammalia; like thefe they are very numerous, very imitative, very mischievous, and very useless; they are likewise chiefly confined to the tropical regions of Asia, Africa, and America, though a few are found in colder countries, as far north as Carolina, and even fouthward at the Straits of Magellan. The head is generally large, with a flat crown, which in feveral species is furnished with a creft; the legs are for the most part short; the feet have four toes, two of which are turned back, but one of these can be brought forwards on occasion; the toes are very flexible, and are used like hands for holding any thing and carrying it to the mouth; they may be called prehenfile feet from this property, to diffinguish them from common climbing feet, which are not fo variously useful; they climb with great facility, using the bill to affift the feet. Parrots are very long lived; they feed chiefly on nuts, fruits, and feeds, and can crack the hardest nut-shells with their bills. They breed in hollows of trees, without constructing any nest, and lay two or three white eggs each brood, which must be frequently each season, from the vast numbers that every where abound in the hot countries.

To facilitate, in some measure, the discovery of any particular species, in such a prodigious number, Dr Gmelin and Mr Latham have arranged this genus under two subdivisions, which are distinguished from each other by the form of their tails; in the first division, *Pfittaci macrouri*, the tails are long, and wedge like, the middle tail quills being longer than those on each side; in the second subdivision, *Pfittaci brachyuri*, the tails are short and the end is equal, all the feathers being of an equal

328

length, or nearly fo. In the English nomenclature, which is adopted for this translation, regard has been paid chiefly to precision, preserving as much as possible the names already in use, particularly as employed by Mr Latham and Mr Edwards, but especially avoiding long compounded terms when others equally distinguishable could be found: The Maccaws have usually very long tails, and their bodies are generally larger than the other species; the Cockatoos are surnished with cress; the Parrakeets are mostly small, but as these, the Parrots, and Lorys, have no particular distinction, these names are not here employed, especially as these differences in name, in a great many instances, have been chosen arbitrarily.

* Having long wedge-like tails.

A CONTRACTOR OF THE PARTY OF TH

1. Ara .- 1. Phttacus Macao. 1.

Of a red colour, having naked wrinkly cheeks; the wing quills are blue above, and ruddy beneath; the scapulars are variegated with blue and green. Scop. an. i. 26.

Pf. Macao. Lath. ind. orn. i. 82. n. 1.—Pf. maximus alter. Aldr. orn. i. 665. f. p. 666. Raj. av. 29. n. 2.—Ara brafilienfis. Briff. av. iv. 184. t. 19. f. 1.—Ara premier. Fermin, furin. ii. 173.—Ara rouge. Buff. oif. vi. 179. Pl. enl. n. 12.—Maccaw. Albin, av. i. t. 11. Will. orn. angl. 73.—Red-and-blue Maccaw. Edw. av. t. 158. Bancr. guian. 156. Lath. fyn. i. 199. n. 1.

Inhabits South America.—The body is as large as that of a common Hen, but with the tail meafures more than a yard long; Mr Latham fays two feet feven inches and a half: This species lives in palm woods, on the fruits of which it chiefly feeds; it breeds twice a year in hollows of trees, laying two eggs, not larger than those of pigeons, and a good deal resembling the eggs of partridges; on these the male and semale sit alternately; when caught young it may be easily tamed, but the old birds are very stubborn; the sless hat is eaten, but is dry and tasteless. The general colour of the body is a full scarlet; the wing quills, especially the outer ones, are blue; the coverts are mostly yellow; the long tail is red, its outer quills being blue; the temples are white; the upper mandible of the bill is white, and the lower mandible black.

2. Aracanga.—2. Psittacus Aracanga. 52.

Is pale scarlet, with naked wrinkly cheeks; the scapular feathers are yellow, tipt with green; the wing quills are blue above, and red beneath.

Pf. Aracanga. Lath. ind. orn. i. 83. n. 2.—Pf. erythroxanthus. Gefn. av. 721. Aldr. orn. i. 683.—Aracanga. Marcgr. braf. 206. Raj. av. 29. n. 3.—Aracanga Maccaw. Will. orn. angl. 111.—Ara jamaicenfis. Briff. av iv. 188. n. 2.—Petit Ara rouge. Buff. oif. vi. 180. Pl. enl. n. 641.—Jamaica Macaw. Alb. av. ii. t. 17. Brown, jam. 472.—Red-and-yellow Maccaw. Bancr. guian. 156. Lath. fyn. i. 201. n. 2.

Inhabits Guiana, Brasil, and Jamaica.—This species is said by Dr Gmelin to equal the former, but Mr Latham informs us that it is smaller, and suspects it may only be a younger bird of the same species. The wing quills are scarlet, mixed with violet colour, on their upper surfaces, and dusky red beneath; two of these quills in the middle of each wing are dusky red on the upper half of their upper surfaces.

3. Military Maccaw. - 3. Psittacus militaris. 2.

Is green, with blue wings; the tail and forehead are red; the cheeks are mostly naked, with feathered lines.

Pf. militaris. Lath. ind. orn. i. 83. n. 3.—Largest guiana Parrot. Bancr. guian. 158.—Great green Maccaw. Edw. av. t. 313.—Military Maccaw. Gent. mag. xlii. f. p. 505. Lath. syn. i. 203. n. 3.

Inhabits Guiana?—The bill is black; the rump and covert feathers of the wings are green tipt with blue; the cheeks are only feathered in stripes or lines, leaving the skin naked in the intervals.

330

4. Ararauna. - 4. Psittacus Ararauna. 3.

Is blue above, and yellow beneath; the cheeks are naked, with feathered stripes.

Pf. Ararauna. Lath. ind. orn. i. 83. n. 4.—Pf. maximus cyano-croceus. Aldr. orn. i. 664. Raj. av. 28. n. 1. and 181. n. 5. Sloan, jam. ii. 296.—Ararauna. Marcgr. braf. 206. Albin, av. iii. t. 10. and ii. t. 17.—Ara brafilienfis cyano-crocea. Briff. av. iv. 193. t. 20.—Ara bleu. Ferm. furin. ii. 174. Buff. oif. vi. 191. Pl. enl. n. 36.—Blue-and-yellow Maccaw, and Brafilian Ararauna. Will. orn. angl. 110. n. 1. and 111. n. 4. t. 15.—Blue-and-yellow Maccaw. Edw. av. t. 159. Lath. fyn. i. 204. n. 4.

331

β. Blue Ararauna. -4. β. Pf. Ararauna caeruleus.

The body and tail are blue above, and faffron yellow beneath; the cheeks are white and naked. Lath. ind. orn. i. 84. n. 4. \(\beta\).

Pf. maximus caeruleus varius. Brown, jam. 272.—Pf. caeruleo-luteus. Klein, av. 24. n. 2.—Ara jamaicenfis cyano-crocea. Briff. av. iv. 191. n. 3.—Blue Maccaw. Alb. av. iii. t. 10. Lath. fyn. i. 205. n. 4. A.

Inhabits Jamaica, Guiana, Brafil, and Surinam.—This species equals any of the preceding in size. The upper part of the neck, back, wings, and tail are blue; the under part of the throat, breast, and belly are yellow; the tail is yellow in the *female*, and red in the *male*; the bill and chin are black; the eyelids are planted with black warty papillae; the temples and cheeks are white and naked, being striped with feathered spots of a bluish-black colour, which are wanting in the Blue variety.

332

5. Hyacinthine Maccaw. - Psittacus hyacinthinus.

Is violet blue, the head and neck being paler; the chin and orbits are yellow and naked. Lath. ind. orn. i. 84. n. 5. Mus. parkinson.

Its place not mentioned.—This species is nearly equal in size to the former, measuring two feet four inches in length. The bill is very large, and entirely black; the head and neck are blue; the body is very full blue, verging to violet; the wing and tail quills are of the same colour, with green-ish edges; the legs and feet are blackish ash colour.

333

6. Makawuanna. - 5. Psittacus Makawuanna. 53.

Is dusky green above, the head being green mixed with blue; the chin, throat, and upper

337

338

upper part of the breast are reddish; the under part of the breast and the belly are green; the rump is reddish brown.

Pf. Makavouanna. Lath. ind. orn. i. 84. n. 6.—Peruche Ara. Buff. oif. vi. 277.—Peruche Ara de Cayenne. Barrere, fr. equ. 145. Pl. enl. n. 864.—Parrot Maccaw. Lath. fyn. i. 205. n. 5.

Inhabits Cayenne and Guiana.—This species, which measures eighteen inches long, is migratory; the cheeks are naked; the tail is nine inches long, with blue quill feathers, having brown tips on the outer webs; the wings are dufky green on their upper, and yellowish green on their under furfaces.

7. Black Maccaw. - 6. Psittacus ater. 54. 334

Is black, with a splendid green tinge; the eyes and bill are red; the legs and feet are yellow.

Pf. ater. Lath. ind. orn. i. 84. n. 7.—Ara noir. Buff. oif. vi. 202.—Ararauna, Machao. De Laet, desc. des Indes or. 490.—Black Maccaw. Lath. syn. i. 206. n. 6.

Inhabits Guiana.—This fpecies is found on the barren ridges and rocky mountains in the interior parts of the country.

8. Obscure Parrot. - 7. Psittacus obscurus. 4.

Is brown, with naked red cheeks; the crown is variegated with blackish ash; the tail is ash coloured. Hasselqu. it. 236. n. 18.

Pf. obscurus. Lath. ind. orn. i. 84. n. 8.—Obscure Parrot. Lath. syn. i. 206. n. 7.

Inhabits Africa.—This species is about the fize of a Magpie; the bill and frontlet, the legs, feet, and claws are black; the space round the eyes are white; the irides are yellow; the back of the neck, or fcrag, and upper furfaces of the wings are black; the belly is ash coloured.

9. Noble Parrot. - 8. Psittacus nobilis. 5. **3**36

Is green, with naked cheeks, and scarlet shoulders. Mus. ad. frid. ii. 13.

Pf. nobilis. Lath. ind. orn. i. 85. n. 9.— Noble Parrot. Lath. fyn. i. 207. n. 8.

Inhabits Surinam.—This species is about the fize of a Turtle dove; the face is white and naked.

10. Maracana. - 9. Psittacus severus. 6.

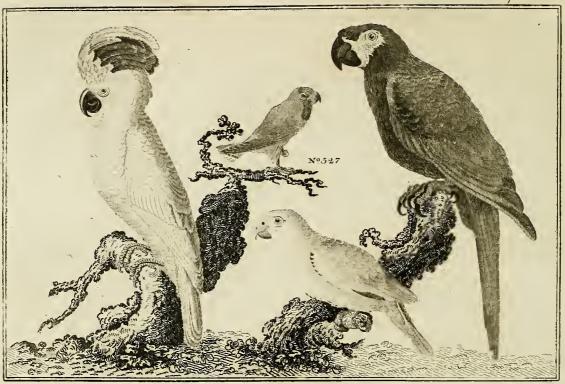
Is green, with naked cheeks; the wing and tail quills are blue above and purplish underneath. Muf. ad. frid. i. 13. Scop. an. i. 27. n. 23.

Pf. feverus, Lath. ind. orn. i. 85. n. 10.—Maracana. Marcgr. braf. 207. Will. orn. 112. n. 5.6. Raj. av. 29. n. 5. Sloan, jam. ii. 297.—Ara brafiliensis viridis. Briss. av. iv. 198. n. 6.—Ara vert. Buff. off. vi. 194. t: 8.-Ara vert de Brefil. Pl. enl. n. 383.-Brafilian green Maccaw. Edw. av. t. 229. Lath. fyn. i., 208. n. 9. fup. 58.

B. Dufky Maracana. - 9. B. Pf. Severus erythrochlorus.

Is dusky green, with a brown forehead, and greenish blue crown.





Nº 439 Nº 498 Nº 337



Nº 563

 $N^{\frac{565}{558}}$

Ara brafiliensis erythrochlora. Briff. av. iv. 198. n. 7.

339

340

341

Inhabits Brasil, Guiana, and Jamaica.—Is about feventeen inches long; the bill and claws are black; the cheeks are streaked with black; the irides are golden yellow; the plumage is green; the fore-head is purplish chesnut; the crown of the head is blue; the upper surface of the tail is green, growing blue towards the tip; the legs and feet are brown, with black claws. In the Dusky variety the plumage is of a dusky or darker green colour; the fore-head is brown, and the crown of the head is greenish blue; perhaps the difference may be owing to age or fex.

11. Gingee Parrot.—10. Psittacus Eupatria. 7.

Is green, with naked cheeks, scarlet shoulders, and purple red bill.

Pf. Eupatria. Lath. ind. orn. i. 85. n. 11.—Pfittaca ginginiana. Brifl. av. iv. 343. n. 64. t. 29. f. 1.—Perruche de Gingi. Pl. enl. n. 239.—Grande Perruche à ailes rougeatres. Buff. oif. vi. 156.—Gingi Parrot. Lath. fyn. i. 209. n. 10.

Inhabits Gingee in India.—Measures twenty-one inches long: The orbits are naked and ruddy; the body is deep olive green above, and pale green mixed with yellow beneath; the chin and throat are somewhat ash coloured; the wings and tail are green; the upper coverts are red; the legs and feet are reddish, with black claws; the two middle feathers of the tail are greatly longer than the rest; the bill is of a scarlet colour, verging to purple.

12. Japonese Parrot.—11. Psittacus japonicus. 8.

Is green above, and red beneath; the lateral tail quills are red, and the wing quills blue.

Pf. japonicus. Lath. ind. orn. i. 86. n. 12.—Pf. erythrochlorus macrourus. Aldr. orn. i. 678-f. p. 681. Raj. av. 34. n. 3.—Pfittaca japonenfis. Briff. av. iv. 362. n. 71.—Perruche vert-et-rouge. Buff. oif. vi. 159.—Red-and-yellow, or Pale-green Parrot. Will. orn. angl. 116.—Japonefe Parrot. Lath. fyn. i. 209. n. 11.

Inhabits the fouthern parts of Japan.—The tail is longer than the body, its two middle quills being green with white shafts, and the rest red with black shafts; the bill and irides are red; the cheeks, before and behind each eye, are marked with blue spots; the interscapulary region is blue; the chin is rusty red; the under parts of the body are streaked longitudinally with black lines; the legs, feet, and claws are black.

13. Amboina Parrot.—12. Psittacus amboinensis. 9.

Is scarlet, the back being blue; the wings have each a green spot.

Pf. amboinensis. Lath. ind. orn. i. 86. n. 13.—Psittaca amboinensis coccinea. Briss. av. 378. t. 28. f. 2.—Lori-perruche tricolor. Buff. oif. vi. 138.—Perruche rouge d'Amboina. Pl. enl. n. 240.—Amboina red Parrot. Lath. syn. i. 210. n. 12.

Inhabits Amboina.—Is fifteen inches and a half long; the bill, legs, feet, and claws are red, the first having a black tip; the under coverts of the tail are violet in the middle; the two middle tail quills measure

PIES.

measure nine inches and a half long, and are of a brownish violet colour; the two outer tail quills on each fide are fcarcely fix inches long, and are red on their inner edges.

14. Blue-headed Parrot. - 13. Phttacus cyanocephalus. 10. 342

Is green, the head and chin being blue.

Pf. cyanocephalus. Lath. ind. orn. i. 86. n. 14.—Pfittaca cyanocephala. Briff. av. iv. 359. t. 19. f. 2.—Perruche à tete bleue. Buff. oif. vi. 145. Pl. enl. n. 192.—Blue-headed Parrot. Lath. fyn. i. 211. n. 13.

Inhabits India.—Is not quite twelve inches long; the upper mandible is yellow, with a pale ash coloured tip, the lower mandible is wholly ash coloured; the space round the eyes is naked and yellowish; the under parts of the body are yellowish green; the chin is bluish violet; the sides of the neck are yellow; the under furfaces of the wings are ash coloured; the under surface of the tail is yellowish ash; the legs and feet are bluish, with grey claws.

15. Red-breasted Parrot. - 14. Psittacus haematotus. 50.

Is green, the breast being red, the face blue, and the crown marked with a yellow semilunar fpot.

Pf. haematotus. Lin. mantiff. 1771, p. 574.—Pfittaca amboinenfis varia. Briff. av. iv. 364. n. 72 .- Perruche à face bleue. Buff. oif. vi. 150 .- Perruche d'Amboine. Pl. enl. n. 61 .- Redbreafted Parrakeet. Edw. glean. t. 232.—Red-breafted Parrot. Lath. fyn. i. 212. n. 14.

Inhabits Amboina.—This species measures sifteen inches long; the bill and cere are yellowish; the frontlet and part of the crown are blue; the hind head is greenish; the feathers of the breast are edged with blue; the legs and feet are blackish.

B. Molucca Red-breasted Parrot. - 14. B. Pf. haematotus moluccanus. 344

The breast is red, varied with yellow; the head, chin, and middle of the belly, are blue. Lath. ind. orn. i. 87. n. 17. 8.

Perruche des Moluques. Buff. oif. vi. 150. Pl. enl. n. 743.—Orange-breafted Parrot. Lath. fyn. i. 212. n. 14. A.

Inhabits the Molucca islands.—The bill is reddish white, with a yellowish cere; the whole head is blue; the belly is blue on the middle, forming a large spot.

y. Southern Red-breafted Parrot .- 14. y. Pf. haematotus novae-hollandiae. 345

The breast is red, varied with yellow; the head, chin, and whole of the belly, are blue. Lath. ind. orn. i. 87. n. 17. y.

Blue-bellied Parrot. Brown, illustr. 14. t. 7. Lath. fyn. i. 213. n. 14. B. Phillips voy. to Bot. bay, f. p. 152.

Inhabits New-holland.—The bill is red, with a yellowish cere; the head, neck, and whole of the belly are blue.

347

S. Davies Red-breafted Parrot. - Pf. haematotus daviesianus.

The breast is red, varied with yellow; the head, chin, and belly, are blue; the scapulars are spotted with red and yellow. Lath. ind. orn. i. 87. n. 17. S. Mus. Daviesianum.

Blue-bellied Parrot. Lath. fyn. fup. 59. n. 14. c.

Inhabits New-holland.—This variety refembles the one immediately preceding, except that the feathers of the nape of the neck have reddiff edges, and that the feathers are fpotted with red and yellow.

16. Black-crowned Parrot. - 15. Psittacus atricapillus. 55.

Is blue above, with a black crown; the chin, throat, and breast, are red; the belly and ventlet are green; the neck is surrounded by a red and green collar.

Pf. attricapillus. Lath. ind. orn. i. 88. n. 18.—Pf. orientalis exquisitus, Loeri. Seba, mus. i. 63. t. 38. f. 4.—Pf. capite nigro. Klein, av. 25. n. 16.—Ara moluccensis varia. Briss. av. iv. 197. n. 5.—Grand Perruche à bandeau noir. Buss. ois. vi. 158.

Inhabits the Molucca islands.—Is fourteen inches long; the wings and the upper coverts of the tail are blue; the lower tail coverts are green, varied with red; the tail quills are green above, and red beneath, with black edges; the collar is fituated at the upper part of the neck.

348

17. Tabuan Parrot .- 16. Psittacus tabuensis. 56.

Is green above; the head, neck, breast, and belly, being reddish purple; the crown is feparated from the hind head by a semilunar blue bar; the primary wing quills, and most of the tail quills, are blue.

Pf. tabuenfis. Lath. ind. orn. i. 38. n. 19.—Tabuan Parrot. Cook's laft voy. i. 335. Lath. fyn. i. 214. n. 16. t. 7.

Inhabits Tongataboo, in the friendly islands.—Is nineteen inches long; the bill is black, its lower mandible being furrounded with green feathers; the back and the wing coverts are green; the spurious wings are blue; the secondary wing quills are green, with blue edges; the two middle tail quills, which measure eight inches long, are blue, edged and tipt with green; the rest are blue, with black shafts; the legs and feet are dusky.

349

β. Scarlet Tabuan Parrot.—Pf. tabuensis coccineus.

Is green; the head, neck, breast, and belly, being scarlet; the neck is separated from the back by a semilunar blue bar; the wings are green; the rump is blue, and the tail is deep blue. Lath. ind. orn. i. 88. n. 19. s.

Tabuan Parrot. Phillips, Bot. bay, f. p. 153.

Inhabits New-fouth-wales.—Is of the same size with the preceding; the bill is brown, its upper mandible being tinged with red; the colour of the head, neck, and under parts of the body is very bright scarlet; the wing coverts are crossed by a light yellowish green bar; the legs and feet are ash coloured.

354

350 18. Papuan Parrot.—17. Phitacus papuensis. 57.

The head, neck, and breast, are red; the hind head is marked with a blue spot and two black semilunar bars; the wings and part of the back are green; the rest of the back, the belly, and tip of the tail, are red.

Pf. papuenfis. Lath. ind. orn. i. 88. n. 20.—Petit Lori papon. Sonner, voy. 175. t. 111—Papuan Lory. Lath. fyn. i. 215. n. 17.

Inhabits Papua, in New-guinea.—Is fixteen inches long; the bill, legs, and feet are red; the wings are short; the hind part of the back is marked in the middle with a longitudinal streak, which is red at the sides and blue in the middle; the wings are each marked, near the origin, with an oblong yellow spot; the plumage of the thighs is yellow; the first two-thirds of the tail is green, its extreme third being yellow.

β. Purple-breasted Papuan Parrot .- 17. β. Pf. papuensis porphyrostethos.

The breast is purplish; the belly is crossed by a black bar edged with green. Lath. ind. orn. i. 88. n. 20. \(\beta \). Syn. i. 215. n. 17. A.

Inhabits with the former.—The black band on the belly is edged on its fore or upper part with green.

352 y. Black-backed Papuan Parrot.—17. y. Ps. papuensis melanonotos.

Is scarlet; the hinder part of the back is bluish black; the back is marked with a yellow spot between the wings. Lath. ind. orn. i. 89. n. 20. y. Syn. i. 215. n. 17. B.

Inhabits with the former.—The crown of the head is bluish black; the fore part of the back is blue, varied with green; the sides and the thighs are yellow.

353 S. Green-bellied Papuan Parrot. - 17. S. Pf. papuensis chlorogaster.

The middle part of the belly is green. Lath. ind. orn. i. 89. n. 20. 8. Syn. i. 215. n. 17. c.

Inhabits with the former.—The breaft is marked with an interrupted crescent of a yellow colour.

19. Borneo Parrot.—18. Psittacus borneus. 11.

Is red; the wing and tail quills being tipt with green; the wings have each a remarkable blue spot; the orbits are brown.

Pf. borneus. Lath. ind. orn. i. 89. n. 21.—Pfittaca coccinea bonarum fortunarum infulae. Briff. av. iv. 373. n. 77.—Lori-perruche rouge. Buff. oif. vi. 137. n. 1.—Long-tailed fcarlet Lory. Edw. av. t. 173. Lath. fyn. i. 216. n. 18.

Inhabits India.—Is nine inches and a half long; the bill is orange; the space round the eyes is brown and naked; the wing quills are varied with green and blue dots; the two outer tail quills have a greenish tinge; the under tail coverts are red, with blue edges: The crown, scrag, and breast have a violet tinge; the legs and feet are brown.

357

358

359

355 20. Indian Parrot.—19. Psittacus indicus. 58.

Is fearlet, variegated with brown and violet; the upper part of the head and neck, the breast, and a band behind the eyes, are violet; the feathers of the greater wing coverts are tipt with light brown; the lesser coverts, and the tail quills, are brown, with a violet tinge.

Pf. coccineus. Lath. ind. orn. i. 89. n. 22.—Pfittaca indica coccinea. Briff. av. iv. 376. t. 25. f. 2.—Lori-perruche violet-et-rouge. Buff. oif. vi. 138. n. 2.—Perruche des Indes orientales. Pl. enl. n. 143.—Indian Lory. Lath. fyn. i. 217. n. 19.

Inhabits Amboina.—Is nearly eleven inches long; the bill is reddiff, with a black tip; the legs and feet are brown; the under parts of the body are varied with brown and violet: In the specimen described by Buffon the primary wing quills are yellow; this circumstance therefore should either constitute a separate variety, or is to be considered as an omission by Dr Gmelin.

21. Beautiful Parrot .- 20. Psittacus elegans, 59.

Is brown above, and red beneath, with a red head and neck; having a greenish brown tail tipt with whitish.

Pf. elegans. Lath. ind. orn. i. 89. n. 23.—Beautiful Lory. Lath. fyn. i. 217. n. 20.

Inhabits the Molucca islands.—Is fifteen inches long; the feathers on the upper parts of the body are brown, edged with red and green; those of the shoulders, and the wing and tail quills have blue edges; the outer tail quills are tipt with white; the bill is yellowish brown.

β. Green beautiful Parrot, -20. β. Pf. elegans viridis.

The upper part of the body, the wings, and the tail, are green; the head, neck, and breast, are scarlet. Lath. ind. orn. 90. n. 23. \$. Syn. i. 218. n. 20. A.

Inhabits with the former.—This variety measures only twelve inches in length; the bill is of a leaden colour, with a yellow tip.

22. Gueby Parrot.—21. Psittacus guebiensis. 60.

Of a bright red, or scarlet colour; the wing quills are black, with a transverse redband; the tail is brownish red.

Pf. guebienfis. Lath. ind. orn. i. 90. n. 24.—Petit Lori de Gueby. Sonner, voy. 174. t. 109.—Lori rouge-et-violet. Buff. oif. vi. 135.—Lori de Gueby. Pl. enl. n. 684.—Gueby Lory. Lath. fyn. i. 219. n. 21.

Inhabits the island of Gueby.—Is nine inches and a half long; the bill and irides are flame coloured; a purple shade begins at the back of the neck and spreads downwards to the breast: Mr Latham adds that the interscapulary region, the breast and belly, are purple, the last being of a darker shade.

23. Violet Parrot.—22. Psittacus janthinus. 61.

The head and upper parts of the body are red; the under parts are violet; the shoulders are blue; the tail and wings are varied with green and red.

4 C 2

Pf. guebienfis janthinus. Lath. ind. orn. i. 90. n. 24. 3.—Perroquet violet. Ferm. furin. ii. 175.—Violet Lory. Lath. fyn. i. 220. n. 21. A.

Inhabits South America, on the banks of the river Amazons.—The bill is black, and the irides are golden yellow: Mr Latham, at the fame time that he ranks this as a variety only of the last, marks his suspicion that it may possibly be a distinct species; the great diversity of the two places in which they are found strongly confirms this idea.

360 24. Variegated Parrot.—23. Psittacus variegatus. 62.

The prevailing colour is scarlet; the nape of the neck, beginning of the back, the break and belly, are bluish purple; the wings are red above, and yellow beneath; the tail is green.

Pf. variegatus. Lath. ind. orn. i. 90. n. 25.—Variegated Lory. Lath. fyn. i. 220. n. 22.

Inhabits India.—Is from ten to eleven inches long; the bill is dufky; the posterior part of the belly verges towards greenish black; the tail quills are reddish on the inner webs near the base, and blue on the exterior webs near the tips.

361 25. Pennantian Parrot. - Psittacus Pennantii.

Is scarlet; the fore part of the back is black, waved with scarlet; the sides and throat are blue; the wing quills are each marked with a white spot. Lath. ind. orn. i. 90. n. 26. Syn. sup. 61.

Inhabits New-fouth-wales.—Is fifteen inches long; the leffer wing coverts are bluish green; the outer tail quills are tipt with white. In the *female* the crown of the head is of a blood red colour; the back and belly are green; the thighs and ventlet are red.

362 B. Phillips Pennantian Parrot.—Pf. Pennantii Phillippi.

The middle of each wing is marked with a pale band. Lath. ind. orn. i. 91. n. 26. s. Phillip, Bot. bay, f. p. 154.

Inhabits with the former, and is about the fame fize.—This variety refembles the former very much, being of a fearlet colour on the head, neck, and under parts of the body; the back is black, its feathers being edged with crimfon; the chin, wings, and tail are blue; the wing coverts are pale blue, and a pale blue band firetches obliquely from thence through the wing; the under coverts of the wings are black; the wing and tail quills are black, the outer webs being blue; the three outer tail quills on each fide have the lower half of the exterior web of a pale hoary blue; the lower parts of the thighs are blue; the legs and feet are dusky, with black claws.

26. Splendid Parrot.—Psittacus gloriosus.

Is bright blood red, the back feathers being edged with black; the chin, wings, and tail, are blue.

Pf. gloriofus, or Splendid Parrot. Nat. mif. No. xviii. t. 53.

363

Inhabits New-holland.—The body is about the fize of a Pigeon, or rather larger, and with the tail measures fixteen inches long: The under parts of the body are paler than the upper, and want the femilunar black spots, formed by the black edges of the feathers on the back; the shoulders of the wings are black; the wing coverts are blue, the secondary coverts being tinged with green; the primary wing quills are black, and the secondaries blue; the rump is red, without spots; the two middle tail quills are green, and the rest are blue; the bill is pale; the legs, feet, and claws are ash coloured: The colours of the semale are much less brilliant, and her back is olive green.

27. New-guinea Parrot.—24. Psittacus novae-guineae. 63.

364

365

366

367

Is black, with a splendid blue tinge; the orbits are brown and naked; the under surface of the tail is red.

Pf. novae-guineae. Lath. ind. i. 91. n. 27.—Lori noir de la nouvelle-guinée. Sonner. voy. 175. t. 111.—Black Lory. Forrest. voy. 133. Lath. syn. i. 221. n. 23.

Inhabits New-guinea.—The bill, legs, and feet are blackifh; the irides are divided into two circles, of which the outer is blue, and the inner brownish red.

28. Javan Parrot.—25. Psittacus javanicus. 64.

Is fearlet, with filvery naked orbits, and a crest on the head; the two middle tail quills are scarlet, the side ones are rose colour mixed with green and tipt with blue.

Pf. Bontii. Lath. ind. orn. i. 92. n. 29.—Pf. parvus Bontii. Raj. av. 34. n. 5.—Pfittaca javenfis criftata coccinea. Briff. av. iv. 381. n. 80.—Perruche huppée. Buff. oif. vi. 160.—Bontius fmall Parrakeet. Will. orn. angl. 120. n. 7.—Crefted red Parrakeet. Lath. fyn. i. 223. n. 25.

Inhabits Java.—This fpecies is about the fize of a Lark; The bill is grey, with a whitish cere; the eyes are black; the chin is grey; the shoulders and wings are mixed red and green.

29. Jandaya. - 26. Psittacus Jandaya. 65.

The head, neck, and under parts of the body, are yellow, the rest being green.

Pf. Jandaya. Lath. ind. orn. i. 92. n. 30.—Pfittacula brafilienfis lutea. Briff. av. iv. 399. n. 91.—Jandaya. Will. orn. 116. s. 4. n. 5. Raj. av. 34. n. 5. Buff. oif. vi. 262.—Yellow-headed Parrot. Lath. fyn. i. 224. n. 26.

Inhabits Brafil.—Is about the fize of a Blackbird: The bill, legs, feet, and claws are black; the orbits are white and naked; the irides are orange yellow; the hinder part of the belly is green.

30. Angola Parrot.—27. Psittacus solstitialis. 12.

Is yellow, with red orbits; the wing coverts are green; the exterior webs of the outer tail quills are blue.

Pf. folftitialis. Lath. ind. orn. i. 92. n. 31.—Pf. aurantius. Miller, illustr. t. 5. A.—Pf. croceus. Klein, av. 25. n. 15.—Pf. luteus macrourus. Frisch, av. t. 53.—Pfittaca angloensis lutea. Briss. av. iv. 371. n. 76.—Perruche jaune. Buff. ois. vi. 147.—Angola Perroquet. Albin. av. iii. t. 13.—Angola yellow Parrot. Lath. syn. i. 224. n. 27.

Inhabits

Inhabits Angola.—Is near a foot in length, the body being about the fize of a Turtle-dove: The bill is greenish, with a pale ash coloured cere; the irides are yellow; the back is spotted with greenish yellow; the outer edges of the wing coverts are blue; the fix middle tail quills are yellowish green on both webs, the outer ones being blue on the exterior webs; the legs, feet, and claws are ruddy.

31. Guarouba. - 28. Psittacus Guarouba. 66.

Is yellow; the larger wing coverts being green.

570

368

369

370

371

Pf. luteus. Lath. ind. orn. i. 92. n. 32.—Pfittaca brafilienfis lutea. Briff. av. iv. 369. n. 74.—Quarouba, Perruche jaune. Buff. oif. vi. 272.—Perruche jaune de Cayenne. Pl. enl. n. 525.—Quijubatui. Raj. av. 35. Will. orn. 117.—Brafilian yellow Parrot. Lath. fyn. i. 225. n. 28.

Inhabits Brafil and the country of the Amazons.—This species, which is eleven inches long, is of a solitary nature, and less numerous than most others of the genus; it is however readily made tame, but is not easily or perfectly taught to speak: The bill is grey; the eyes are black. Mr Latham adds that in young specimens of this species the back and wings have a few scattered green spots, and that the tail quills have green edges.

β. Mexican Guarouba. - 28. β. Pf. Guarouba mexicanus.

Is yellow, with a reddish head, orange coloured neck, and green wings. Lath. ind. orn. i. 93. n. 32. s.

Pf. mexicanus, Avis cocho. Seb. muf. i. t. 64. f. 4.—Pfittaca mexicana lutea. Briff. av. iv. 374. n. 75.—Mexican yellow Parrot. Lath. fyn. i. 226. n. 28. A.

Inhabits Mexico and New Spain.—The bill is red; the wing coverts are variegated with green, red, and orange; the wing quills are green.

32. Carolina Parrot .- 29. Psittacus carolinensis. 13.

Is green; having the head, neck, and knees, orange yellow. Scop. an. i. 29. n. 25.

Pf. carolinenfis. Lath. ind. orn. i. 93. n. 33.—Pfittaca carolinenfis. Briff. av. iv. 350. n. 67.—Perroquet. Ferm. furin. ii. 176. n. 7.—Parrokeeto. Lawfon, carol. 142.—Perruche à tete jaune. Buff. oif. vi. 274.—Perruche de la Caroline. Pl. enl. n. 499.—Caroline Parrot. Lath. fyn. i. 227. n. 29. fup. 59. Catefb. carol. i. t. 11. Arct. zool. ii. 242. n. 132.

Inhabits Guiana, and migrates into Carolina and Virginia during the feafon of ripe Mulberries.—This species is thirteen inches long, which is chiefly made up by the length of the tail, for it only weighs three ounces and a half; it is gregarious, and very destructive to orchards; it builds in hollow trees in low swampy places, is easily tamed, but does not readily learn to speak: The bill is yellowish white; the fore-head, ridge of the wings, and bracelets, or a ring of feathers round the knees, are orange; the head and neck are yellow; the back, body, and the wing and tail coverts are green; the primary wing quills are dusky, mixed with blue and green; the legs and feet are white.

33. Alexandrine Parrot. -- 30. Psittacus Alexandri. 14.

Is green; with a red breaft, red collar, and black chin-

Pf. Alexandri. Amoen. av. iv. 26. Muf. ad. frid. ii. 14. Scop. an. i. 29. n. 26. Lath. ind. orn. i. 97. n. 46.—Pf. cubicularis. Haffelqu. voy. 235.—Pf. torquatus. Aldr. orn. i. 678. Raj. av. 33. n. 1.—Pfittaca torquata. Briff. av. iv. 323. n. 55.—Perocello. Olin. ucc. t. 24.—Grande Perruche à collier rouge-vif. Buff. oif. vi. 141.—Perruche à collier des Maldives. Pl. enl. n. 642.—Ring Parrakeet. Will. orn. angl. 115. Edw. av. t. 292. f. 1.—Alexandrine Parrakeet. Lath. fyn. i. 234. n. 37.

Inhabits Asia, and the Indian islands.—This species derives its trivial name from having been first noticed during the Indian expedition of Alexander of Macedon. The body is about the fize of a Pigeon, and, with the tail, measures sixteen inches long; the bill is red; the nape of the neck is red, which surrounds the neck like a collar; at the base of each wing is a purple mark; the tail is yellowish on its under surface; the legs and seet are dusky.

372 β. Rose-ringed Alexandrine Parrot.—30. β. Ps. Alexandri roseocollari.

The collar is rose coloured. Lath. ind. orn. i. 98. n. 46. β.

Perruche à collier rofacé. Buff. oif. vi. 152. Pl. enl. n. 551.—Rofe-ringed Parrakeet. Lath. fyn. i. 255. n. 37. A.

Inhabits Africa.—Is fifteen inches and a half long; the hind head is bluish green; the bill is blood red, with black tips to both mandibles; the irides are yellow; the general colour, as in the former variety, is green, with a black chin; the collar confists of a very narrow line of pale rose colour surrounding the neck; the legs and feet are ash coloured.

γ. Purple-ringed Alexandrine Parrot.—30. γ. Pf. Alexandri purpureocollari.

The collar is purple. Lath. ind. orn. i. 98. n. 46. γ.

Pfittaca indica torquata. Briff. av. iv. 326. n. 56.—East-indian Bracelet Parrakeet. Albin, av. ii. t. 18.—Purple-ringed Parrakeet. Lath. fyn. i. 236. n. 37. B.

Inhabits India.—Is feventeen inches long; the upper mandible of the bill is orange, and the lower mandible black; the crown is bluish green; the throat and breast are pale rose colour; the orbits are brown.

374 S. Double-ringed Alexandrine Parrot. - 30. S. Pf. Alexandri duplocollari.

The collar is double. Lath. ind. orn. i. 98. n. 46. 8.

Psittaca borbonica torquata. Briss. av. iv. 328. n. 57. t. 27. f. 1.—Perruche à double collier. Buss. ois. vi. 143.—Perruche à collier de Bourbon. Pl. enl. n. 215.—Double-ringed Parrakeet. Lath. syn. i. 236. n. 37. c.

Inhabits the ifle of Bourbon.—Is thirteen inches and a half long; the throat and breaft are streaked with yellow; the general colour is green; the collar round the neck is rose coloured, and double, being wider at the fore part; the sides of the neck, immediately below the under mandible of the bill, are black.

Parrot.

375

377

s. Blue headed Alexandrine Parrot .- 30. s. Pf. Alexandri cyanocephalus.

Is green; with blue head, chin, and tail, and having naked red orbits.

Pf. indicus. Lath. ind. orn. i. 86. n. 15.—Pfittaca cyanocephala. Briff. av. app. 129.—Perruche à tete azur. Buff. oif. vi. 148.—Blue-headed Parrakeet. Edw. av. t. 292. Lath. fyn. i. 237. n. 37. D.

Inhabits India.—The bill is red; the orbits are naked and of a fleshy red or carnation colour, the irides being orange yellow; the wings are each marked with a yellow fpot; the under furface of the tail is yellow; the legs and feet are ash coloured.—This bird should rather have been ranked as a variety of the Blue-headed Parrot, No. 343. with which it agrees, especially as the particular characteristic of the Alexandrine species, the collar, is wanting.—T.

ζ. Javan Alexandrine Parrot.—30. ζ. Pf. Alexandri javanicus. 376

Is green; the head being mixed blue and yellow, with black temples; the throat and breast are reddish.

Pf. Osbeckii. Lath. ind. orn. i. 87. n. 16.—Pf. javanicus. Osbeck, it. i. 156.—Javan Parrakeet. Lath. fyn. i. 237. n. 37. E.

Inhabits Java.—The bill is red, with a black cere, its under mandible being yellowish; the orbits are brown and naked; the colours of the head are pale blue and pale yellow mixed together; the chin is pale red; the breaft is pale rofe colour; the wing quills are afh coloured on their under furfaces, and have blue edges; five of the wing covert feathers are yellow, forming a large fpot; the tail is blue above, and yellowifh underneath; the legs and feet are greenifh grey.—This ought doubtlefs either to have constituted a separate species, or at least to have been ranked as a variety of the Blueheaded Parrot. Both in this instance and the former variety the authority of Dr Gmelin has been adhered to, perhaps too rigidly, but no great confusion can thereby be occasioned to the student of Natural history, as the error is pointed out; to the experienced Naturalist no such precaution is neceffary.-T.

34. Illinois Parrot .- 31. Psittacus pertinax. 15.

Is green; with tawny cheeks, the wings and tail being fomewhat hoary. Mus. ad. frid. i. 14.

Pf. pertinax. Lath. ind. orn. i. 94. n. 34. Borowsk. nat. ii. 94. n. 15.—Pfittaca illiniaca. Briff. av. iv. 353. n. 68.—Tui aputejuba. Marcgr. braf. 206. Raj. av. 34. n. 2.—Tui fecundus. Raj. av. 181. n. 6. Will. orn. 116.—Aputejuba. Buff. oif. vi. 269. t. 13.—Perruche illinoife. Pl. enl. 528.—Klein langfchwaenziger gruner Papagay. Frifch, av. t. 54.—Yellow-faced Parrakeet. Edw. av. 49. t. 234.—Illionois Parrot. Arct. zool. ii. 243. n. 133. Lath. fyn. i. 228. n. 30.

Inhabits America.—Is about thirteen inches long; this fpecies migrates annually in fummer to a more northern clime than is usual with this genus; it is found in Brasil and other parts of the tropical regions of America, and even passes the winter in the southern countries on the Missipi, but in fummer is found almost as high as lake Michigan; it is gregarious, and feeds on chefnuts, pease, and other feeds and fruits; it forms its nest in the large hills of ants or termites; is very active, but is a bad scholar in learning to speak; the sless is eaten in America. The bill is ash coloured; the irides, the fore-head, cheeks, and fometimes the hind head are rich orange yellow; the crown, upper

part of the body, tail, and wing coverts are bright green; the primary wing quills are green, with blue outer edges; the ventlet is yellow.—Mr Pennant fuspects that this species may only differ from the Carolina Parrot in sex.

35. Leverian Parrot .- 32. Psittacus Leverianus. 67.

378

379

380

381

Is pale green; with yellow head and neck; the rump is fearlet; the wing and tail quills are blue at the tips.

Pf. erythropygius. Lath. ind. orn. i. 94. n. 35.—Crimfon-vented Parrot. Lath. fyn. i. 229. n. 31. Inhabits fouthern Afia.—This fpecies is of a middle fize.

36. Emeraldine Parrot.—33. Psittacus smaragdinus. 68.

Is fplendid green; the hinder part of the belly, the rump, and the tail, being rufty chefnut.

Pf. fmaragdinus. Lath. ind. orn. i. 94. n. 36.—Perruche émeraude. Buff. oif. vi. 262.—Perruche des terres magellaniques. Pl. enl. n. 85.—Emerald Parrot. Lath. fyn. i. 230. n. 32. fup. 60.

Inhabits the coasts of the Straits of Magellan.—Is thirteen inches long; the bill, legs, and feet are dusky; the tail is green at the tip. Dr Gmelin expresses a doubt, by a point of interrogation, whether the place of this species be, as is faid, in a country so inhospitable as that surrounding the Straits of Magellan; but the general fact of Parrots being found there is indisputably proved by the concurrent testimony of the most respectable navigators, from Spilbergen and Dampier to the companions of Admiral Byron's voyage of discovery. Arct. zool. ii. p. 244.

37. Red-fronted Parrot. - 34. Psittacus canicularis. 16.

Is green, with a red forehead and tawny orbits; the hind head and outer wing quills are blue.

Pf. canicularis. Lath. ind. orn. i. 94. n. 37.—Pfittaca brafilienfis. Briff. av. iv. 339. n. 62.—Perruche à front rouge. Buff. oif. vi. 268. Pl. enl. n. 767.—Red-and-blue-headed Parrakeet. Edw. av. iv. t. 176. Lath. fyn. i. 242. n. 40.

Inhabits the warmer parts of America.—Is about the fize of a large Thrush: The under parts of the body are greenish yellow; the bill is blackish; the eyes are black; the legs and feet are reddish; the exterior webs of the wing quill feathers are greenish; the tail is very long.

38. Brown-throated Parrot.—35. Psittacus aeruginosus. 17.

Is green, with ash coloured orbits; the crown, and the primary wing quills, being blue.

Pf. aeruginofus. Lath. ind. orn. i. 95. n. 38.—Pfittaca martinicana. Briff. orn. iv. 356. n. 69.—Perruche à gorge brune. Buff. oif. vi. 257.—Brown-throated Parrakeet. Bancr. guian. 162. Edw. av. iv. t. 177. Lath. fyn. i. 243. n. 41.

Inhabits the tropical parts of America, and the West Indian islands.—Is somewhat more than ten inches long, and the tail is rather shorter than the body: The frontlet, cheeks, chin, and throat are Vol. I.

24 D greyish

greyish brown mixed with yellow; the bill, cere, legs, feet, and claws are ash coloured; the irides are yellowish brown; the under parts of the body are yellowish green; the under furface of the tail is yellowish.

382 39. Red-billed Parrot. - 36. Psittacus rusirostris. 18.

574

385

Is green, with red bill, orbits, legs, and feet; the tail quills being tipt with blue. Muf. ad. frid. ii. 13.

Pf. rufirostris. Lath. ind. orn. i. 95. n. 39. Ger. orn. ii. 19. t. 125.—Pfittaca. Briff. orn. iv. 319 n. 54.—Perruche. Pl. enl. n. 550.—Sinvialo. Buff. oif. vi. 265.—Tui. Raj. av. 34. n. 1. Will. orn. 116.—Small long-tailed green Parrakeet. Brown, jam. 472.—Long-tailed green Parrakeet. Edw. av. t. 175. Lath. fyn. i. 230. n. 33.

Inhabits South America.—Is twelve inches and a half long, gregarious, eafily tamed, docile, and an excellent fpeaker: The red of the legs, feet, claws, and orbits is crimfon or flesh coloured; the upper mandible of the bill is blood red, the under mandible being black; the irides are orange yellow.

383 B. Guiana Red-billed Parrot:—36. B. Ps. rusirostris guianensis.

The bill, legs, feet, and claws, are whitish red; the orbits are ash coloured. Lath. ind. orn. i. 96. n. 39. 3.

Pfittaca aquarum Lupiarum. Briff. av. iv. 330. n. 58.—Ajuru-catinga. Raj. fyn. 33. n. 6. 7. Will. orn. 76. Id. angl. 115.—Guiana green Parrot. Bancr. guian. 161. Lath. fyn. i. 231. n. 33. A.

Inhabits South America.—This variety is about the fize of a Thrush; the irides have two coloured circles, of which the outer is reddish and the inner ash coloured.

384 40. Orange-billed Parrot.—37. Psittacus ornatus. 19.

Is yellowish green, with red hind head, chin, and breast; the crown and the ears being blue; the orbits are ash coloured.

Pf. ornatus. Lath. ind. orn. i. 91. n. 28. Borowsk. nat. ii. 94. n. 16.—Psittaca indica varia. Brifs. orn. iv. 366. n. 73.—Avis paradisiaca orientalis. Seb. mus. 95. t. 60. f. 2. 3.—Perruche Lori. Bufs. ois. vì. 145.—Perruche variée des Indes orientales. Pl. enl. n. 552.—Lory Parrakeet. Edw. av. t. 174. Lath. syn. i. 221. n. 24.

Inhabits India.—Is eight inches long: The bill is pale orange, with a brownish cere; the irides are orange; the crown is bluish black, and the cheeks are each marked with two spots of the same colour, one behind and the other above the eyes; the under surface of the tail is reddish; the legs and feet are ash coloured.

41. Jaguilma.—38. Psittacus Jaguilma. 69.

Is green, with tawny orbits; the wing quills being tipt with brown. Molin. chil. 228.

Pf. Jaguilma. Lath. ind. orn. i. 96. n. 40.

Inhabits Chili.—This species is very imperfectly described; it passes the summer months in the great chain of the Andes, lives in very numerous slocks, making a great noise, and is very prolific;

it feeds on the buds of trees, and plants, making great havock in the country, and is reckoned tender high flavoured food.

PIES.

386

42. Guiana Parrot .- 39. Psittacus guianensis. 70.

Is green, with red fpots on the cheeks, and red bracelets; the leffer wing coverts being fearlet, and the larger coverts yellow.

Pf. guianenfis. Lath. ind. orn. i. 96. n. 41.—Pfittaca gujanenfis. Briff. av. iv. 331. n. 59. t. 28. f. 1.—Perruche pavouane. Buff. oif. vi. 255.—Perruche de la Guianne. Pl. enl. n. 167. 407.—Pavouane Parrot. Lath. fyn. i. 232. n. 34.

Inhabits Guiana and the West India Islands.—This species measures twelve inches long, and is of a ferocious disposition: The bill and cere are whitish, the former having an ash coloured tip; the wing quills are yellow on their under surfaces, and are edged with blackish near the tips: In the younger animal, which is represented in the 167th plate of the Planches enluminées, while the other gives the full grown bird, the red spots on the cheeks are either altogether wanting or scarcely perceptible: The legs and feet are grey, with blackish claws.

387

43. Luzonian Parrot.-40. Psittacus marginatus. 71.

Is green; the wing coverts are black, the feathers of the leffer coverts having yellowish brown edges, and the greater coverts being edged with blue.

Pf. marginatus. Lath. ind. orn. i. 96. n. 42.—Perruche de Luçon. Sonner. voy. 80. t. 44.—Varied-winged Parrot. Lath. fyn. i. 234. n. 36.

Inhabits the island of Luzonia.—The frontlet is splendid green; the bill is large and of a carnation red colour; the irides are white; the crown of the head is blue; the body is grass green above, and yellowish green beneath; the legs and feet are blackish.

388

44. Sonnerats Parrot .- 41. Psittacus Sonneratii. 72.

Is green, with a blue collar; and having a red spot at the origin of each wing.

Pf. Sonneratii. Lath. ind. orn. i. 98. n. 47.—Perruche à collier de Luçon. Sonner. voy. 80. t. 43.—Blue-collared Parrot. Lath. fyn. i. 234. n. 36.

Inhabits Luzonia.—The bill and irides are red; the head, neck, and belly are greyish green; the wings and back are grass green; the two middle tail quills are grass green, and the rest of a greyish green; the legs and feet are blackish grey.

389

45. Pondicherry Parrot .- 42. Psittacus pondicerianus. 73.

Is green; the face and fore part of the head being variegated with blue and white, and having black streaks, like whiskers, on each side, extending from the bill to the chin.

Pf. pondicerianus. Lath. ind. orn. i. 99. n. 48.—Perruche à moustaches. Buff. oif. v. 149.—Perruche de Pondichery. Pl. enl. n. 517.—Mustacho Parrakeet, Lath. syn. i. 238. n. 38.

39 I

393

Inhabits India, near Pondichery.—Is eleven inches long; the breaft is purplish blue; the wing coverts are varied or spotted with yellow.

390 \(\beta\). Bearded Pondicherry Parrot. \(-42\). \(\beta\). Ps. pondicerianus barbatus.

Is green; the fore part of the face being chesnut, with a brown line on each side from the nostrils to the eyes; the chin is black, extending backwards on each side like a beard. Lath. ind. orn. i. 99. n. 48. s.

Bearded Parrakeet. Lath. fyn. i. 238. n. 38. A.

Inhabits with the former.—This variety is of the same size with the former, from which, perhaps, it may only differ in sex: The nape of the neck is purplish red; the wing quills have blue edges; the bill is red; the crown of the head is green; the legs and seet are dusky.

46. Red headed Parrot .- 43. Psittacus erythrocephalus. 74.

Is green, the head being red mixed with blue, having a black chin, and a collar of black and pale green round the neck.

Pf. ginginianus. Lath. ind. orn. i. 99. n. 50.—Pfittaca ginginiana erythrocephalos. Briff. av. iv. 346. n. 65. t. 29. f. 2.—Perruche à tete rouge. Buff. oif. vi. 144.—Perruche à tete rouge de Gingi. Pl. enl. n. 264.—Bloffom-headed Parrakeet. Lath. fyn. i. 239. n. 39.

Inhabits India, near Gingee.—Is eleven inches long; the under parts of the body are green verging towards yellow; the wing coverts are marked with a red fpot; the legs, feet, and claws are ash coloured; the inner edges of the tail quills are yellow; the bill is reddish.

392 β. Bengal Red-headed Parrot.—43. β. Pf. erythrocephalus bengalensis.

Is yellowish green, the crown and cheeks being rose coloured; the hind head, and the two middle tail quills, on their upper surfaces, are blue, the rest being edged with blue. Lath. ind. orn. i. 100. n. 50. s.

Pfittaca bengalenfis. Briff. av. iv. 348. n. 66.—Petite Perruche à long brins. Buff. oif. vi. 154.—Perruche de Mahé. Pl. enl. n. 888.—Perruche à tete rouge de Luçon. Sonner. voy. 79. t. 42.—Bengal Parrakeet. Albin, av. iii. 7. t. 14.—Rose-headed ring Parrakeet. Edw. glean. t. 233. Lath. syn. i. 239. n. 39. A.

Inhabits Bengal.—Is ten inches long; the upper mandible is yellow, and the under mandible black, with a brownish cere; the under fide of the body is yellowish green; the wing coverts are marked with a dusky red spot; the interior edges of the tail quills, and their under surfaces are yellow; the chin and under sides of the cheeks are marked with a black line; the legs, seet, and claws, are ash coloured.

2. Borneo Red-headed Parrot -43. 2. Pf. erythrocephalus borneus.

Is green; the head, chin, throat, breast, and fore part of the belly, being of a reddish peach-blossom colour. Lath. ind. orn. i. 100. n. 50. y.

Bornean Parrakeet. Lath. fyn. i. 240. n. 39. B.

395

396

397

Inhabits Borneo.—Is twelve inches long; the bill is reddish, its under mandible being black; the cere and orbits are ash coloured; the fore-head is ash coloured, with a green spot, and having a black line across from one eye to the other; the wing coverts are marked with a red spot; the inner edges of the wing quills are blue; the legs, feet, and claws are ash coloured. Mr Latham gives a different description of this variety, saying that the head is purplish blue, its fore part being green, with a black cross line; each cheek is marked at its lower part with an oblique black bar; the under part of the throat and breast are reddish chesnut.

S. Malacca Red-headed Parrot.—43. S. Pf. erythrocephalus malacceusis.

Is yellowish green; the hind head and orbits being rose coloured. Lath. ind. orn. i. 100. n. 50. 3.

Grande Perruche à long brins. Buff. oif. vi. 155.—Perruche de Malac. Pl. enl. n. 887.—Malacca Parrakeet. Lath. fyn. i. 241. n. 39. c. fup. 60.

Inhabits Malacca.—Is fixteen inches long; the bill is reddifh; the wing coverts are bluifh green in the middle; in this variety the black line, which in all the others firetches from the fauces towards the crown of the head, is wanting.

47. Spot-necked Parrot.—Psittacus bimaculatus.

Is green; having two oblong black fpots on the neck, and a large fulphur yellow fpot on each wing. Mus. carls. ii. t. 30. Lath. ind. orn. i. 99. n. 49.

Its place uncertain.—Is eleven inches long; the bill is pale blood red; the fore-head, chin, throat, cheeks, and fides of the neck are orange yellow; the chin and throat are marked on each fide with a large oval black fpot, reaching from the base of the bill to the beginning of the breast, and with a number of small black spots; the yellow spot on each wing is occasioned by the edges of the quill feathers being yellow.

48. Brown-fronted Parrot. -44. Psittacus plumbeus. 75.

Is green; the bill, orbits, legs, and feet, being lead coloured; the front, cheeks, and chin, are brown; the edges and tips of the tail quills are blue. Lath. ind. orn. i. 95. n. 38. 8.

Brown-fronted Parrakeet. Lath. fyn. i. 243. n. 41. A.

Inhabits the tropical regions of America.—Is eleven inches and a half long; the *irides are chefnut or yellowish brown; the crown is bluish; the edges of the wing quill feathers are blue. Dr Gmelin suspects this may be a variety of the Brown-throated Parrot, N°. 381. and Mr Latham ranges it as such.

49. Buff-fronted Parrot.—P/uttacus bubalinus.

Is green above, and yellowish green beneath; having a yellowish brown or buff coloured forehead. Lath. ind. orn. i. 95. n. 37. \(\beta\). Ger. orn. ii. 29. t. 127.?

Perruche à front jaune. Pl. enl. n. 838.—Buff-fronted Parrakeet. Lath. fyn. fup. 61. n. 135.

Inhabits

Inhabits Cayenne.—Is ten inches long; the bill is dufky; the fore-head and orbits are buff coloured, or pale yellowish brown; the crown of the head and the wing quill feathers are blue; the legs and feet are dufky red. Mr Latham ranks this as a variety of the Red-fronted Parrot, N°. 380. but as it feems to agree more nearly with the preceding species, which is placed here after the example of Dr Gmelin, it has been thought better to insert it in this place.—T.

398 50. Lace-winged Parrot.—45. Psittacus olivaceus. 76.

Is olive-brown, with a bluish spot on the hind head; the wings are variegated with blue, green, and orange.

Pf. olivaceus. Lath. ind. orn. i. 97. n. 43.—Pf. minor lucionenfis, Pfittacula lucionenfis. Ger. orn. ii. 21. t. 130.—Perruche aux ailes chamarées. Buff. oif. vi. 151.—Perroquet de Luçon. Pl. enl. n. 287.—Lace-winged Parrakeet. Lath. fyn. i. 244. n. 42.

Inhabits the island of Luzonia.—Is rather more than eleven inches long; the bill is red; the middle of the wings is blue; the tail is about one-third of the whole length of the body, and the wings reach to about its middle, when folded; the legs and feet are dusky. This species has considerable affinity to the Luzonian Parrot, No. 387.

5 r. Dubious Parrot.—Psittacus dubius.

399

400

40I

Is green, with a reddish neck, and naked yellow orbits. Lath. ind. orn. i. 97. n. 44. Syn. fup. 62.

Its place uncertain.—Is nine inches long; the bill, legs, and feet, are pale horn coloured; the whole wing quills, and the four middle tail quills, have blue tips; the outer tail quills are tipt with yellow.

52. Orange-bellied Parrot.—Psittacus chrysogaster.

Is green, with a greenish bill, and having an orange coloured belly. Lath. ind. orn. i. 97-n. 45. Syn. sup. 62.

Its place uncertain.—Is feven inches and a half long; the greater coverts of the wings have blue outer webs, and their inner webs are each marked with a white fpot; the four outer tail quills on each fide have yellow tips; the legs and feet are greenish.

53. Greenish Parrot.-46. Psittacus virescens. 77.

Is greenish; the outer wing quills being white, edged and tipt with yellow.

Pf. virefcens. Lath. ind. orn. ic 100. n. 51.—Pfittaca cayennenfis. Briff. av. iv. 334. n. 60. t. 27. f. 2.—Perruche à ailes variées. Buff. oif. vi. 259.—Petite Perruche verte de Cayenne. Pl. enl. n. 359.—Yellow-winged Parrakeet. Lath. fyn. i. 244. n. 43.

Inhabits Cayenne.—This species measures eight inches in length; it is very numerous, not at all shy, extremely docile, and feeds much on the flowers of the *Erythrina coralliodendron*: The bill and cere are whitish; the wing coverts farthest from the body are greenish blue; those nearest the body are bluish green; the inner coverts are sulphur yellow; the lesser coverts are white at the base, and

404

405

on their inner webs, their outer webs and tips being yellow; most of the wing quills have yellow outer webs and tips, with yellowish white inner webs; the first five nearest the body are green, with black inner webs and white edges; the next feven are white, edged and tipt with yellow; the inner edges of the tail quills are yellowish; the legs and feet are grey.

54. Waved Parrot .- 47. Psittacus versicolor. 78. 402

Is green, with brown head and throat, the latter being waved with tawny; the wings are blue, with a flame yellow bar; the belly is pale bluish purple, with brown waved lines.

Pf. verficolor. Lath. ind. orn. i. 101. n. 52.—Perruche à gorge variée. Buff. oif. vi. 250.—Perruche à gorge tachetée de Cayenne. Pl. enl. n. 144.—Perruche. Fermin, furin. ii. 177. n. 2.— Waved-breafted Parrakeet. Lath. fyn. i. 245. n. 44.

Inhabits Cayenne and Surinam.—Is about the fame fize with the preceding species: The bill, legs, feet, and claws are black; the irides are flame coloured; the frontlet is dufky blue, or flate colour, above, and fky blue next the bill; the tail is lilac, or pale purplish blue, above, and reddish brown on its under furface; the under parts of the body are brown; the throat is aurora, or flame yellow, colour: This species is extremely rare.

55. Scaly Parrot.—Psittacus squammosus.

Is green; the feathers on the head, neck, and breaft, having orange coloured edges. Lath. ind. orn. i. 101. n. 53.

Scaly-breafted Parrakeet. Lath. fyn. i. 246. n. 45.

Inhabits Cayenne.—Is eight inches and a half long: The edges of the feathers, as above described, being on the lower part of both webs at the tips, give the appearance of scales; the shoulders are fcarlet; the rump and middle of the belly are blood red; the bill, legs, and feet are dufky; the orbits are naked and pale.

56. Carnation Parrot. -48. Psittacus incarnatus. 79.

Is green, with carnation red bill, legs, feet, and claws; the cere and orbits are whitish; the chin and wing coverts are red.

Pf. incarnatus. Lath. ind. orn. i. 101. n. 54.—Pfittaca indica. Briff. av. iv. 341. n. 63.—Perruche à gorge rouge. Buff. oif. vi. 157.—Red-winged Parrakeet. Edw. glean. t. 236. Lath. fyn. i. 246. n. 46.

Inhabits India.—Is eight inches and a half long, of which the tail measures four inches and a half, the body being about the fize of a Lark; the bill is pale horn colour; the irides are chefnut brown.

57. Grey-breasted Parrot .- 49. Psittacus murinus. 80.

Is olive; the face, chin, and breaft, being filver grey; the wing quills are green.

Pf. murinus. Lath: ind. orn. i. 101. n. 55.—Perruche. Pernetty, voy. to falk. ifles. i. 312.— Perruche 580 BIRDS. PIES. Parrot.

Perruche fouris. Buff. oif. vi. 148.—Perruche à poitrine grife. Pl. enl. n. 768.—Grey-breafted Parrakeet. Lath. fyn. i. 247. n. 47.

Inhabits Monteviedo.—This species is of mild and docile manners; it measures ten inches in length, of which the tail is a half: The bill, legs, and feet are grey; Mr Latham says the bill is carnation red.

58. Horned Parrot.—50. Psittacus cornutus. 81.

Is green, with a fearlet head, having two long extended feathers like horns.

406

407

408

409

Pf. bifetis. Lath. ind. orn. i. 102. n. 56.—Horned Parrot. Cook, voy. ii. t. p. 110. Lath. fyn. i. 248. n. 48. t. 8.

Inhabits New-Caledonia.—Is eleven inches long: The bill, legs, and feet are dark blackish blue; the temples are orange yellow, the irides golden yellow, and a pale yellow, or straw coloured, collar surrounds the neck; the two elongated feathers from the crown of the head are each an inch and a half long, of a dusky colour with red tips; the wing coverts are dusky on their inner webs and at the tips; the wing and tail quills have their exterior webs edged with blue; the rump is pale yellow; the under surface of the tail is black.

59. Caledonian Parrot.—51. Psittacus caledonicus. 82.

Is olive, with a greenish yellow crown; the tail quills have whitish tips, and the outer edges of the four outermost are pale blue.

Pf. caledonicus. Lath. ind. orn. i. 102. n. 57.—Caledonian Parrot. Lath. fyn. i. 248. n. 49.

Inhabits New-Caledonia.—Is eleven or twelve inches long: The bill is bluish, with a pale tip; the frontlet is red above, and blue next the bill; the colour of the upper parts of the body has a greenish, and of the under parts a yellowish hue; the legs and feet are dusky or blackish blue. Both Dr Gmelin and Mr Latham suspect this of being the semale of the preceding.

60. Zealandian Parrot.—52. Psittacus seelandicus. 83.

Is brownish-green; with a dark purple front, greenish tawny crown, and scarlet rump.

Pf. novae-feelandiae. Syft. nat. ed. Gm. i. 328. n. 83.—Pf. zealandicus. Lath. ind. orn. i. 102-n. 58.—Red-rumped Parrot. Lath. fyn. i. 249. n. 50.

Inhabits New-zealand.—Is fifteen inches long; from the base of the bill a red streak extends through each orbit; the tail quills are bluish, the two middle ones having green edges; the bill is dark blue, with a black tip; a small number of the feathers on the crown are pale yellow, and on the middle of the back there are a few of a pale rusty brown colour; the temples are pale green; the belly is greenish ash; the primary wing quills are brown, with blue edges; the secondary wing quills, and the feathers of the bastard wing are dusky, with green edges, pale rusty tips, and chesnut shafts; the legs and feet are black.

61. Hollandian Parrot.—53. Psittacus hollandicus. 84.

Is olive-brown; with a yellow crest on the head, and an oblique white bar on the wings.

Pf. novae-hollandiac. Syst. nat. ed. Gm. i. 328. n. 84. Lath. ind. orn. i. 102. n. 59.—Crested Parrakeet. Lath. syn. i. 250. n. 51.

Inhabits New-holland.—Is twelve inches long: The creft is composed of fix stender feathers, two of which are almost three inches long, the rest being a good deal shorter; behind each eye is a red spot; the bill is pale; the legs and feet are dusky: The body and head of the female are more on the tawny shade, the rump and tail having transverse grey streaks.

62. Wallesian Parrot.—Psittacus wallicus.

Is green; the four middle taill quills are barred with green and black, and the rest with black and yellow.

Pf. formosus. Lath. ind. orn. i. 103. n. 60.

410

411

412

413

Inhabits New-fouth-wales.—This rare fpecies is supposed by Mr Latham to be of the same size with the last: The wing coverts are green, with black and yellow bars; the wing quills are black on the inner and green on the outer webs, having each two yellow spots on the middle, except on the three outermost, which have a single yellow spot on their inner webs, and all those spots are so arranged as to form an interrupted yellow bar across the wing; the two middle tail quills measure nine, and the outer ones three, inches in length; the four middle tail quills are green with above twenty narrow transverse black bars, and the rest are yellow with a good many black bars, the bars grow less perceptible towards the tips. This beautiful species is described by Mr Latham from a mutilated specimen, which had only the wings and tail.

63. Society Parrot. - 54. Psittacus ulietinus. 85.

Is olive-green; with blackish brown crown, dusky red rump, and dusky tail and wings. Ps. ulietinus. Lath. ind. orn. i. 103. n. 61.—Society Parrot. Lath. syn. i. 250. n. 52.

Inhabits Ulietea, one of the Society islands.—Is ten inches and a half long; the bill is blackish blue, with a black tip; the wing and tail quills have black edges; the feathers on the under parts of the body have a yellowish tinge; the legs and feet are black.

64. Many-coloured Parrot, -55. Psittacus multicolor. 86.

Is green; the head, chin, and belly, being blue; the fore part of the breast red, its hinder part and the under surface of the tail yellow, and the neck has a white collar.

Pf. femicollaris. Lath. ind. orn. i. 103. n. 62.—White-collared Parrot. Lath. fyn. i. 251. n. 53. Penn. gen. of birds, 4to ed. 59. t. 2.

Inhabits the islands of the Indian ocean.—The fize is not mentioned; the bill is red; the crown of the head is marked with a white crescent; the thighs are variegated with blue and yellow.

65. Golden Parrot.—56. Pf. aureus. 87.

Pf.

Is green; with golden-yellow crown, the cere and orbits being carnation red. Vol. I.

Pf. brafilienfis. Lath. ind. orn. i. 103. n. 63. Ger. orn. ii. 19. t. 126.—Pfittaca brafilienfis. Briff. orn. iv. 337. n. 61.—Perruche couronnée d'or. Buff. oif. vi. 271.—Golden-crowned Parrakeet. Edw. glean. t. 235. Lath. fyn. i. 251. n. 54.

Inhabits Brafil.—The bill is black; the irides are orange; the chin is mixed yellowifh-green and red; the wing coverts are croffed by an oblique blue bar; the outer webs of the wing quills are blue; the legs and feet are reddifh, with blackifh claws.

414 66. Lineated Parrot. -57. Pfittacus lineatus. 48.

Is green; the under furfaces of the wing quills are brown, and their inner webs are edged with pale brown.

Pf. lineatus. Lath. ind. orn. i. 104. n. 64.—Lineated Parrot. Lath. fyn. i. 252. n. 55.

Its place uncertain.—Is about the fize of a Turtle dove: The under parts of the body are yellowifh green; the under furfaces of the wings are streaked with very narrow pale brown lines; the tail is longer than the body.

67. Pacific Parrot.—58. Psittacus pacificus. 88.

Is green, with a red front; having a red spot on each side behind the eyes, and on each side of the rump.

Ps. pacificus. Lath. ind. orn. i. 104. n. 65.—Pacific Parrot. Lath. fyn. i. 252. n. 56.

Inhabits Otaheite and the other iflands of the Pacific Ocean.—Is twelve inches long; the bill is filvery with a black tip; the legs and feet are brown, with black claws.

β. Zealand Pacific Parrot .- 58. β. Pf. pacificus seelandicus.

The forehead is fearlet, and the wing quills are blue. Lath. ind. orn. i. 104. n. 65. s. Syn. i. 253. n. 56. s.

- Inhabits New-zealand.—In this variety the rump has no red fpots.

γ. Red-rumped Pacific Parrot. — 58. γ. Ps. pacificus erythropygius.

The frontlet, temples, and rump, are red. Lath. ind. orn. i. 104. n. 65. v. Syn. i. 253. n. 56..
B.

Inhabits with the former:

582

415

4.18 S. Caledonian Pacific Parrot. - 58. S. Pf. pacificus caledonicus.

The forehead is red, and the crown yellow. Lath ind. orn. i. 104. n. 65. 8. Syn. i. 254: n. 56. c.

Inhabits New-Calcdonia;

Parrot.

421

422

423

419 s. Carlsonian Pacific Parrot.—Pf. pacificus Carlsonianus.

The hind head, a spot on each side below the eyes, and the sides of the belly, are scarlet.

Lath. ind. orn. i. 104. n. 65. s.

Pfittacus Novae-zealandiae. Muf. carlf. ii. t. 28.

Inhabits New-zealand.—The fides of the belly are fpotted with fcarlct; the under furfaces of the wings and tail are brown.

ζ. Phillipine Pacific Parrot. - Pf. pacificus Phillipinus.

The crown is blue; the hind head is spotted with yellowish green; the shoulders are edged with yellow.

Pf. australis. Lath. ind. orn. i. 104. n. 66.—Pacific Paroquet, or Parrakeet. Phillips, Bot. bay, t. p. 155.

Inhabits New-fouth-wales.—The bill is brown, tinged at the tip with red; the cap on the crown of the head is azure blue, interspersed at the back part with a few small yellowish green feathers; the shoulders, or upper and fore parts of the wings, are yellowish.

68. Palm Parrot. - 59. Psittacus palmarum. 89.

Is green, with red bill, legs, and feet; the wing quills being edged and tipt with black.

Pf. palmarum. Lath. ind. orn. i. 105. n. 68.—Palm Parrot. Lath. fyn. i. 253. n. 57.

Inhabits the island of Tanna in the Pacific Ocean.—This species, which frequents the palm trees, is eight inches long, and the tail is rather shorter than the body; the green colour on the lower parts of the body is paler than on the upper, and the belly and extremity of the tail have a yellowish tinge.

69. Blue-crested Parrot.—60. Psittacus australis. 90.

Is green; the crown being blue and ornamented with a crest of longish feathers; the chin and middle of the belly are red, and the thighs are purple.

Pf. pipilans. Lath. ind. orn. i. 105. n. 69.—Blue-crefted Parrakeet. Lath. fyn. i. 254. n. 58.—Pf. porphyrocephalus, or Purple-headed Parrakeet. Nat. mifc. N°. i. t. 1.

Inhabits the Sandwich Islands.—The body is about the fize of a Lark, and, with the tail, measures fix inches and a half long; it is very beautiful, and has a chirping voice: The bill is orange coloured; the fore-head pale green; the two middle tail quills are green, with yellow tips, the rest being yellowish with green edges and tips; the legs and feet are dusky, with black claws.—This species is subject to variety; in some the breast is brown; in others the cheeks, chin, throat, breast, and belly are tinged with scarlet, and in these the thighs are green. Lath.

70. Peregrine Parrot .- P/ttacus peregrinus.

Is green; having a longitudinal brown fpot on each wing. Lath, ind. orn. i. 105. n. 67.

Peregrine Parrakeet. Lath. fyn. fup. 62.

Inhabits the islands of the Pacific Ocean. Is eight inches long; the bill, legs, and feet are red.

424 71. Otaheite Parrot. - 61. Ps. taitianus. 91.

Is blue; having longish feathers on the head; the chin and throat are white; the bill, legs, and feet, are red.

Pf. taitianus. Lath. ind. orn. i. 105. n. 70.—Arimanon. Buff. oif. vi. 175.—Petite Perruche de Taïti. Pl. enl. n. 455. f. 2.—Otaheitean blue Parrakeet. Lath. fyn. i. 255. n. 59.—Pf. porphyrio, or Violet-blue Parrakeet. Nat. mifc. N°. iii. t. 7.

Inhabits Otaheite.—This finall fpecies is very noify and unfettled, living chiefly on the fruits of the Banana or Musa trees; it measures very little more than five inches long, and the tail is rather shorter than the body: The tongue is fringed at the end, and in some individuals the whole under parts of the body are white.

425 72. Blue Parrot.—Psittacus cyaneus.

Is entirely of a splendid full blue colour. Lath. ind. orn. i. 105. n. 70. \$. Mus. carls. ii. t. 27. Inhabits Otaheite.—Mr Latham is of opinion that this is only a variety of the preceding species.

426 73. Timid Parrot.—Psittacus pusillus.

Is olive-brown, with a fearlet frontlet; the tail quills being fearlet on their inner webs near the base. Lath. ind. orn. i. 106. n. 71.

Inhabits New-fouth-wales.—Is about the fize of a Lark, and measures seven inches long: The bill is blackish, being circled at its base with scarlet feathers; the under parts of the body are paler than the upper; the tail is of the same olive brown colour with the body, all the quills, except the two middle ones, having the half next the rump of their inner webs scarlet; the legs and seet are blue.

427 74. Pygmy Parrot.—62. Psittacus pygmaeus. 92.

428

Is green, all the feathers being tipt with yellowish green; the inner webs of the wing quills are dusky.

Pf. pygmaeus. Lath. ind. orn. i. 106. n. 72.—Pigmy Parrakeet. Lath. fyn. i. 256. n. 60.

Inhabits the islands of the Pacific ocean.—Is fix inches long, the tail being rather shorter than the body: The bill is whitish, with a dusky cere; the legs and feet are leaden coloured.

75. Agile Parrot.—63. Psittacus agilis. 20.

Is green, having the coverts of the primary wing quills of a bluish tawny colour; the tail, which is scarcely elongated, is red underneath; the orbits are ash coloured.

Pf. agilis. Lath. ind. orn. i. 106. n. 73. Borowsk. nat. ii. 92. n. 10.—Pf. cayenensis. Briff. av.

430

431

432

iv. 237. n. 23.—Crik. Buff. oif. vi. 228.—Crik de Cayene. Pl. enl. n. 839.—Little green Parrot. Edw. av. iv. t. 168.—Agile Parrot. Lath. fyn. i. 297. n. 101.

Inhabits South America.—Is ten inches and a half long; the bill, legs, and feet are ash coloured; the irides are chesnut; the inner webs and tips of the wing quill feathers are black; the two middle tail quills are green; the outer ones having three quarters of the length of the inner webs red; the tail is wedge-like, but not lengthened. In the Planches enluminées the cheeks of this species are coloured yellow.

76. Red-shouldered Parrot .- Psittacus sanguinolentus.

Is green, with a crimfon frontlet; the crown and outer edge of the wings are deep blue; the shoulders and under surfaces of the wings are blood red.

Red-shouldered Parrakeet. Phillips, bot. bay. t. p. 269.

Inhabits New-fouth-wales.—Is ten inches and a half long: The general colour is green, inclining to yellow on the under parts of the body; the crown of the head, the outer edges of the wings, and fome parts in the middle of the wings, are deep blue; the frontlet is crimfon; the fore part of the neck is mixed with crimfon; the fore part of the cheeks, between the bill and the eyes, is mixed with yellow; the fhoulders and under furfaces of the wings are blood red; the primary wing quills are dufky, edged on their outer webs with yellow; two or three of the inner wing quills, and the ventlet or under furface of the rump, are pale red; the tail is long and wedge-like, its quill feathers near the rump are chefnut, growing dull blue towards the extremity; the bill, legs, and feet are brown.

** Having short tails, equal at the ends.

77. Crowned Cockatoo. - 64. Psittacus coronatus. 21.

Is green; with a red folding crest which is tipt with blue.

Pf. coronatus. Lath. ind. orn. i. 106. n. 74.—Guiana Cockatoo. Bancr. guian. 160.—Crowned Cockatoo. Lath. fyn. i. 259. n. 65.

Inhabits Guiana and Surinam.—Is eighteen inches long: The fore-head is yellow; the creft is fcarlet, its tip being bright blue; the outer tail quills have blue outer webs; the feathers of the vent-let are red, with blue tips.

78. Black Cockatoo. - 65. Psittacus aterrimus. 93.

Is black, with a large paler creft, and having naked red cheeks.

Pf. gigas. Lath. ind. orn. i. 107. n. 75.—Kakatoës noir. Buff. oif. vi. 97.—Great black Cockatoo. Edw. glean. t. 316.—Black Cockatoo. Lath. fyn. i. 260. n. 66.

Inhabits New-holland; Mr Latham fays Ceylon.—This species equals or exceeds the Ara, No. 327. in fize: The bill is dusky brown; the legs and feet are brownish black.

79. Banksian Cockatoo. - Psittacus Banksii.

Is splendid black, with a small crest, the head and wing coverts being dotted with buff; the outer tail quills are scarlet in the middle, being barred, and tipt with black. Lath. ind. orn. i. 107. n. 76.

586 BIRDS. PIES. Parrot.

Pf. magnificus, or Magnificent Cockatoo. Nat. mifc. N°. xvii. t. 50.—Bankian Cockatoo. Lath. fyn. fup. 63. t. 109. Parkinf. voy. 144. Cook, voy. ii. 18.

Inhabits New-holland.—Is almost equal in fize to the former: The general colour is black; the fore part of the crest, the cheeks, below the eyes, and the shoulders are spotted with buff, owing to the feathers being tipt with that colour; in some specimens the sides and thighs are slightly barred with narrow buff streaks from the same cause; the bill is very large, and of a deep brown colour; the two middle seathers of the tail are black; the outer tail quills are black at both ends, their intermediate space is scarlet with irregular black transverse bars, the inner edge of the scarlet, near the shafts, becomes yellow; the legs and feet are deep brown. In some specimens the scarlet on the tail forms one large transverse band in the middle, without any black bars.

β. Yellow-necked Banksian Cockatoo. - Pf. Banksii flavicollo.

The fides of the neck, the chin, and throat, are yellow. Lath. ind. orn. i. 107. n. 76. s.

Inhabits with the former, but is greatly finaller, meafuring twenty inches long, perhaps it is a younger bird: The tail is marked exactly as above described, with scarlet and black bars; the bill is lead coloured; the scathers of the crest are varied with yellow; the chin and throat are yellow, and the sides of the neck are variegated with yellow and black.

y. Brown Banksian Cockatoo. - Pf. Banksii fuscus.

Is dusky brown, inclining to olive; the tail is crossed, except the two middle quills, with a broad red bar.

Variety of the Bankian Cockatoo. Phillips, bot. bay. t. p. 267.

433

43+

435

Inhabits with the former, and measures twenty-two inches in length: The head, neck, and under parts of the body are dusky brown, inclining to olive, the belly being darkest; the feathers on the top of the head, back part of the neck, upper part of the back, and the shoulders are edged with olive; the rest of the back, the wings, and rump are glossy black; the two middle tail quills are black; the rest are black at both ends and vermilion red in the middle for about a third of their length, the outer edge of the two outmost feathers being black; the bill is short, of a pale lead colour, and its under mandible is almost buried in the feathers of the crest; the legs, feet, and claws are black. This variety may perhaps be a different sex of the one immediately preceding.

80. Yellow-crested Cockatoo. -- 66. Psittacus sulphureus. 94.

Is white, with a folding, pointed, fulphur-yellow creft, and having a fulphur-yellow fpot below the eyes.

Pf. fulphureus. Lath. ind. orn i. 109. n. 81.—Pf. albus galeriatus. Frifch. av. t. 50.—Cacatua luteo-criftata. Eriff. av. iv. 206. n. 9.—Kakatoëha orientalis. Seb. muf. i. 94. t. 59. f. 1.—Kakatoës à hupe jaune. Buff. oif. vi. 53. Pl. enl n. 14.—Crefted Parrot, or Cockatoo. Alb. av. iii. t. 12.—Lefter white Cockatoo. Edw. glean. t. 317. Lath. fyn. il. 258. n. 64. Weir's muf.

Inhabits the Molucca if ands.—Is fourteen inches and a half long: The bill and cere are blackish;

437

438

439

the irides are red; the under parts of the body, the creft, and the half nearest the body of the inner webs of the tail quills have a tinge of sulphur yellow.

81. Wallefian Cockatto. - Psittacus galeratus.

Is white, with a long, folding, pointed, fulphur-yellow crest, and having the base of the tail sulphur-yellow. Lath. ind. orn. i. 109. n. 80.

Inhabits New-fouth-wales.—Is as large in the body as a common Dunghill cock, and measures two feet three inches long, including the tail: The bill is blackish; the orbits are covered with feathers; the crest rises from the fore-head, is seven inches long, being composed of ten or twelve sulphur yellow feathers, which are sharp at the ends; behind this the crown of the head is bald; the tail, which is eight inches long, is sulphur yellow at the base; the legs and seet are blackish. This bird resembles the former in its general appearance, but is more than twice its size, and can therefore scarcely be considered as a mere variety. Lath.

82. Red-vented Cockatoo. - 67. Psittacus philippinarum. 95.

Is white, having a folding fulphur-yellow crest which is tipt with white; the orbits are yellowish red; the under tail coverts are red, dotted with white.

Pf. philippinarum. Lath. ind. orn. i. 108. n. 79.—Cakatua minor. Briff. av. iv. 212. n. 11. t. 22. f. 1.—Petit Kakatoës. Buff. oif. vi. 96.—Petit Kakatoës des Philippines. Pl. enl. n. 191.—Red-vented Cockatoo. Brown, illustr. t. 5. Lath. syn. i. 258. n. 63.

Inhabits the Philippine islands.—Is thirteen inches and a half long: The bill is white, but is for the most part ash coloured at the base, with a grey cere; the orbits are yellowish red; the feathers of the crest are an inch and a half long, the lower feathers being sometimes pale red; the two middle tail quills are white, the inner webs of the others being sulphur-yellow from the base to the middle; the legs, feet, and claws are leaden coloured.

83. Molucca Cockatoo. 68. Psittacus moluccensis. 96.

Is pale whitish rose colour; having a folding crest, which is red underneath.

Pf. rofaceus. Lath. ind. orn. i. 108. n. 78.—Cacatua rubro-criftata. Briff. av. iv. 209. n. 10.—Kakatoës à hupe rouge. Buff. oif. vi. 95. Pl. enl. n. 498.—Greater Cockatoo. Edw. av. iv. t. 160.—Great red-crefted Cockatoo. Lath. fyn. i. 257. n. 62.

Inhabits the Molucca islands.—This species measures a little more than seventeen inches long: The bill is bluish black, with a black cere; the orbits are grey; the irides are red; the general colour is white inclining to pale rosy red; the lateral tail quills have their inner webs, from the base to the middle, of a sulphur-yellow colour; the crest is six inches and a half long; the legs and feet are lead coloured, with black claws.

84. Yellow-crested Cockatoo. - 69. Psittacus cristatus. 22.

Is white, with a folding yellow crest.

44I

442

443

Pf. cristatus. Lath. ind. orn. i. 108. n. 77.—Pf. albus cristatus. Aldr. orn. l. 11. c. 4. Raj. av. 30. n. 1.—Cacatua. Briss. av. iv. 204. n. 8. t. 21.—Kakatoës à hupe blanche. Buss. ois. vi. 92.—Kakatoës des Moluques. Pl. enl. n. 263.—White crested Parrot. Alb. av. iii. t. 12. Will. orn. angl. 112. t. 15.

Inhabits the Molucca islands.—Is eighteen inches long: The bill, cere, irides, legs, feet, and claws are black; the orbits are white and naked; the wing quills and lateral tail quills are fulphur-yellow on their inner webs from the base to the middle; the feathers of the scrag of the neck are loose and flowing; the crest is five inches long, and is capable of being erected or laid down at pleasure, in which last state it covers the crown of the head, otherwise bald or naked, with a double range of feathers, the upper row lying immediately over the intervals of the lower; this crest is erected either when angry, frightened, pleased, or otherwise roused.

85. Red-winged Cockatoo. 70. Psittacus erythroleucus. 23.

Is ash coloured; the rump, wings, and tail, being scarlet.

Pf. erythroleucus. Aldr. orn. i. 675. Raj. av. 31. n. 7. Lath. ind. orn. i. 109. n. 82.—Cacatua rubro-cauda. Briff. av. iv. 214. n. 12.—Kakatoës à ailes et queue rouges. Buff. oif. vi. 96.—Red-and-white Parrot. Will. orn. angl. 114. n. 8. Lath. fyn. i. 260. n. 67.

Its place uncertain.—Is about the fize of a common Hen, and measures feventeen inches long: This species is here named Cockatoo, notwithstanding that its having a crest is omitted both by Dr Gmelin and Mr Latham, but as that particular appellation is given to it both by Mr Brisson and the Count de Busson, it can scarcely be doubted that it is furnished with the appendage which chiefly distinguishes Cockatoos from Parrots. The bill is black; the under part of the back is red; the wing quills, and those of the tail, with the rump, are scarlet; the legs and feet are blackish, with black claws.

86. Hoary Parrot.—71. Psittacus erythacus. 24.

Of a hoary ash colour, with naked white temples, and scarlet tail.

Pf. erythacus. Muf. ad frid. i. 14. Scop. an. i. 31. n. 30. Kram. el. 332. n. 2. Lath. ind. orn. i. 109. n. 83.—Pf. guineensis cinereus. Briss. av. iv. 310. n. 49.—Pf. cinereus, s. fubcaeruleus. Aldr. orn. i. 675. t. p. 676. Raj. av. 31. n. 8.—Jaco, Perroquet cendré. Buss. ois. vi. 100. Pl. enl. n. 311.—Ash-coloured Parrot. Will. orn. angl. 114. n. 7. Alb. av. i. t. 12. Lath. syn. i. 261. n. 68.—Grauer Papagay. Frisch, av. t. 51.

β. Red-winged Hoary Parrot. -71. β. Pf. erythacus erythropterus.

Has red wings. Lath. ind. orn. i. 110. n. 83. \$. Briff. av. iv. 313. n. 49. A. Red-winged afh-coloured Parrot. Lath. fyn. i. 262. n. 68. A.

This variety differs from the former in having the wings very confiderably marked with red.

y. Red-spotted Hoary Parrot.—71. y. Ps. erythacus rubro varius.

Is variegated with red on the body and wings. Briff. av. iv. 313. n. 49. B. Lath. ind. orn. i. 110. n. 83. 7.

Red-

Red-and-ash coloured Parrot. Edw. av. iv. t. 163. Lath. syn. i. 262. n. 68. E.

The whole body, and the upper furfaces of the wings, in this variety, are variegated with red and ash colour.

Inhabits the western coast of Africa.—Is twenty inches long: This species is remarkably loquacious and noisy, modulating its voice with great flexibility, and learns easily to repeat almost every thing it hears. The bill is black, with a white cere; the irides are yellowish white; the legs and feet are ash coloured, with blackish claws.

444 87. Ash-headed Parrot. - Psittacus cinereocephalus.

Is red, with an ash coloured head, naked cheeks, and brown ash primary wing quills. Syst. nat. ed. Gm. i. 332. n. 24. 3. Lath. ind. orn. i. 110. n. 83. 3.

Pf. ruber. Scop. an. i. 32. n. 31. Lath. fyn. i. 262. n. 68. c.

Inhabits with the former.—Though this bird be reckoned a variety of the Hoary Parrot both by Dr Gmelin and Mr Latham, it is here feparated, perhaps improperly, on account of the remarkable difference in the prevailing colour: The bill, cere, irides, legs, feet, and claws, agree with the description of these in the Hoary Parrot; on the breast there are two brown feathers.

88. Cinereous Parrot .- 72. Psittacus cinereus. 97.

Is entirely of a bluish ash colour.

445

446

4+7

Pf. cinereus. Lath. ind. orn. i. 110. n. 84.—Pf. brafilienfis cinereus. Briff. av. iv. 313. n. 50.—Maracana. Will. orn. ang. 112. n. 5. Raj. av. 29. n. 4.—Cinereous Parrot. Lath. fyn. i. 263. n. 69.

Inhabits Guinea.—This fpccies exceeds the Hoary Parrot in fize.

89. Southern Parrot. - 73. Psittacus meridionalis. 98.

Is brown, with a hoary head; the under parts of the neck are chefnut; the rump and ventlet being brown red.

Pf. Neftor. Lath. ind. orn. i. 110. n. 85.—Southern brown Parrot. Lath. fyn. i. 264. n. 70.

Inhabits New-zealand.—Is fixteen inches long; the bill is large, much hooked, and blackifh; the shafts of the tail quills are naked and slender at the tips; the legs and feet are blackish.

This description, which is taken from Mr Latham, because the species is adopted into the Systema Naturae from his Synopsis, differs very materially from the one given by Dr Gmelin, which is as follows: The upper parts of the body are greenish ash; the under parts are bright bay; the orbits, crown of the head, hind head, and scrag of the neck, are ash coloured, the seathers on these parts being tipt with brown; the bill is bluish black; the legs and feet are black.

90. Mascarine Parrot.—74. Psittacus mascarinus. 49.

Of an ash colour; the lower edge of the frontlet being black; the orbits are naked and ruddy, and the lateral tail quills whitish at their bases.

Vol. I. 4 F

BIRDS. PIES. Parrot.

Pf. mafcarinus. Mantiff. 1771. p. 524. Briff. av. iv. 315. n. 52. Lath. ind. orn. i. 111. n. 87.—Mafcarin. Buff. oif. vi. 120. t. 5. Pl. enl. n. 35.—Mafcarine Parrot. Lath. fyn. i. 265. n. 72.

Inhabits Mascarin in Barbary.—Is thirteen inches and a half long: The bill, cere, legs, and feet, are ruddy; the claws are grey; the crown of the head and scrag of the neck are reddish: Mr Latham says that the prevailing colour is brown, the face black, the head bluish, and the tail quills dark ash coloured.

448 91. Brown Parrot. -75. Pfittacus fuscus. 99.

Is entirely of a brown ash colour.

-590

450

Pf. fuscus. Briff. av. iv. 314. n. 51. Lath. ind. orn. i. 111. n. 88.—Brown Parrot. Lath. syn. i. 266. n. 73.

Its habitation is uncertain.—This species measures thirteen inches and a half long.

449 92. Ceram Parrot.—76. Psittacus garrulus. 25.

Is fearlet, with ash coloured orbits, and green knees and wings, the extreme half of the tail being blue.

Pf. garrulus. Muf. ad. frid. ii. 14. It. W. goth. 137. Borowsk. nat. ii. 91. n. 6. Lath. ind. orn. 1.13. n. 96.—Lorius ceramensis. Briff. av. iv. 215. n. 13.—Lori de Ceram. Buff. ois. vi. 129. var. 2.—Ganz rother Papagay. Frisch, av. t. 45.—Lory. Raj. av. 151. n. 5.—Purple Parrot. Charlet, exerc. 75. n. 16.—Scarlet Parrakeeto. Will. orn. ang. 117.—Ceram Lory. Lath. syn. i. 269. n. 76.

Inhabits the Molucca islands.—Is a little more than ten inches long: The bill is orange, with an ash coloured cere; the irides are yellow; the legs and feet are brown, with black claws; the wing coverts are variegated with yellow and green; the primary wing quills are dusky green, having their inner webs scarlet, and their tips ash coloured; the two middle tail quills are green at the base, and red for the rest of their length with green dots; the next quill- on each side is red for two-thirds of its length and then green; the rest are scarlet at the base, and violet farther on, with dusky green dots.

β. Noira Geram Parrot.—76. β. Pf. garrulus aurorae.

Is scarlet, with black and green wings, the first half of the tail being yellow, and the extreme half green. Syst. nat. ed. x. n. 22. Lath. ind. orn. i. 113. n. 96. s.

Pf. coccineus orientalis. Raj. av. 31. n. 9.—Lori-Noira varieté. Buff. oif. vi. 129. var. 1.—Pappagallo. Zinnan. uov. 92. t. 15. f. 82.—Noira Lory. Lath. fyn. i. 270. n. 76. A.

Inhabits with the former, and is of the fame fize.—The legs and feet in this variety are black; the wing coverts are green, without variegation; the tips of the wing quills are black, and in other refpects refemble those of the former already described; the tail at its base resembles the former, but its extreme half is yellow, with a yellowish green tip.

451 y. Scarlet Ceram Parrot. -76. y. Pf. garrulus moluccensis.

Is scarlet, the shoulders being spotted with yellow. Briss. av. iv. 219. n. 14. t. 23. f. 1. Lathind. orn. i. 114. n. 96. 7.

Pf. moluccenfis. Ger. orn. i. 94. t. 106. Borowsk. nat. ii. 91. n. 7.—Lori noira. Buff. ois. vi. 127.—Lori des Moluques. Pl. enl. n. 216.—Scarlet Lory. Lath. syn. i. 270. n. 76. B. Edw. av. iv. t. 172.

Inhabits with the former, and is of the fame fize.—In this variety the wing coverts are first yellow, then green, and still lower green with yellow dots; the lower surface of the tail is reddish yellow; in other respects it agrees with the first described variety.

S. Spotted Ceram Parrot. -76. S. Pf. garrulus maculatus.

452

453

454

455

The wing coverts are marked with a number of blue spots. Lath. ind. orn. i. 114. n. 96. & Syn. 271. n. 76. c.

Inhabits with the former, and is of the fame fize.—It chiefly differs from the variety first described in having the wing coverts much spotted with blue, and by wanting the green bracelets at the knees.

93. Blue capped Parrot. -77. Psittacus Domicella. 26.

Is red, with a violet blue cap, and green wings; the shoulders and knees are blue, and the orbits brown.

Pf. Domicella. Lath. ind. orn. i. 114. n. 97.—Lorius orientalis indicus. Briff. av. iv. 22. n. 15. t. 24. f. 1.—Lori à collier. Buff. oif. vi. 130.—Lori des indes orientales. Pl. enl. n. 84.—Second black-cap Lory. Edw. av. iv. t. 171.—Purple-capped Lory. Lath. fyn. i. 271. n. 77.

Inhabits New-guinea and the Molucca islands.—This species is almost eleven inches long; is very docile, and learns to speak very plainly: The bill is red, with an ash coloured cere; the irides are yellow; the breast is marked with a yellow semilunar spot; the legs and seet are blackish, with black claws.

β. Collared Blue-capped Parrot. -77. β. Pf. Domicella torquatus.

Is red, with a blue cap, and blue wings; the orbits are ash coloured; the neck is surrounded with a yellow collar. Lath. ind. orn. i. 114. n. 97. \(\beta \).

Lorius torquatus indicus. Briff. av. iv. 130. n. 18.—Lori à collier des indes. Buff. oif. vi. 131.—Lori male des indes orientales. Pl. enl. n. 119.—Laurey from Brafil. Alb. av. iii. t. 13.—Blue-capped Lory. Lath. fyn. i. 271. n. 77. A.

Inhabits with the former, and is of the fame fize.—The bill is yellowish, with an ash coloured cere; the irides are yellow; the neck is surrounded, at its lower end, with a yellow collar; the back, rump, and belly, are mixed white and rose colour; the tail is purple, its coverts being varied with red and white; the primary wing quills are blue; the secondaries and coverts are yellowish green; the legs and feet are blackish, with black claws. The editor of the Planches Enluminées considers this variety as the male, and the former as semale of the same species.

94. Violet capped Parrot .- 78. Psittacus Lory. 27.

Is purplish scarlet, with a dark violet-blue cap, and green wings; the breast, knees, and tail, are blue, and the orbits are slesh coloured.

Pf. Lory. Lath. ind. orn. i. 115. n. 98. Borowsk. nat. ii. 92. n. 9.—Lorius philippensis. Briss. av. iv. 225. n. 16. t. 23. f. 2.—Lori tricolor. Buff. oif. vi. 132.—Lori des Philippines. Pl. enl. n. 168.—First black-cap Lory. Edw. av. iv. t. 170.—Black-capped Lory. Lath. syn. i. 273. n. 78.

592

456

457

458

459

Inhabits the island of Ylo, and the other Philippines.—Is almost eleven inches long: The bill is orange, with an ash coloured cere; the irides are orange; the tail quills are partly red, and partly green, the outer quills being edged at the ends with violet blue; the legs and feet are blackish.

95. Crimson Parrot.—79. Psittacus puniceus. 100.

Is deep fearlet or crimfon above, and violet-blue beneath; the leffer and under wing coverts, the inner webs and under furfaces of the wing quills, are blackish brown.

Pf. puniceus. Lath. ind. orn. i. 115. n. 99.—Lorius amboinenfis. Briff. av. iv. 231. n. 19.—Lori cramoifi. Buff. oif. vi. 133.—Lori d'Amboina. Pl. enl. n. 518.—Blue-breafted Parrot. Brown, illustr. t. 6.—Crimfon Lory. Lath. syn. i. 273. n. 79.

96. Red Parrot.—80. Psittacus ruber. 101.

Is red, having black wing quills and orbits; the under tail coverts being blue, the wings marked with a blue spot, and the tail tipt with chesnut.

Pf. ruber. Lath. ind. orn. i. 115. n. 100.—Lori rouge. Buff. oif. vi. 134.—Lori de la Chine. Pl. enl. n. 519.—Lori de Gilolo. Sonner. voy. 177. t. 112.—Molucca Lory. Lath. fyn. i. 274. n. 80.

Inhabits the Molucca islands and New-guinea.—Is from nine to ten inches long: The bill and irides are yellow. In the individual described by Sonnerat the tail is equal and tipt with chesnut colour, as mentioned above; but in the individual delineated in the Pl. enl. n. 519. the tail is wedge-like and of an uniform colour, giving this species a considerable resemblance to the Gueby Parrot, No. 358. Lath.

B. Molucca Red Parrot.—80. B. Ps. ruber moluccensis.

Is red; the shoulders, belly, ventlet, tips of the secondary wing quills, and tips of the larger wing coverts, being blue.

Pf. moluccensis. Lath. ind. orn. i. 116. n. 101.—Molucca Lory. Lath. fyn. i. 274. n. 80. A.

Inhabits with the former, of which it is confidered as a variety only by Dr Gmelin, while Mr Latham thinks it is fufficiently diffinct from it to conftitute a feparate fpecies: It measures nine inches in length; the bill is red, with a bluish cere; the orbits are bluish; the tail is dusky red, its quills having dusky edges.

97. Grand Parrot, -81. Pfittacus grandis. 102.

Is red, the under parts being variegated with red, blue, violet, and green; the nape is violet; the wings are blue; and the tail is yellow at the tip.

Pf. grandis. Lath. ind. orn. i. 116. n. 102.—Grand Lori. Buff. oif. vi. 135.—Lori de la nouvelle Guinée. Pl. enl. n. 683.—Purpur-roolle Lori. Voefm. monogr. 1769. p. 10. t. 7.—Grand Lory. Lath. fyn. i. 275. n. 81.

462

464

Inhabits New-guinea.—Is thirteen inches long: The bill is black; the back and wing coverts are brownish red; the head and neck are scarlet, the back part of the latter from the nape to the origin of the back being blue.

460 β. Blue-bellied Grand Parrot.—81. β. Ps. grandis porphyrogaster.

Is red, the upper parts of the body being variegated with brown, green, and blue; the under parts of the body, the edge of the wings, and their under coverts, are blue. Lath. ind. orn. i. 116. n. 102. 8.

Grand Lory. Lath. syn. i. 276. n. 81. A.

Inhabits with the former, and is of the fame fize.—The thighs and tail are chefnut coloured.

98. Cochinchina Parrot. - Psittacus cochinchinensis.

Is blue; the front, nape, lower part of the neck, breast, and middle of the belly, being fearlet. Lath. ind. orn. i. 116. n. 103. Syn. sup. 65. n. 143.

Inhabits Cochinchina.—The fize of this species is not mentioned: The bill is yellow; the wing coverts, the wing quills, and the tail, are all marked with a black cross bar; the legs and feet are black.

99. Guinea Parrot.—82. Fsittacus guineensis. 103.

The head and neck are scarlet; the eyebrows and breast are yellowish; the wings are greenish yellow, with blue tips; the belly, rump, and under surface of the tail, are shoary.

Pf. guineenfis. Lath. ind. orn. i. 116. n. 104. Miller, illustr. t. 29.—Yellow-breafted Lery. Lath. fyn. i. 276. n. 82.

Inhabits Guinea.—Is ten inches long: The bill is black, with a white cere; the chin and orbits are white; the tail is tipt with scarlet; the claws are black.

463 100. Paraguan Parrot.—83. Psittacus paraguanus. 104.

Is fearlet; the head, ferag, ventlet, tail, shoulders, and wings, being black.

Pf. paraguanus. Lath. ind. orn. i. 117. n. 105.—Lorius brafilienfis. Briff. av. iv. 229. n. 17.— Paragua. Raj. av. 33. n. 4. Will. orn. ang. 115. n. 9. Buff. oif. vi. 248.—Paraguan Lory. Lath. fyn. i. 277. n. 83.

Inhabits Brasil?—The bill is ash coloured, and the irides are red.

101. Black Parrot.—84. Psittacus niger. 29.

Is bluish black, with whitish bill and orbits.

Pf. niger. Lath. ind. orn. i. 111. n. 86. Klein, av. 25. n. 23. Ger. orn. ii. 20. t. 128.—Pf. madagafcarienfis niger. Briff. av. iv. 317. n. 53.—Vafa, Perroquet noir. Buff. oif. vi. 119. t. 4.—Perroquet noir de Madagafcar. Pl. enl. n. 500.—Black Madagafcar Parrot. Edw. av. i. t. 5.—Black Parrot. Lath. fyn. i. 264. n. 71.

Inhabits

Inhabits Madagascar.—Is thirteen inches and a half long: The bill is ruddy; the irides are brown; the tail is considerably elongated, but is equal at the end; the legs and seet are sless coloured, with black claws.

102. Blue-headed Parrot.—85. Psittacus caeruleocephalus. 28.

594

465

466

468

Is blue, with a yellow crown; the belly, rump, and tail coverts, being green, and the wing and tail quills red.

Pf. caeruleocephalus. Lath. ind. orn. i. 117. n. 106.—Pf. gujanensis caeruleus. Brist. av. iv. 304. n. 46.—Pf. versicolor, s. erythrocanus. Aldr. orn. i. 675. Raj. av. 31. n. 6.—Crik rouge-et-bleu. Buff. ois. vi. 226.—Red-and-blue Parrot. Will. orn. angl. 114. n. 6. Lath. syn. i. 277. n. 84.

Inhabits Guiana.—Is nine inches long: The bill is blackifh; the orbits are naked and white; the irides are yellow; the legs and feet are grey.

103. Variegated Parrot. -- 86. Psittacus varius. 105.

Is variegated with brown and blue; the cheeks, chin, and throat, being whitish; the wing and tail quills are dusky brown, with blue outer webs.

Pf. varius. Lath. ind. orn. i. 112. n. 90. Maerter, phyf. arb. i. 2. p. 48.

Inhabits South America.—This species scarcely exceeds five inches in length: The bill, legs, and feet, are yellowish, with black claws.

467 104. Violet Parrot.—87. Psittacus violaceus. 106.

Is violet-blue, varied with green and red; the back is mixed green and brown; the primary wing quills are black, and the rest mixed yellow, green, and red; the coverts having a rose coloured spot.

Pf. violaceus. Lath. ind. orn. i. 112. n. 91.—Pf. aquarum lupiarum. Briff. av. iv. 302. n. 44.—Crik à tete violette. Buff. oif. vi. 233.—Perroquet de Guadeloupe. Du Tertre, antill. ii. 250. f. p. 246.—Ruff-necked Parrot. Lath. fyn. i. 268. n. 75.

Inhabits America.—Is about the fize of a common Hen: The bill and orbits are flesh coloured; when irritated, the feathers round the neck are erected like a ruff or collar; the rofy spot on the wing coverts is double, or is rather two contiguous spots. The description of this species by Mr Latham is somewhat different, as sollows: The upper parts of the body are green, and the under parts bluish; the head and neck are violet-blue, varied with green and black.

105. Finch Parrot.—88. Psittacus fringillaceus. 107.

Is green, with a blue head; the cheeks, chin, throat, and a fpot on the belly, being white, fmeared bloody; the belly is violet-blue.

Pf. fringillaceus. Lath. ind. orn. i. 112. n. 92. Maerter, phyf. arb. i. 2. p. 47.

Inhabits South America.—The body of this fpecies is not larger than that of a Sparrow, and, with the tail, measures fix inches in length: The bill, legs, and feet, are pale yellow, with brownish claws; the inner webs and tips of the tail quills are pale yellow.

106.

106. Molinas Parrot.—89. Psittaeus choraeus. 108.

Is green above, and ash coloured beneath, with flesh coloured orbits. Molina, hist. mat. chil. 228. Lath. ind. orn. i. 112. n. 93.

Inhabits Chili.—This species agrees in manners and food with the Jaguilma, No. 385. already defcribed.

470

107. Chinese Parrot, -90. Psittaeus sinensis. 109.

Is green; the fides under the wings, the under wing coverts, some of the larger wing coverts, and the margin of the wings, being red; the under surface of the tail is brown.

Pf. finensis. Briss. av. iv. 291. n. 39. Lath. ind. orn. i. 117. n. 107.—Perroquet vert. Buss. ois. vi. 116.—Grand Perroquet vert. Sonner. voy. 174. t. 108.—Perroquet de la Chine. Pl. enl. n. 514.—Green-and-red Chinese Parrot. Edw. glean. t. 231. Lath. syn. i. 278. n. 85.

Inhabits China, Amboina, and New-guinea.—Is of the fize of a common Hen: The bill is red above, with a yellowish tip, and black underneath, with no cere; the orbits are clothed with plumage; the irides are orange; the legs, feet, and claws, are black.

471

108. Great-billed Parrot .- 91. Psittacus macrorhynchos. 110.

Is green above, and greenish yellow underneath; the wings being varied with blue and green, and having black coverts edged with golden yellow.

Pf. macrorhynchos. Lath. ind. orn. i. 117. n. 108.—Perroquet à bec-de-fang. Buff. oif. vi. 122.—Perroquet de la nouvelle Guinée. Pl. enl. n. 713.—Great-billed Parrot. Lath. fyn. i. 278. n. 86.

Inhabits New-guinea.—Is fourteen inches long: The bill is very large, and of a blood-red colour; the back is bluish green; the fore part of the breast is greenish yellow; the tail is yellowish at the tip; the legs and feet are black.

A72

109. Grissed Parrot.—Psittacus nasutus.

Is green; the head and breast being greenish grey, and the wing coverts yellow. Lath. ind. orn. i. 118. n. 109. Syn. sup. 64. n. 141.

Grand Perruche de la Chine. Sonner. voy. ii. 212.

Inhabits China.—Is about twelve inches long: The bill is red, and almost equals the head in fize; the irides are bluish.

473

110. Grassy Parrot. 92. Psittacus gramineus. 111.

Is grafs-green above, and olive-green underneath; having the front and crown blue, and the under furface of the tail dusky yellow.

Pf. gramineus. Lath. ind. orn. i. 118. n. 110.—Grande Perruche à tête blue. Buff. oif. vi 122.—Perroquet d'Amboine. Pl. enl. n. 862.—Amboina Parrot. Lath. fyn. i. 279. n. 87.

Inhabits

477

Inhabits Amboina.—Is fixteen inches long: The bill is pale red; the face on each fide is marked with a black line from the noftrils to the eyes; the legs and feet are lead coloured.

PIES.

111. White-headed Parrot .- 93. Psittacus leucocephalus. 30.

Is green; with blue crown, cheeks, and wing quills; having a white front, white orbits, and red chin.

Pf. leucocephalus. Lath. ind. orn. i. 118. n. 111.—Pf. martinicanus. Briff. av. iv. 242. n. 26.—Amazone à tete blanche. Buff. oif. vi. 212. t. 9.—Perroquet à front blanc du Senegal. Pl. enl. n. 335.—White-headed Parrot. Edw. av. iv. t. 166.—White-fronted Parrot. Lath. fyn. i. 279. n. 88.

Inhabits Martinico.—Is about the fize of a fmall Pigeon: The plumage is green, all the feathers having brown or red edges; the crown and fides of the head are blue; the bill is red; the chin is red; the wing quills are black, their outer webs being blue; the tail quills are green, being red at the base and yellowish at the tips, the two outermost have blue outer webs, and the fixth on each fide is entirely green; the hinder part of the belly is generally rusty.

475 β. Purple-bellied White-headed Parrot.—93. β. Pf. leucocephalus purpuratus.

Is green, with a white front; the throat is reddish, its feathers being edged with white; the belly is purple; the outer webs of the wing quills are blue. Lath. ind. orn. i. 118. n. 111. s.

Pf. leucocephalus. Aldr. orn. i. 670. Raj. av. 31. n. 5. and 187. n. 7.—Pf. martinicanus rubrogutture. Briff. av. iv. 244. n. 27.—Amazone à tete blanche. Buff. oif. vi. 212. var.—Perroquet de la Martinique. Pl. enl. n. 549.—White-headed Parrot. Will. orn. angl. 113. n. 5. Lath. fyn. i. 280. n. 88. A.

Inhabits Martinico, Jamaica, and New-spain.—Resembles the former in fize and general colours, except as above noticed in the character, and that the hind head is green.

476 y. Green-chinned White-headed Parrot. -93. y. Pf. leucocephalus albifrons.

Is green, with a white front, and green chin; the crown and wing quills being blue; the orbits and baftard wings are red.

Pf. albifrons. Lath. ind. orn. i. 119. n. 113. Muf. carlf. iii. t. 52.—White-crowned Parrot. Lath. fyn. i. 281. n. 88. g.

Inhabits with the former, and is of the fame fize.—The green plumage on the neck, back, and breaft has all the feathers rounded at the ends and tipt with black; the tail is green, the bases of the quills being tinged with blood-red; the legs and feet are ash coloured.

8. Ashy White-headed Parrot .- 93. S. Pf. leucocephalus cinerescens.

Is green, with a white front and bluish ash coloured crown; the belly being spotted with red. Lath. ind. orn. i. 119. n. 111. 17.

Pf. martinicanus cyanocephalus. Briff. av. iv. 251. n. 29.—Pagagai à ventre pourpre. Buff. cif. vi. 242. Pl. enl. n. 548.—Afli-crowned Parrot. Lath. fyn. i. 281. n. 88. c.

Inhabits

Inhabits with the former, and is of the fame fize: The plumage in this variety, like the last, is tipt with black, and the chin or throat is green.

478 112. Gerins Parrot.—Psittacus Gerini.

479

Is green, with a white head; the shoulders, some of the middle wing quills, and the inner webs of the tail quills, at the base, are red. Lath. ind. orn. i. 119. n. 112. Ger. orn. i. 95. t. 109.

Inhabits Brafil.—Is much of the fame fize with the feveral varieties of the preceding fpecies, of which it might very properly be confidered as a variety: The bill, legs, and feet are pale; the head is almost entirely white; the whole body is green; the leffer wing coverts, some of the wing quills in the middle of the wing, and all the tail quills on their inner webs near the base are red.

113. Yellow-headed Parrot .- 94. Psittacus ochreocephalus. 112.

Is green, with a yellow crown; the wing coverts are red; the wing quills are variegated with green, black, violet, and red; the two outer tail quills are red on their inner webs near the base.

Pf. amazonicus. Lath. ind. orn. i. 119. n. 114.—Pf. amazonicus brafilienfis. Briff. av. iv. 272. n. 35. t. 26. f. 1.—Amazone à tete jaune. Buff. oif. vi. 208.—Yellow-headed Amazons Parrot. Lath. fyn. i. 282. n. 89.

Inhabits South America, and the West India islands.—Is near eighteen inches long; the bill is ash coloured, with a red base; the irides are yellow; the legs and feet are leaden coloured, with black claws.

480 β. Cayenne yellow-headed Parrot.—94. β. Pf. ochreocephalus cayenensis.

Has only a yellow fpot on the crown. Lath. ind. orn. i. 120. n. 114. s.

Amazone à tete jaune. Buff. oif. vi. 209..var. 1.—Perroquet vert-et-rouge de Cayenne. Pl. enl. n. 312.—Yellow-crowned Parrot. Lath. fyn. i. 282. n. 89. A.

Inhabits with the former, and is of the fame fize: The bill is reddish, but in all other circumstances it agrees with the former variety, except that in this the crown is only marked with a yellow spot, while in the former the whole crown is yellow.

481 y. Greater yellow-crowned Parrot .- 94. y. Pf. ochreocephalus major.

The upper mandible of the bill is bluish green, with yellow sides and white tip; the under mandible being lead coloured, and yellow in the middle. Lath. ind. orn. i. 120. n. 114. 7.

Pf. poikilorhynchos. Raj. av. 30. n. 3. Briff. av. iv. 270. n. 34.—Amazone à tete jaune. Buff. oif. vi. 210. var. 2.—Party-billed Parrot. Will. orn. angl. 113. Lath. fyn. i. 283. n. 89. B.

Inhabits with the two former, which it refembles in every respect, especially the first, except in being considerably larger, and in the variegation of the bill.

Vol. I. 4. G

485

PIES.

482 114. Barbadoes Parrot .- 95. Psittacus barbadensis. 113.

Is green, with ash coloured front and orbits; the crown, cheeks, chin, throat, lesser wing coverts, and thighs, being yellow; the greater coverts are blue; most of the primary wing quills have blue outer webs; the rest are red from the base to the middle, and blue from thence to the end.

Pf. barbadenfis. Briff. av. iv. 236. n. 22. Lath. ind. orn. i. 120. n. 115.—Green-and-yellow Barbadoes Parrot. Albin, av. iii. t. 2.—Ash-fronted Parrot. Lath. syn. i. 284. n. 90.

Inhabits Barbadoes.—Is about the fize of a pigeon: The bill is horn coloured; the legs and feet are ash coloured, with black claws.

483 115. Manilla Parrot .- 96. Psittacus lucionensis. 31.

Is green, with blue hind head and rump; the wings being black, and marked with blue and red.

Pf. lucionenfis. Briff. av. iv. 295. n. 41. t. 22. f. 2. Lath. ind. orn. i. 120. n. 116.—Manilla green Parrot. Lath. fyn. i. 296. n. 98.

Inhabits the Philippine islands.—Is about the fize of a pigeon, measuring twelve inches and a half long: The bill is fearlet, with a white tip and reddiff cere; the legs and feet are afh coloured, with blackish claws.

116. Ajuru Parrot .- 97. Psittacus aestivus, 32.

Is green, flightly spotted with yellow; having a blue front, blood-red shoulders, and flesh coloured orbits.

Pf. aestivus. Lath. ind. orn. i. 121. n. 117.—Pf. amazonicus. Briff. av. iv. 256. n. 31. Klein, av. 25. n. 10. Frisch, av. t. 47,-Ajuru-curau. Marcgr. bras. 205. Raj. av. 32. n. 1.-Aouroucouraou. Buff. oif. vi. 215.—Perroquet Amazone. Pl. enl. n. 547.—Middle-fized Parrot. Will. orn. angl. 115.—Common Amazons Parrot. Lath, fyn. i. 284. n. 91.

Inhabits Amazonia, Guiana, and Brasil.—Is twelve inches long, the body being about the fize of a pigeon: The back has a number of tawny yellow feathers fcattered through its green plumage; the face is yellow, with a blue fore-head and white crown; the tail quills are green, the tips being paler; the first, second, and third, on each side, are red on their inner webs near the base, the outer web of the first being blue; the shoulders are either tawny or blood-red; the primary wing quills are black, with bluish tips, the outer webs being green, and the inner webs black; the first four or five of the fecondaries have their outer webs red near the bafe; the bill is black at the tip. This defeription applies to the following varieties, except as is otherwife expressed to each, as far as a inclusively; the varieties after that are more particularly described.

β. Jamaica Ajuru Parrot .- 97. β. Pf. aestivus jamaicensis.

The head and breast are yellow; the front and chin are bluish; the edges of the wings and the ventlet are red. Lath. ind. orn. i. 121. n. 117. 3.

Pf. jamaicenfis icterocephalos. Briff. av. iv. 233. n. 20.—Pf. viridis melanorhynchos. Aldr. orn.

I. ii. c. 7. Raj. av. 30. n. 4.—Aourou-couraou. Buff. oif. vi. 216. var. 1.—Black-billed green Parrot. Will. orn. angl. 113. n. 4.—Jamaica Parrot. Brown, jam. 473. Lath. fyn. i. 285. n. 91. A.

Inhabits Jamaica.

486

y. Main Ajuru Parrot .- 97. y. Pf. aestivus guianensis.

The leffer wing coverts are red. Lath. ind. orn. i. 121. n. 117. 2.

Pf. amazonicus jamaicenfis. Briff. av. iv. 276. n. 36. Ger. orn. i. 95. t. 108. Borowsk. nat. ii. 93. n. 12. Raj. av. 30. n. 2. and 181. n. 6.—Aourou-couraou. Buff. oif. vi. 217. var. 2.—Main Parrot. Brown, jam. 472. Sloan, jam. 297. Will. orn. angl. 113. n. 2. Lath. fyn. i. 285. n. 91. B.

Inhabits Guiana and Amazonia.—In this variety, according to Mr Latham, the crown is yellow, the cheeks and chin being paler; the fore-head is blue; the under half of the five middle wing quills are red, as are the inner webs at the base of four tail quills on each side.

487

A. Brasilian Ajuru Parrot .- 97. S. Pf. aestivus brasiliensis.

The cap is blue, variegated with black, having a yellow fpot on the crown, and one on each fide below the eyes, and a blue chin. Lath. ind. orn. i. 121. n. 117. 8.

Pf. brafilienfis cyanocephalos. Briff. av. iv. 234. n. 21.—Ajuru-curuca. Raj. av. 33. n. 3. Will. orn. angl. 115. n. 9.—Aourou-couraou. Buff. oif. vi. 219. var. 3.—Blue-topped Parrot. Lath. fyn. i. 286. n. 91. c.

Inhabits Brafil.—The primary wing quills, according to Mr Latham, are variegated with yellow, red, and violet-blue.

488

e. Varied Ajuru Parrot .- 97. e. Ps. aestivus varius.

The crown, cheeks, and chin, are yellow, and the front blue. Lath. ind. orn. i. 122.
n. 117. f.

Ps. amazonicus varius. Briss. av. iv. 281. n. 37. t. 26. f. 2. Ger. orn. i. 96. t. 115.—Ajuru-curau secundus. Marcgr. bras. 205. Raj. av. 33. n. 2.—Aourou-couraou. Buss. ois. vi. 219. var. 4.—West-india green Parrot. Edw. av. iv. t. 162. Lath. syn. i. 287. n. 91. D.

The crown is varied with blue; the fcrag and upper part of the back are variegated with yellow; the bill is ash coloured.

489

ζ. Amazonian Ajuru Parrot.—Ps. aestivus amazonicus.

Is pale green, with a pale yellow front, and tawny temples. Lath. ind. orn. i. 123. n. 117. ζ .

Pf. amazonicus. Syft. nat. ed. Gm. i. 341. n. 33.—Pf. amazonicus fronte-lutea. Briff. av. iv. 261. n. 32.—Aourou-couraou. Buff. oif. vi. 221. var. 5.—Brafilian yellow-fronted Parrot. Lath. fyn. i. 287. n. 91. E.

Inhabits Brasil and Amazonia.—This variety is almost double the size of all the former varieties of this species: The cap, cheeks, and chin are yellow, the feathers on the chin having bluish tips; the eye-brows are blue; the outer wing quills are blue, being red in the middle; the lateral tail quills are blue about the middle of their outer webs, and have red inner webs.

n. Great Ajuru Parrot. - Pf. aestivus magnus.

Is green, with a blue forehead; the crown, cheeks, chin, and middle of the belly, being yellow. Lath. ind. orn. i. 122. n. 117. n.

Inhabits Brafil.—This variety is nearly as large as the former, and measures fourteen inches and a half long: The bill and cere are blackish; the armpits, or space under the wings, are red; the wing quills are marked with a red spot, and the lateral tail quills are red at the base; the belly is yellowish brown; the legs and feet are brown.

491

0. Yellow-necked Ajuru Parrot. - Pf. aestivus slavicollo.

Is green, with yellow head and neck, and red shoulders. Lath. ind. orn. i. 123. n. 117. 9. Ger. orn. i. 95. t. 110.

Is equal in fize to the former, and like it the wing quills are marked with a red fpot, and the lateral tail quills are red at the base.

492

1. Counterfeit Ajuru Parrot.—Ps. aestivus simulatus.

Is green, variegated with yellow; having a blue forehead, and red shoulders. Lath. ind. orn. i. 123. n. 117. ..

Perroquet Amazone varié. Pl. enl. n. 120.—Counterfeit Parrot. Will. orn. angl. 110? Lath. fyn. i. 295.

Inhabits Brasil.—The fize of this variety is not mentioned; as in the two former varieties the wing quills are marked with a red spot, and the lateral tail quills are red at the base.

493

117. Yellow-shouldered Parrot .- 99. Psittacus luteus. 114.

Is green, with a blue crown, and yellow shoulders; the larger wing coverts being marked with a large orange spot.

Pf. luteolus. Lath. ind. orn. i. 123. n. 118.—Yellow-shouldered Parrot. Lath. fyn. i. 282. n. 92.

Inhabits South America.—Is eleven inches long: The lower edge of the frontlet and the chin are yellow; the large fpot on the wing is tawny yellow or dull orange.

494

118. Yellow-winged Parrot .- 100. Phttacus ochreopterus. 115.

Is green, with white front and orbits; the crown, cheeks, chin, throat, and outer feathers of the leffer coverts, being yellow.

Pf. ochreopterus. Lath. ind. orn. i. 123. n. 119. Briff. av. iv. 287. n. 38. Klein, av. 25. n. 11. Frifch, av. t. 48.—Crik à tete et gorge jaune. Buff. oif. vi. 222.—Yellow-headed Creature. Bancr. guian. 159.—Yellow-winged Parrot. Lath. fyn. i. 289. n. 93.

Inhabits South America.—This fpecies, which is not very tractable, is thirteen inches long: The bill is whitifh; the feathers on the upper parts of the body are edged with black; the leffer wing coverts, on the fide of the wing farthest from the body, are yellow, and those on the fide next the body

are red with yellow edges; the wing quills are black, fome having blue and green edges, and four of them in the middle of the wing having the inner webs red at the base; the four middle tail feathers are yellowish at the tips; the next three on each side are red from the base to the middle; the outermost have blue outer webs; the legs and feet are ash coloured.

119. Mealy Parrot. - 101. Psittacus pulverulentus. 116.

Is green, the upper parts of the body being as if powdered over with white.

495

496

497

498

Pf. pulverulentus. Lath. ind. orn. i. 123. n. 120.—Meunier, Crik poudré. Buff. oif. vi. 225.—Meunier de Cayenne. Pl. enl. n. 861.—Meally green Parrot. Lath. fyn. i. 291. n. 94.

Inhabits Cayenne.—This species, which is perhaps the largest of the American Parrots, is a very distinct speaker: The bill is whitish; the feathers on the face have their edges slightly tinged with brown; the crown of the head is marked with a yellow spot; the wing quills are blackish blue, their outer webs being black; the wings are each marked with a large red spot.

120. Havanna Parrot.—102. Psittacus havanensis. 117.

Is green, the front, chin, and throat, being blue ash, the orbits ash coloured, and the breast marked with a large red spot.

Ps. havanensis. Lath. ind. orn. i. 124. n. 121.—Ps. amazonicus gutture caeruleo. Briss. av. iv. 266. n. 33. t. 25. f. 1. Ger. orn. i. 95. t. 114.—Crik à face bleue. Buss. ois. vi. 227.—Perroquet de la Havane. Pl. enl. n. 360.—Blue-fronted Parrot. Lath. syn. i. 291. n. 95.

Inhabits near the Havanna.—Is twelve inches long: The bill is whitish, with a black tip and ash coloured cere; the feathers of the upper parts of the body have blackish tips, and of the under parts bluish; the primary wing quills are black, and those in the middle have a red spot; the lateral tail quills are red at the base; the legs and feet are grey.

121. Paradise Parrot. - 103. Psittacus paradisi. 34.

Is yellow; the chin, belly, and base of the tail quills, being red.

Pf. paradifi. Lath. ind. orn. i. 127. n. 132.—Pf. luteus Cubae. Briff. av. iv. 308. n. 48.—Papagai de Paradis. Buff. oif. vi. 237.—Perroquet de Cuba. Pl. enl. n. 336.—Cuba Parrot. Brown, jam. 473. Catefb. carol. i. t. 10.—Paradis Parrot. Lath. fyn. i. 300. n. 105.

Inhabits Cuba.—Is about twelve inches and a half long: The bill, legs, and feet, and the naked orbits are white; the irides are red; the primary wing quills are white; the two middle tail quills are yellow; the reft of the tail quills are red, their extreme third part being yellow.

122. Aurora Parrot.—104. Psittacus aurora. 50.

Is yellow; the armpits, edges of the wings, and the middle of the outer webs of the primary wing quills, being red.

Pf. aurora. Mantiff. 1771. p. 524. Lath. ind. orn. i. 127. n. 133.—Pf. luteus. Briff. av. iv. 306. n. 47.—Perroquet jaune. Salern. orn. 69. n. 9. t. 7. f. 2. Pl. enl. n. 13.—Amazone jaune. Buff. oif. vi. 214. t. 10.—Aurora Parrot. Lath. fyn. i. 301. n. 106.

Inhabits

500

501

502

Inhabits Brafil.—Is twelve inches long, being about the fame fize with the Ajuru Parrot: The bill, cere, lcgs, feet, and claws are white; the eye-lids and irides are red; the tail is rounded at the end, the four outer quills being red on their inner webs from the base to the middle.

123. Pafferine Parrot. - 105. Psittacus passerinus. 47.

Is greenish-yellow; having a blue spot on each wing, a blue rump, and the under surfaces of the wings being blue. Muf. ad. frid. i. 14. and ii. 16.

Pf. pafferinus. Lath. ind. orn. i. 133. n. 156. Borowsk. nat. ii. 95. n. 17.—Pfittacula brasilienfis. Briff. av. iv. 384. n. 81.—Tuiete. Raj. av. 34. n. 6. Will. orn. angl. 116. ch. 14. n. 6.—Eté, Toui-eté. Buff. oif. vi. 283.-Least green-and-blue Parrakeet. Edw. glean. t. 235.-Little blueand-green Parrakeet. Lath. fyn. i. 319. n. 127.-Short-tailed yellowifh-green Parroquet. Bancr. guian. 162.

Inhabits Brasil and Guiana.—Is about the fize of a Common Sparrow, measuring only four inches long: The bill, cere, orbits, legs, feet, and claws are orange; the under furfaces of the wing quills, and the upper wing coverts are blue.

124. Blue-collared Parrot.—106. Psittacus cyanolyseos. 118.

Is greenish-yellow; having a blue collar, and red rump. Molin. hist. nat. Chil. 227. Lath. ind. orn. i. 127. n. 134.

Inhabits Chili.—This fpecies, which is fomewhat larger than a pigeon, is exceeding troublefome tothe corn fields, but is docile and eafily tamed; it forms its neft in rocky precipices, laying generally two white eggs, like those of pigeons in fize; its flesh is reckoned exceedingly good, especially when young.

125. Dusky Parrot .- 107. Psittacus sordidus. 40.

Is brownish; with a blue chin, green tail and wings, and red bill and ventlet.

Pf. fordidus. Lath. ind. orn. i. 127. n. 135.—Pf. novae hifpaniae. Briff. av. iv. 303. n. 45.— Papagai brun. Buff. oif. vi. 246.—Dusky Parrot. Edw. av. iv. t. 167. Lath. syn. i. 304. n. 110.

Inhabits New-fpain.—Is about the fize of a pigeon: The bill is red, with a blackish cere; the orbits are naked and pale ash coloured; the irides are chefnut; the temples, hind-head, rump, and upper furface of the tail are greenish; the under coverts of the tail are red; the legs and feet are leadcoloured, with black claws...

126. Red banded Parrot. - 108. Psittacus dominicensis. 119.

Is green, with a red band across the forehead; the wing quills being blue.

Pf. dominicenfis. Lath. ind. orn. i. 126. n. 131.—Papagai à bandeau rouge. Buff. oif. vi. 241.— Perroquet de St Domingue. Pl. enl. n. 702.—Red-banded Parrot. Latlı. fyn. i. 300. n. 104.

Inhabits Hispaniola.—Is nine inches and a half long: The scrag of the neck and the back are marked with finall femilunar black fpots; the bill is a pale flesh colour; the legs and feet are ash coloured.

506

507

PIES.

Parrot.

503 127. Crimson-winged Parrot.—109. Psittacus erythropterus. 120.

Is green, with blackish orbits; the fore part of the back being black, and the hinder part blue; the wing coverts are crimson. Lath. ind. orn. i. 126. n. 130. Syn. i. 299. n. 103. sup. 60.

Inhabits New-fouth-wales.—Is from ten to thirteen inches and a half long: The bill is red, with a dufky or dirty cere; the tail is rather longer in proportion than in the other species of this subdivision of the genus; the legs and feet are dirty looking.—The female of this species differs from the male in having a green back, the wing coverts green, the middle feathers of the greater coverts being red. Lath.

128. Festive Parrot.—110. Psittacus festivus. 35.

Is green, with a purplish front; the eyebrows and chin being blue, and the back bloodred.

Pf. festivus. Lath. ind. orn. i. 126. n. 129.—Tavoua. Buff. oif. vi. 240.—Perroquet Tahué. Pleenl. n. 840.—Festive Parrot. Lath. fyn. i. 298. n. 102.

Inhabits Guiana.—This fpecies, which is very active, but fierce and untractable in its manners, is about the fize of a pigeon, and meafures eleven inches long: The bill is lead coloured, with a black tip, and having a blackiff grey eere; the irides are faffron yellow; the legs and feet are aft eoloured, with black claws.

505 129. Robust Parrot.—111. Psittacus robustus. 121.

Is green, the head being fomewhat ash coloured; the wing coverts are dirty black with green edges, and marked with a red spot; the wing and tail quills are brown.

Pf. robustus. Lath. ind. orn. i. 112. n. 94.—Robust Parrot. Lath. fyn. i. 296. n. 100.

Its place uncertain.—Is about the fize of a pigeon, and measures twelve inches long: The bill is large and of a white colour; the upper edge of the frontlet is blackish; the feathers on the trown of the head have each a dusky streak in the middle; the legs and feet are dusky.

130. New-Guinea Parrot.—112. Psittacus magnus. 122.

Is grass-green; having the primary wing quills blue, and the under surfaces of the secondaries red.

Pf. viridis. Lath. ind. orn. i. 125. n. 125.—Grand Perroquet vert. Sonner. voy. 74. t. 108.—New-guinea green Parrot. Lath. fyn. i. 296. n. 99.

Inhabits New-guinea.—Is about the fize of the Ajuru Parrot: The upper mandible of the bill is of an orpiment-yellow colour, and the under mandible black; the irides are flame yellow.

131. Eastern Parrot.—Psittacus orientalis.

Is green; the outer margin of the wings, and the primary wing quills, are bluish; the tail is tipt with yellow. Lath. ind. orn. i. 125. n. 126. Syn. sup. 64. n. 140.

Inhabits

Inhabits India.—Is about the fize of the last: The bill is red, with a yellow tip; the legs and feet are yellow.

132. Blue-cheeked Parrot.—Psittacus adscitus.

Is green, with blue cheeks and wings; the fore part of the back is black with yellow streaks, and the hinder part is yellowish. Lath. ind. orn. i. 126. n. 127. Syn. sup. 64. n. 142.

Its place uncertain.—Is eleven inches and a half long: The bill and crown of the head are pale yellow; the cheeks are pale blue; the wings are bright blue; the logs and feet are dufky; the vent-let is red.

133. Batavian Parrot.—Psittacus batavensis.

Is green with yellow streaks; the hind head and nape being blackish, and the face and thighs scarlet. Lath. ind. orn. i. 126. n. 128.

Amber Parrot. Lath. fyn. fup. 65. n. 144.

508

509

511

512

Inhabits near Batavia.—The bill is black; the legs and feet are ash coloured.

510 134. Tarabe Parrot.—113. Psittacus Taraba. 123.

Is green, the head, chin, throat, breast, and lesser wing coverts, being red.

Pf. Tarabe. Lath. ind. orn. i. 125. n. 124.—Pf. brafilicnfis erythrocephalus. Briff. av. iv. 240. n. 24.—Tarabe. Raj. av. 33. n. 5. Will. orn. angl. 114. n. 9.—Tarabé, or Amazone à tete rouge. Buff. oif. vi. 211.—Red-headed Amazons Parrot. Lath. fyn. i. 295. n. 97.

Inhabits Brafil.—Is about ten inches long: The bill, legs, and feet are afh coloured, with black claws; the orbits are naked and white; the irides are yellowish brown.

135. Brasilian Parrot .- 114. Psittacus brasiliansis. 36.

Is yellowish green; with a red face, blue temples, and ash coloured orbits. Lath. ind. orn. i. 125. n. 122. 3.

Pf. brafiliensis fronte rubra. Briss. av. iv. 254. n. 30.—Crik à tete blue. Buff. ois. vi. 232. var. 3.—Brafilian green Parrot. Edw. av. iv. t. 161. Bancr. guian. 160. Lath. syn. i. 294. n. 96. c.

Inhabits Brafil.—Is about the fize of a pigcon: The armpits are red; the fecond tail quill on each fide is red on its outer web; the rest of the tail quills and the primary wing quills have blue outer webs. Dr Gmelin supposes this might be considered as a variety of the next species, and Mr Latham has placed it as such.

136. Autumnal Parrot.—115. Psittacus autumnalis. 37.

Is green; with a fearlet front, and having a fearlet fpot on the wing quills; with a blue crown, and blue primary wing quills.

Pf. autumnalis. Lath. ind. orn. i. 124. n. 122.—Pf. americanus. Briff. av. iv. 293. n. 40. Ger.

orn. ii. 22. t. 135.—Crik à tete bleue. Buff. oif. vi. 232. var. 2.—Lesser green Parrot. Edw. av. iv. t. 164. Bancr. guian. 160.—Autumnal Parrot. Lath. syn. i. 293. n. 96. B.

Inhabits Guiana.—Is about the fize of a pigeon: The bill and cere are whitish; the orbits are blue, with a tawny spot below each eye; the irides are golden yellow; the greater wing coverts are blue, the feathers being red at the base; the wing quills nearest the body are green; the tail quills are green on their upper surfaces, and yellowish at the tips, the outermost on each side having its outer web blue; on their under surfaces they are yellow, with reddish bases, and a green spot on the middle.

513 β. Blue-headed Autumnal Parrot.—115. β. Pf. autumnalis cyanocephalus.

The front and chin are blue; the throat and breast are red; the wing quills are blue, those in the middle having red bases. Lath. ind. orn. i. 124. n. 122. \(\beta\).

Crik à tete bleue. Buff. oif. vi. 230.—Blue-faced green Parrot. Edw. glean. t. 230. Lath. fyn. i. 293. n. 96.—Blue-headed creature. Bancr. guian. 158.

Inhabits with the former, and is of the fame fize.

γ. Cocho Autumnal Parrot.—115. γ. Pf. autumnalis Cocho.

The head is variegated with red and whitish. Lath. ind. orn. i. 124. n. 122. y.

Cocho. Fernand. nov. hisp. 38.—Crik à tete bleue. Buff. ois. vi. 231. var. 1.—Red-and-white-faced Parrot. Lath. syn. i. 293. n. 96. A.

Inhabits with the former, and is of the fame fize.—This and the former variety agree in general with the first variety of the Autumnal Parrot, except in such circumstances as are particularly noticed.

515 137. Scarlet-headed Parrot.—Psittacus coccineocephalus.

Is green, the crown and front being scarlet; the rump is greenish yellow; the outer webs of the wing and tail quills are blue.

Pf. pileatus. Lath. ind. orn. i. 125. n. 123. Scop. an. i. n. 32.

Its place uncertain.—Is about the fize of the Miffel Thrush: The bill is pale horn coloured; the cheeks are naked; the outer edges of the wings are yellow; the tip of the tail is yellow.

516 138. Hawk-headed Parrot -116. Psittacus accipitrinus. 38.

Is green, with a grey head; the neck and breast being varied with bluish, and the wing and tail quills having blue tips.

Pf. accipitrinus. Lath. ind. orn. i. 111. n. 89. Ger. orn. i. 96. t. 120. Borowsk. nat. ii. 93. n. 13.—Pf. varius indicus. Briss. av. iv. 300. n. 43.—Pf. elegans. Clus. exot. 365. Raj. av. 32. n. 11.—Perroquet varié. Buss. ois. vi. 117.—Hawk-headed Parrot. Edw. av. iv. t. 165. Lath. syn. i. 266. n. 74.

Vol. I. 4 H . Inhabits

Inhabits India.—Is about the fize of a pigeon, and measures twelve inches and a half long: The bill, cere, and naked orbits are blackish; the irides are yellowish brown, or walnut coloured; the legs and feet are lead coloured.

β. Mailed Hawk-headed Parrot.—116. β. Ps. accipitrinus loricatus.

The feathers on the head are long, narrow, and white, with black streaks. Lath. ind. orn. i. 112. n. 89. \(\beta \).

Papagai maillé. Buff. oif. vi. 239. t. 12.—Perroquet maillé. Pl. enl. n. 526.—Mailed Parrot. Lath. fyn. i. 267. n. 74. A.

Inhabits Guiana in a domesticated state, being descended from the former; from which it chiefly differs by the long narrow white feathers on the crown and face, which are all streaked with black down the middle; these it erects into a kind of crest when irritated.

139. Menstrual Parrot.—117. Psittacus menstruus. 39.

Is green, with a bluish head, and red ventlet. Scop. an. i. 33.

5.18

519

5,20

Pf. menstruus. Lath. ind. orn. i. 113. n. 95.—Pf. gujanensis cyanocephalus. Briss. av. iv. 247. n. 28.—Papagai à tete-et-gorge bleue. Buss. ois. vi. 243.—Perroquet à tete bleue de Cayenne. Plenl. n. 384.—Blue-headed Parrot. Edw. glean. t. 314. Lath. syn. i. 301. n. 107.

Inhabits Guiana.—This species, which is not very docile, and has the natural voice of a Jackdaw, is about the fize of a Turtle dove: The head and neck are bluish, the feathers being brown, with blue tips; the back and wings are green, the wing coverts being yellowish green, and the wing quills green with brown inner edges; the belly is green, the feathers having bluish tips; the tail quills are green, with blue tips, the three outermost on each fide having blue outer webs, and the inner webs being blood-red from the base to the middle; the ventlet is red, its feathers having yellowish blue tips; the bill is horn coloured, the sides of the upper mandible being tawny; the orbits are bluish hoary, and the eyes are black.

140. Purple-bellied Parrot. - 118. Psittacus purpureus. 124.

Is blackish-brown above, and purple underneath; the crown and cheeks being black, the orbits blue, and the neck surrounded by a rusty collar, spotted with dusky.

Pf. purpureus. Lath. ind. orn. i. 129. n. 140.—Perroquet violet. Barrere, fr. equ. 144.—Papagai violet. Buff. oif. vi. 244.—Perroquet varié de Cayenne. Pl. enl. n. 408.—Little dusky Parrot. Edw. glean. t. 315. Lath. syn. i. 302. n. 108.

Inhabits Surinam.—This species, which is not very tractable, is about the fize of an ordinary pigeon: The bill is dusky, with an orange coloured spot on each side; the wing and tail quills are blue, the lateral tail quills being ruddy on their inner webs and blue at the tips; the legs and feet are dusky or dirty-like.

141. Black-headed Parrot .- 119. Psittacus melanocephalus. 41.

Is green above, and yellow beneath; having a black head, white breast, and carnation orbits. Mus. ad. frid. ii. 15.

Pf. melanocephalus. Lath. ind. orn. i. 128. n. 136.—Pf. mexicanus pectore albo. Briff. av. iv. 297. n. 42.—Pf. atricapillus. J. F. Miller, illustr. t. 4. A.—Maïpouri. Buff. oif. vi. 250. Pl. enl. n. 527.—White-breasted Parrot. Edw. av. iv. t. 169. Lath. syn. i. 305. n. 112.

BIRDS.

521

522

523

Inhabits New-spain, Guiana, and the Caraccas.—This species lives in the woods, flying in small flocks, with a whistling voice; it is about the fize of a Turtle dove, being nine inches and a half long, and thicker in proportion to its length than the other species of the genus; it is very untractable, and can scarcely be tamed unless when caught very young: The bill and cere are carnation coloured; the cheeks are yellow; the scrag is orange; the outer webs of the primary wing quills are blue, their inner webs and under surfaces being black; the first two or three of the secondaries are green edged with yellow, and the rest entirely green; the tail is rounded; the legs and seet are brown ash, with blackish claws.

142. Hooded Parrot.—120. Psittacus pileatus. 125.

Is green, with a black head and white orbits; having a blue spot on each shoulder, and the tail being tipt with blue.

Pf. Caïca. Lath. ind. orn. i. 128. n. 137.—Caïca. Buff. oif. vi. 253.—Perruche à tete noir de Cayenne. Pl. enl. n. 744.—Hooded Parrot. Lath. fyn. i. 306. n. 113.

Inhabits Cayenne.—This species resembles the former in the thickness of its body; it is migratory, and measures eight inches and a half long: The bill, legs, and feet are red; the chin is yellowish; the two middle quill feathers of the tail are entirely green, and the rest are tipt with blue.

143. Louisiana Parrot.—121. Psittacus ludovicianus. 126.

Is fea-green; with a tawny yellow head, growing reddish near the base of the bill.

Lath. ind. orn. i. 93. n. 33. s.

Pf. viridis capite luteo. Frifch, av. t. 52. Ger. orn. ii. 17. t. 112.—Papagai à tete aurore. Buff. oif. vi. 247. Du Pratz, voy. ii. 128.—Orange-headed Parrot. Lath. fyn. i. 304. n. 111.

Inhabits Louisiana.—This species is very wild and exceedingly difficult to tame; it slies about in large flocks, making a great noise, and feeds mostly on the seeds of Bromelia and Liriodendron: It is thirteen inches long; the bill is yellowish white, and the legs and feet are white. Mr Latham places this as a variety of the Carolina Parrot, No. 370. among the species which have long wedge-like tails, quoting the 499th plate of the Planches enluminées, which Dr Gmelin refers to the Carolina species.

144: Red-throated Parrot.—122. Psittacus collarius. 42.

Is green; with red chin and throat. Lath. ind. orn. i. 128. n. 139.

. Pf. jamaicenfis gutture rubro. Briff. av. iv. 241. n. 25.—Pf. minor collo miniaceo. Raj. av. 181. n. 8.—Xaxabes. Oviedo, l. iv. c. 4.—Saffebé. Buff. oif. vi. 245.—Common Jamaica Parrot. Sloan, jam. 297. n. 9.—Red-throated Parrot. Lath. fyn. i. 303. n. 109.

Inhabits Jamaica.—Is about the fize of a pigeon: The wing quills are black, with green outer edges.

4 H 2

527

145. Senegal Parrot.—123. Psittacus senegalus. 43.

Is green above, and yellow beneath; having an ash coloured head, with naked black orbits.

Pf. fenegalus. Lath. ind. orn. i. 128. n. 138.—Pfittacula fenegalenfis. Briff. av. iv. 400. n. 92. t. 24. f. 2.—Perroquet à tete grife. Buff. oif. vi. 123. Pl. enl. n. 288.—Senegal Parrot. Lath. fyn. i. 307. n. 114.

Inhabits Senegal.—This fpecies, which measures eight inches and a half long, is very numerous about the fandy shores of the river Senegal; it slies about in little companies of five or fix together, making a sharp harsh noise, and roosts on the highest tops of the trees: The bill is ash coloured, with a blackish cere; the irides are yellow; the wing quills and feathers of the bastard wing are ash coloured, having green edges and green tips; the legs and feet are reddish ash.

525 146. Tuipara Parrot.—124. Psittacus Tuipara. 127.

Is pale green; with a femilunar red fpot on the front, and having a yellow fpot on the middle of each wing.

Pf. Tuipara. Lath. ind. orn. i. 129. n. 141.—Pfittacula brafilienfis erythrocephalos. Briff. av. iv. 383. n. 82.—Tuipara. Raj. av. 35. n. 7. Will. orn. angl. 117.—Red-fronted Parrot. Lath. fyn. i. 308. n. 115.

Inhabits Brafil.—Is about the fize of a Lark: The bill is carnation red; the tail is very fhort; the legs, feet, and claws are grey.

526 147. Golden-winged Parrot.—125. Psittacus chrysopterus. 44.

Is green, with white naked orbits; having a blue and tawny yellow fpot on each wing.

Pf. chryfopterus. Lath. ind. orn. i. 129. n. 142.—Pfittacula alis deauratis. Briff. av. app. 130. n. 97.—Perruche aux ailes d'or. Buff. oif. vi. 170.—Golden-winged Parrakeet. Edw. glean. t. 293. f. 2. Lath. fyn. i. 309. n. 116.

Inhabits India.—Is very little larger than a Lark: The bill is white; the first four primary wing quills have blue outer webs, and their inner webs are brown, all the rest are orange on their upper surfaces and yellow underneath.

148. Ethiopian Parrot.—126. Psittacus pullarius. 45.

Is green; with red chin and front, ash coloured orbits, blue rump, and tawny tail, having a black transverse band.

Pf. pullarius. Muf. ad. frid. ii. 15. Scop. an. i. 33. n. 34. Lath. ind. orn. i. 129. n. 143. Borowsk. nat. ii. 95. n. 18.—Pf. minimus. Cluf. exot. 365.—Pf. pufillus aethiopicus. Raj. av. 31. n. 10.—Pf. minor versicolor. Seb. muf. ii. 40. t. 40. f. 1.—Pfittacula guineensis. Briff. av. iv. 387. n. 85. Ger. orn. ii. 21. t. 133.—Perruche à tete rouge de Guinée, Moineau de Guinée. Buff. oif. vi. 165. t. 7.—Petite Perruche de Guinée. Pl. enl. n. 60.—Little red-headed Parrakeet, or Guinea Sparrow.

Sparrow. Albin, av. iii. t. 15. Edw. glean. t. 237.—Red-headed Guinea Parrakeet. Lath. fyn. i. 309. n. 117.—Indianifche Spatz. Wirfing. vog. t. 12.—Kleinster gruner Papagay. Frisch, av. t. 54.

Inhabits Guinea, Ethiopia, India, and Java.—Is about the fize of a Lark, and measures five inchesand a half long; this small species is very imitative of the manners of other birds, but by no means equally dextrous in learning to speak; it is exceedingly fond of its own species: The bill is red, with an ash coloured cere; the irides are bluish; the two middle tail quills are entirely green, and the rest have green tips; the legs, feet, and claws are grey. In the female the front is of a less vivid red colour, and the wings are edged with yellow.

528

149. Malacca Parrot. - Psittacus malaccensis.

Is green; with blue front and rump, the under wing coverts being red. Lath. ind. orn. i. 130. n. 144.

Petite Perruche de Malacca. Sonner. voy. ii. 212.—Blue-rumped Parrakeet. Lath. fyn. fup. 66.

Inhabits Malacca.—Is about the fize of the former: The bill is of a greyish violet colour; the irides are red; the legs and feet are brown.

529

150. Red-naped Parrot. - Psittacus cervicalis.

Is green; the front, a femilunar spot on the nape, the under part of the throat, and the breast, being scarlet. Lath. ind. orn. i. 130. n. 145.

Red-naped Parrakect. Muf. D. Davies. Lath. fyn. fup. 66.

Its place uncertain.—Is about the fize of the two former: The tail is entirely green.

530

151. Indian Parrot .- 127. Psittacus indicus. 128.

Is green; with pale carnation orbits, and red or orange crown; the hinder part of the rump is red; the inner webs of the wing quills, and the under furface of the tail quills, are bluish green.

Pf. afiaticus. Lath. ind. orn. i. 130. n. 146.—Pf. minimus. Ger. orn. ii. 21. t. 134.—Pfittacula indica. Briff. av. iv. 390. n. 86.—Smallest red-and-green Indian Parrot. Edw. av. i. t. 6.—Red-and-green Indian Parrot. Lath. syn. i. 311. n. 118.

Inhabits India.—Is about the fize of the former, measuring five inches long: The bill is orange or yellowish red; the upper tail coverts are red; the legs, feet, and claws, are carnation red.

53**1**

152. Vernal Parrot.—Pfittacus vernalis.

Is bright green, the wings being paler; the throat, rump, and tail, are blood-red. Mus. carls. ii. 29. Lath. ind. orn. i. 130. n. 147.

Its place is not mentioned.—Is about the fize of the former, measuring five inches and a half intength: The bill is pale reddish; the wing coverts are very full green, and the wing quills of a light or bluish green colour; the under surface of the tail is blue; the legs and feet are pale; the under parts of the body are pale green.

533

534

535

153. Saphirine Parrot.—128. Psittacus galgulus. 46.

Is green, with a faphire-blue crown; the rump and breast being scarlet.

Pf. galgulus. Amoen. acc. iv. 236. Muf. ad. frid. ii. 16. Ofbec. voy. 101. Lath. ind. orn. i. 131. n. 148.—Pfittacula malaccenfis. Briff. av. iv. 386. n. 84.?—Avicula cechini. Aldr. orn. l. xx. 560.—Perruche à tete bleue. Buff. oif. vi. 163.—Petite Perruche de Pérou. Pl. enl. n. 190. f. 2.—Petit Perruche de Luçon. Sonner. voy. 76. t. 33. f. inf.—Saphire-crowned Parrakeet. Edw. glean. t. 293. f. 2. Lath. fyn. i. 312. n. 119. A.

Inhabits the Philippine islands, and probably in other islands of the Indian ocean.—This species is scarcely five inches long, and sometimes a good deal smaller; it is very fond of the milky juice of the cocoa-nut, and sleeps suspended to the branch of a tree by one foot: The bill, legs, and feet are grey; the wing quills are blue on their under surfaces, except the outer edges which are green; the under surfaces of the tail quills are bluish; the throat is blood-red. In the female the red colour of the throat and the blue colour of the crown are wanting, these parts being of the general green colour of the body.

β. Philippine Saphirine Parrot. - 128. β. Ps. galgulus philippensis.

Is green; with a yellowish blue head, having a transverse orange bar on the hind head; the front, under part of the throat, and the tail coverts, being red. Lath. ind. orn. i. 131. n. 148. s.

Pfittacula philippensis. Briss. av. iv. 392. n. 87. t. 30. f. 1.—Coulicassi. Buss. ois. vi. 169.—Perruche des Philippines. Pl. enl. n. 520. f. 1. 2.—Philippine Parrakeet. Lath. syn. i. 311, n. 119.

Inhabits with the former, and is of the same size.—The bill, legs, feet, and claws are red; the wing quills are blackish, with dark green edges; the tail is rounded, the coverts being almost equally long with the quill feathers. In the *female* the head and nape are entirely green, and the cheeks have each a bluish spot. Lath.

154. Anaca Parrot.—129. Psittacus Anaca. 129.

Is green above, and reddish brown underneath; the crown being chesnut; the tail and a spot on the back are pale brown, and the wings are edged with red.

Pf. Anaca. Lath. ind. orn. i. 131. n. 149.—Pfittacula brafilienfis fusca. Brist. av. iv. 403. n. 93.—Anaca. Raj. av. 35. n. 8. Will. orn. angl. 117. n. 8. Buff. oif. vi. 260.—Chesnut-crowned Parrakeet. Lath. syn. i. 314. n. 120.

Inhabits Brafil and Guiana.—Is about the fize of a Lark: The bill and orbits are brown; the under coverts of the tail are reddish brown; the tips of the primary wing quills are sea-green; the legs, feet, and claws are blackish.

155. Purple-tailed Parrot.—130. Psittacus purpuratus. 130.

Is green, with ash coloured crown and scrag; having the rump blue, the tail coverts green and very long, and the tail quills red-purple tipt with black.

Pf. purpuratus. Lath. ind. orn. i. 132. n. 150.—Pf. porphyrurus, Purple-tailed Parrakeet. Nat. mifc. No. vi. t. 16. Lath. fyn. i. 315. n. 121.

Inhabits Cayenne.—Is eight inches long: The bill is yellowish; the scapulars, bastard wings, edges of the wings, and ends of the wing quills, are dusky; the two middle tail quills are green edged with black at the tip; the legs and feet are ash coloured with yellowish claws.

536

156. Grey-headed Parrot.—131. Phitacus canus. 131.

Is green; the head, chin, and throat, being greenish grey; the tail is rounded, and has a broad black bar.

Pf. canus. Lath. ind. orn. i. 132. n. 151.—Pfittacula madagafcarienfis. Briff. av. iv. 394. n. 88. t. 30. f. 2.—Perruche à tete grife. Buff. oif. vi. 171.—Petite Perruche de Madagafcar. Pl. enl. n. 791. f. 2.—Grey-headed Parrakeet. Lath. fyn. i. 315. n. 122.

Inhabits Madagascar and Mauritius.—Is scarcely six inches long: The bill is grey; the legs, feet, and claws are hoary. In the female the head is green.

537

157. Black-winged Parrot.—132. Psittacus melanopterus. 132.

Is pale green; the back, wing coverts, primary wing quills, and a bar on the tail, being black.

Pf. melanopterus. Lath. ind. orn. î. 132. n. 152.—Perruche aux ailes variées. Buff. oif. vi. 172.—Petite Perruche de Batavia. Pl. enl. n. 791. f. 1.—Petite Perruche de Luçon. Sonner. voy. 78. t. 41.—Black-winged Parrakeet. Brown, illustr. t. 8. Lath. syn. i. 316. n. 123.

Inhabits Java and Luzonia.—Is fix inches long: The bill and legs are dusky; the green colour on the under parts of the body has a bluish tinge; the upper part of the tail is purplish; the two middle tail quills are green, without any bar; the under coverts of the tail are almost equal in length with the tail quills; the secondary wing quills are yellowish, spotted with blue.

538

539

158. Cape Parrot _133. Psittacus capensis. 133.

Is green; the wings being varied above with blue, and entirely blue underneath; having reddish bill and legs. Lath. ind. orn. i. 132. n. 153.

Perruche aux ailes bleues. Buff. oif. vi. 173.—Petite Perruche du Cap. Pl. enl. n. 455. f. 1.—Blue-winged Parrakeet. Lath. fyn. i. 317. n. 124.

Inhabits at the Cape of Good Hope.—Is four inches and a half long: This species is sometimes found with a blue spot on the crown, and having yellow legs and feet. Lath.

159.

159. Collared Parrot.—134. Psutacus torquatus. 134.

Is green; having a yellow transverse bar streaked with black on the hind head.

Pf: torquatus. Lath. ind. orn. i. 133. n. 154.—Perruche à collier. Buff. oif. vi. 173.—Petite. Berruche à collier. Sonner. voy. 77. t. 39.—Collared Parrakeet. Lath. fyn. i. 317. n. 125.

544

Inhabits the Philippine islands.—This species, which does not learn to speak, is about the size of the Ethiopian Parrot, N°. 527. The bill, irides, legs, and feet, are blackish grey. In the female the hind head is blue with transverse black streaks.

540 160. Lesser Parrot.—135. Psittacus minor. 135.

Is green; having a fearlet crown, fearlet tail coverts, blue breast, and black primary wing quills.

Pf. minor. Lath. ind. orn. i. 133. n. 155.—Perruche aux ailes noires. Buff. oif. vi. 174. Sonner. voy. 77. t. 4.—Luzonian Parrot. Lath. fyn. i. 318. n. 126.

Inhabits Luzonia.—Is finaller than the preceding; it fleeps hanging by one foot to the branches of trees, and is fond of the Cocoa-nut juice: The bill, irides, legs, and feet, are yellow; the belly is yellowish green; the upper tail coverts are red. In the *female* the frontlet and breast are red, and the forag has a yellow spot.

161. Tovi Parrot.—136. Psittacus Tovi. 136.

Is green; with a pale orange fpot on the throat; the wings have each a broad chefnut band, varied with fplendid golden green.

Pf. Tovi. Lath. ind. orn. i. 134. n. 157.—Pfittacula gutture luteo. Briff. av. iv. 396. n. 89. t. 30. f. 3.—Tovi à gorge jaune. Buff. oif. vi. 280.—Petite Perruche à gorge jaune. Pl. enl. n. 190. f. 1.—Yellow-throated Parrakeet. Lath. fyn. i. 319. n. 128.

Inhabits America?—Is about the fize of a Lark, measuring a little more than fix inches long; the legs and feet are grey.

542 162. Tirica Parrot.—137. Psittacus Tirica. 137.

Is green; with a carnation bill; and having bluish legs, feet, and claws.

Pf. Tirica. Lath. ind. orn. i. 134. n. 158.—Pfittacula brafilienfis. Briff. av. iv. 382. n. 81.—Tui-tirica. Raj. av. 34. n. 3. Will. orn. angl. ch. iv. § 4. n. 3. Buff. oif. vi. 281.—Petite Jafeufe. Pl. enl. n. 837.—Green Parrakeet. Brown, jam. 473. Lath. fyn. i. 320. n. 129.

Inhabits Brafil and Jamaica.—Is about the fize of a Lark.

543 163. Solove Parrot.—138. Psittacus Sosove. 138.

Is green, with a grey bill; the coverts of the wings and tail are marked with a pale yellow spot.

Pf. Sosove. Lath. ind. orn. i. 134. n. 159.—Sosové. Buff. oif. vi. 280.—Petite Perruche de Cayenne. Pl. enl. n. 456. f. 2.—Cayenne Parrakeet. Lath. syn. i. 320. n. 130.

Inhabits Guiana and Cayenne.—This species is easily tamed, and learns to speak with great distinctnose; its size is not noticed: The legs and feet are grey.

164. Tui Parrot.—139. Psittacus Tui. 139.

To green; with a black bill, orange front, and yellow orbits.

Pf. Tui. Lath. ind. orn. i. 134. n. 160.—Pfittacula brafilienfis icterocephalos. Briff. av. iv. 398. n. 90.—Tui. Raj. av. 34. n. 4. Will. orn. angl. 116. n. 4.—Tovi à tete d'or. Buff. oif. vi. 284.—Petite Perruche de S. Thomas. Pl. enl. n. 456. f. 1.—Gold-headed Parrot. Lath. fyn. i. 321. n. 131.

Inhabits Brafil.—Is about the fize of a Starling: The eyes are large and blackish. Sometimes this species is found with the front pale yellow instead of orange coloured, and having a red bill.

165. Red-tailed Parrot. - 140. Psittacus erythrochlorus. 140.

Is green, the head being crested; and having red wings and tail.

545

546

Pf. erythrochlorus. Lath. ind. orn. i. 134. n. 161.—Pfittacula criftata. Briff. av. iv. 404. n. 94.—Pfittacus erythrochlorus. Raj. av. 34. n. 4.—Crefted red-and-green Parrot. Will. orn. angl. 116. n. 3.—Crefted red-and-green Parrakeet. Lath. fyn. i. 321. n. 132.

Its place uncertain.—Is about the fize of a blackbird: The creft, which is moveable at pleasure, confists of fix feathers, three of which are confiderably longer than the rest; the irides and hind head are red.

166. Mexican Parrot .- 141. Psittacus mexicanus. 141.

Is green, with a crest on the front; the tail and the wing coverts are purple, the orbits blue, the chin yellow, and scrag red.

Pf. mexicanus. Lath. ind. orn. i. 135. n. 162. Ger. orn. ii. 21. t. 131.—Pfittacula mexicana criftata. Briff. av. iv. 405. n. 95.—Avis de cocho. Seba, muf. i. 94. t. 39. f. 2.—Crefted Mexican Parrakeet. Lath. fyn. i. 322. n. 133.

Inhabits Mexico and New-spain.—Is seven inches long: The bill is yellow; the wing quills have white edges; the thighs are bluish; the legs, seet, and claws are ash coloured.

VI. TOUCAN.-6. RAMPHASTOS. 46.

The bill is enormously large, thin, light, and empty, convex, and somewhat ridged at the top, and serrated at the edges; both mandibles being somewhat hooked at the tip: The nostrils are long, narrow, and placed behind the base of the bill: The tongue is long, narrow, and feathered at the edges: The feet are mostly climbers, having two toes placed forwards and two backwards.

This genus is entirely confined to the tropical regions of South America; it is very impatient of cold, and in its wild state slices about in little troops of eight or ten together, living mostly on fruits, particularly those of various palms; it breeds in hollows of trees, which have been deserted by Wood-Vol. I.

peckers, laying usually two eggs each brood; it is very noisy, and easily tamed. Toucan is the Brafilian name; the Latin name, which was given to the genus by Linnaeus, is derived from the form of its bill.

547

1. Green Toucan. - 1. Ramphastos viridis. 1.

Is green, with a yellow belly, and red rump.

R. viridis. Lath. ind. orn. i. 138. n. 9.—Tucana cayennensis viridis. Briss. av. iv. 123. n. 8. t. 33. f. 2.—Toucan verd de Cayenne. Buff. oif. vii. 127. Pl. enl. n. 727. 728.—Yellow-breasted Toucan. Edw. t. 329.—Green Toucan. Lath. fyn. i. 331. n. 9.

Inhabits Cayenne.—Is fourteen inches long: The under mandible is black, its base and near the nostrils being red; the upper mandible is yellow, with red sides, and having a black line along the ridge; the teeth in both are white; the naked orbits and the irides are yellow; the tail is wedge-like, its under surface having a yellowish tinge; the legs and seet are lead coloured, with black claws: In the male the head, chin, and throat are black; in the female these parts are chesnut, divided from the green colour below by a narrow black transverse bar.

548

β. Toothless Green Toucan.—R. viridis edentulus.

The bill is not ferrated at the edges.

R. glaber. Lath ind. orn. i. 138. n. 10.—Smooth-billed Toucan. Lath. fyn. fup. 67.

Inhabits with the former, and is nearly of the fame fize, measuring twelve inches long.—It is placed as a diffinct species by Mr Latham, but with a doubt that it may only be a variety: It is of a green colour, the under parts being greenish yellow; the head and neck are chesnut; the rump is red; the bill is brown on the upper, and black on the under mandible; the thighs are green.

549

2. Pavonine Toucan .- 2. Ramphastos pavoninus. 9.

Is green, interspersed with some red spots.

R. pavoninus. Lath. ind. orn. i. 137. n. 8.—Tucana mexicana viridis. Briff. av. iv. 423. n. 7.—Xochitenacatl. Fern. nov. hifp. 51. c. 187.—Hochicat. Buff. oif. vii. 125.—Pavonine Toucan. Lath. fyn. i. 331. n. 8.

Inhabits New-spain and Mexico.—This species lives near the sea-coast, and feeds on fish; it refembles the Parrot a good deal in the general appearance of the body, and is about seventeen inches long: The bill is sour inches long, and variegated with black and yellow; the legs are short, and with the feet are black. Brisson, Gmelin, and Latham all add that this bird is interspersed with peasowledged coloured, color pavoninus, and red spots; while Fernandez, who is the only author who has seen it, as quoted in Buston's Natural History of birds, mentions only the scattered red spots.

550

3. Piperine Toucan.—3. Ramphastos piperivorus. 2.

The head, neck, and breast, are black, having a narrow yellow half collar on the nape; the back, rump, and belly, are green; the tail is green, tipt with red.

R. piperivorus. Lath ind. orn. j. 138. n. 12.—Tucana cayennensis torquata. Briss. av. iv. 429.

55 I

552

553

n. 10. t. 32. f. 2.—Koulik. Buff. oif. vii. 128.—Toucan à collier de Cayenne, male. Pl. enl. n. 577.—Toucan à ventre gris, female. Pl. enl. n. 729.—Green Toucan, male. Edw. glean. t. 330.—Piperine Toucan. Lath. fyn. i. 334. n. 11.

Inhabits Cayenne.—Is thirteen inches long: The bill is black, with a red base; the orbits are naked and bluish; the temples are each marked with an orange yellow spot; the wing quills are brown, edged with green; the tail is wedge-like, of a green colour above, tipt with red, and brown underneath, tipt with chesnut, having red under coverts; the legs and feet are dark leaden colour, with black claws. In the *female* the under parts of the body are grey; the scrag is brown, and the semi-lunar half collar is pale yellow.

4. Aracari Toucan.—4. Ramphastos Aracari. 3.

Is dusky green, with the rump and ventlet red; the breast and belly are yellow, the latter having a red bar.

R. Aracari. Lath. ind. orn. i. 138. n. 11.—R. rostro nigro. Syst. nat. ed. i. 104.—Tucana brafiliensis viridis. Briss. av. iv. 426. n. 9. t. 33. f. 2.—Aracari. Marcgr. brass. 217. Raj. av. 44. n. 2. Will. orn. angl. 140. t. 22.—Aracari Toucan. Lath. syn. i. 332. n. 10.—Grigri. Buff. ois. vii. 126.—Toucan verd de Brésil. Pl. enl. n. 166.—Kleine Toucan. Wirsing. vog. t. 41.

Inhabits Brasil, Surinam, and Cayenne.—Is rather more than fixteen inches long: The back and tip of the upper mandible are black, the fides are whitish; its base near the nostrils is dilated into three lobes, having a white arched line at the root; the under mandible is black; the head, wings, and tail are black; the breast and belly are yellow and red, having a roundish black spot in the middle of the breast, and a transversely placed oblong black spot at the fore part of the belly; the rump is scarlet; the thighs are red.

5. Colfared Toucan.—5. Ramphastos torquatus. 10.

Is black above, and whitish underneath, with a green belly which is red at its posterior part; the neck is surrounded by a red collar.

R. torquatus. Lath. ind. orn. i. 137. n. 7.—Tucana mexicana torquata. Briff. av. iv. 421. n. 6.—Cochitenacatl. Fern. nov. hifp. 46.—Cochicat. Buff. oif. vii. 124.—Collared Toucan. Lath. fyn. i. 330. n. 7.

Inhabits New-spain.—This species, which measures eighteen inches long, lives on the sea-coasts, and preys on fish: The upper mandible is white, and the under mandible black; the head and neck are black, the under part of the throat being whitish with a few red spots and small black streaks; the wings and tail are black; the under tail coverts are red; the thighs are reddish purple; the legs and feet are greenish ash, with black claws.

6. Brasilian Toucan.—6. Ramphastos piscivorus. 4.

Is blackish, the temples, chin, throat, breast, and rump, being white; the ventlet, and abar on the belly, being red.

R. piscivorus. Lath. ind. orn. i. 136. n. 4.—Tucana brasiliensis gutture albo. Briss. av. iv. 413.

555

556

n. 3.—Picus americanus. Hern. mex. 697.—Xochitenacatl tertia. Raj. av. 178. n. 6.—Toucan à gorge blanche. Pl. enl. n. 262.—Toucan, Brafilian Pye. Edw. av. ii. t. 64. Bancr. guian. 163.—Brafilian Toucan. Lath. fyn. i. 327. n. 4.

Inhabits South America.—Is twenty-one inches long: The bill is yellow, having a fcarlet fpot at the tip, and the under mandible is blue; the head, back, belly, wings, tail, and thighs are black; the legs and feet are blue.

7. Red-beaked Toucan.—7. Ramphastos erythrorbynchos. 11.

Is blackish, the cheeks, chin, and throat, being white; the upper tail coverts are sulphur yellow; the under tail coverts, and a semilunar mark on the breast, are red.

R. erythrorhynchos. Lath. ind. orn. i. 136. n. 5.—Tucana cayennenfis, gutture albo. Briff. av. iv. 416. n. 4. t. 31. f. 2.—Red-beaked Toucan. Edw. glean. t. 238. Lath. fyn. i. 328. n. 5.—Groffer Toucan. Wirfing. vog. t. 42.

Inhabits South America.—Is of the fame fize with the preceding, of which in all probability it is merely a variety: The base and ridge of the bill are yellow, the tip of the upper mandible and under part of the lower being red; the nostrils are edged with black; the orbits are bluish; the legs and seet are leaden coloured, with black claws.

8. Yellow-breafted Toucan. - 8. Ramphastos Tucanus. 5.

Is blackish; the rump, the ventlet, and a bar on the belly, being yellow.

R. Tucanus. Lath. ind. orn. i. 136. n. 3. Borowsk, nat. ii. 97. n. 1. t. 6.—R. rostro rubro. Syst. nat. ed. i. 103.—Tucana. Marcgr. bras. 217.—Tucana brasiliensis gutture luteo. Briss. av. iv. 419. n. 5. t. 32. f. 1.—Toucan surinamensis. Pet. gaz. t. 44. f. 13.—Toucan à gorge jaune. Bust. ois. vii. 119. Pl. enl. n. 307.—Yellow-breasted Toucan. Edw. glean. t. 329. Lath. syn. i. 326. n. 3.

Inhabits South America.—Is nineteen inches long: The cheeks, chin, and fcrag are orange; the bar on the belly and the ventlet are yellow with a reddish tinge; the rump is fulphur yellow; the bill is black, with the base grey; the legs, feet, and claws are lead coloured.

9. Red-bellied Toucan.—9. Ramphassos picatus. 6.

Is blackish, with a red belly and ventlet, yellow breast, black rump, and the tail quills are tipt with red.

R. picatus. Lath. ind. orn. i. 137. n. 6.—R. rostro rubro apice nigro. Syst. nat. ed. i. 103.—Tucana. Brist. av. iv. 408. n. 1.—Toucan à ventre rouge. Buff. ois. vii. 122. Preacher Toucan. Lath. syn. i. 329. n. 6.—Toucan, or Brasilian Pye. Albin, av. ii. t. 25. Will. orn. angl. 128. t. 20.—Pica brasiliensis. Gesn. av. 800. Aldr. orn. i. 801. Raj. av. 44. n. 1.—Nasutus simpliciter. Klein, av. 38. n. 1.

Inhabits Guiana and Brafil.—Is fomewhat more than twenty inches long: The bill is greenish yellow, and reddish at the tip; the tip of the tail is dotted with red.

Toucan.

ULI

PIES.

557

10. Yellow-throated Toucan.—10. Ramphastos dicolorus. 7.

Is blackish; the breast, belly, rump, and ventlet, being red, and the chin yellow.

R. dicolorus. Lath. ind. orn. i. 135. n. 2.—Toucana cayennensis gutture luteo. Briss. av. iv. 411. n. 2. t. 31. f. 1.—Toucan à gorge jaune. Buff. oif. vii. 118.—Toucan à gorge jaune de Cayenne. Pl. enl. n. 269.—Yellow-throated Toucan. Lath. fyn. i. 325. n. 2.

Inhabits Cayenne.—Is feventeen inches long: The bill is olive yellow, the base being black, and the edges red; the cheeks are fulphur yellow; the chin and throat are orange, edged with pale yellow.

558

11. White-throated Toucan.—11. Ramphastos Toco. 12.

Is blackish; the chin, throat, and rump, being white; the orbits, the ventlet, and a fmall circle on the breast, are red.

R. Toco. Lath. ind. orn. i. 135. n. 1.—Toco. Buff. oif. vii. 117. Pl. enl. n. 82. Lath. fyn. i. 325. n. 1. t. 9.

Inhabits Cayenne.—Is nine or ten inches long, exclusively of the bill, which measures seven inches and a half in length; the bill is reddiffy yellow, with the base black, and the upper mandible has a black tip.

559

12. Yellow Toucan.—12. Ramphastos luteus. 13.

Is yellowish white, having two black streaks down each side of the neck.

R. luteus. Lath. ind. orn. i. 139. n. 13. — Tucana lutea. Briff. av. iv. 432. n. 11. — Xochitenacatl alia. Nieremb. hift. nat. 207. Jonft. av. 119. Will. orn. angl. 386.—Aracari à bec noir. Buff. oif. vii. 130.—Black billed Toucan. Lath. fyn. i. 335. n. 12.

Inhabits New-spain .- Is about the fize of a pigeon: The bill is black, the irides are yellow; the legs and feet are brown, with yellowish claws.

560

13 Blue Toucan.—13. Ramphostos caeruleus. 14.

Is blue, variegated with ash colour; the bill being longer than the body.

R. caeruleus. Lath. ind. orn. i. 139. n. 14.—Tucana caerulea. Briff. av. iv. 433. n. 12.—Aracari bleu. Buff. vii. 131.-Altera Xochitenacatl. Fernand. nov. hifp. 47. Nieremb. hift. nat. 209. Jonst. av. 126. 157. t. 56.—Blue Toucan. Lath. syn. i. 335. n. 13.

Inhabits New-spain.—This species, which is about the fize of a pigeon, lives on the sea-coasts: The bill is yellow on the upper, and reddish yellow on the lower mandible; the eyes are black, with tawny or reddish yellow irides.

561

14. Doubtful Toucan.—14 Ramphastos dubius. 15.

The throat is blue. Lath. ind. orn. i. 139. n. 15.

Blue-throated Toucan. Lath. fyn. i. 336. n. 14.

15. White Toucan.—15. Ramphastos albus. 16.

Is entirely white. Lath. fyn. i. 336. n. 15.

These two last mentioned are very impersectly known or described, and are introduced by Dr Gmelin on the authority of Mr Latham, who has omitted the White species in his Index ornithologicus.

VII. MOTMOT.-MOMOTUS.

The bill is strong, slightly incurvated, and serrated at the edges: The nostrils are covered with feathers: The tongue is feathered: The tail is wedge-like: The feet are formed for walking; having three toes before, which are united almost their whole length, but not webbed, and one behind.

This genus is included both by Linnaeus and Dr Gmelin in the former, as a species of Toucan; but it differs very effentially from that tribe, in the structure of the feet, in the less disproportioned size of the bill, and in its general manners and way of life; it agrees however in the structure of the tongue, and in the bill being serrated. These remarkable differences have not escaped the attention of Dr Gmelin, who expresses a doubt that this ought to be considered as a distinct genus, and, on the very respectable authority of Mr Pennant and Mr Latham, it is here placed as such. The name, Motmot, is adopted by Mr Pennant from Fernandez.—T.

563

1. Brafilian Motmot .- Momotus brafiliensis.

Is green, with a bluish green front, violet hind head, and black crown. Lath. ind. orn. i. 140. n. 1.

Ramphaftos Momota. Syft. nat. ed. Gm. 357. n. 8. Borowsk. nat. ii. 98. n. 4.—Momotus. Briss. av. iv. 465. t. 35. f. 3.—Momot. Will. orn. angl. 386. t. 24. Raj. av. 164.—Momot, or Houtou. Buff. oif. vi. 430. t. 20.—Momot du Bresil. Pl. enl. n. 370.—Brasilian Motmot. Lath. syn. i. 338. t. 10.—Guira Guainumbi. Marcgr. brass. 193.—Brasilian faw-billed Roller. Edw. glean. t. 328.

Inhabits Brasil.—This species is about the fize of a Blackbird in the body, but measures eighteen inches long, owing to the great length of the two middle tail quills; it lives in a solitary manner in the most sequestered parts of the forest, building a nest of dried grass on the ground, or in holes which have been deserted by Armadillos, laying two eggs each brood; it feeds on insects, and when in confinement it eats raw sless, which it tears into small pieces and macerates in water; when taken it strikes violently with its bill; the voice is hoarse, tremulous, and weak. The general colour is a splendid olive green above, and rusty on the lower parts of the body, a few of the feathers on the breast being black with blue edges; the head is rather large in proportion, being black on the crown of the head, furrounded with blue; the corners of the mouth are garnished with longish moveable whiskers; the wing quills are blue; the tail is wedge-like and near twelve inches long, its two middle quills being much longer than the rest, and in some individuals these want webs for about two inches on each side

near the ends, which are webbed, and of an oval shape; the bill is of a moderate size, about two inches long, of a blackish colour, its base being slesh coloured; the legs and feet are black, with hooked claws.

564

565

B. Variegated Brasilian Motmot .- M. brasiliensis variegatus.

The plumage is variegated with green, tawny, blue, and ash colour. Lath. ind. orn. i. 140. n. 1. \(\beta\).

Momotus varius. Briff. av. iv. 469. n. 2.—Yayauquitotl. Raj. av. 167. n. 19. Will. orn. 298.—Long-tailed Bird. Will. orn. angl. 386.—Variegated Motmot. Lath. fyn. i. 340. n. 1. A.

Inhabits with the former, from which it differs chiefly in colour.

VIII. SCYTHROPS.—SCYTHROPS.

The bill is large, convex, sharp edged, channeled at the sides, and hooked at the point: The nostrils are rounded, naked, and placed at the base of the bill: The tongue is cartilaginous, and split at the point: The legs are formed for climbing, having two toes before and two behind.

This genus, of which only one species is hitherto known, holds a kind of middle rank between the Hornbill and Toucan; having a large bill, not quite so disproportioned as in the latter, and not ferrated, and wanting the horny excrescence of the former, it likewise wants the feathery tongue of the Toucan.

1. Phttaceous Scythrops.—Scythrops psittaceus.

The only known species.

Scythrops novae-hollandiae. Lath. ind. orn. i. 141. n. 1.—Pfittaceous Hornbill. Phil. bot. bay. t. p. 165.

Inhabits New-fouth-wales.—Is about the fize of a Crow, but owing to the length of the tail it measures two feet two inches long: The bill is convex, with a ridge on the back like a boat's keel, and having longitudinal furrows at the fides; its edges are smooth, and the fore part is bent downwards; its colour is pale brown, turning yellowish towards the tip; the nostrils are placed at the base of the bill, are oval, naked, and surrounded with a red wrinkled skin; the orbits are naked, and, especially above the eyes, the skin is red and wrinkly; the tongue is a third part shorter than the bill, and is split into two at the end; the head, neck, and under parts of the body are pale bluegrey; the back, wings, and tail, are ash coloured, most of the feathers having dusky blackish tips; the tail is long and wedge-like, the two middle feathers measuring eleven inches, and the outer quill on each fide little more than seven; a black bar crosses the whole near the end, and all the tips are white; the black tips of the feathers on the back and wings form several transverse bars on the wings; the wings are long, and when closed reach more than three fourths of the length of the tail; the legs are short and scaly, and, with the toes and hooked claws, are black. The above name is given

to this bird by Mr Latham; we are not informed at all of its manners, either by him or the editor of Governor Phillips's voyage, but, from the meaning of the name, suppose that its voice is harsh, noisy, and importunate; perhaps it might be named Scolder in English.—T.

IX. HORNBILL .-- 7. BUCEROS. 47.

The bill is large, convex, bent downwards, sharp edged, mostly jagged or serrated outwardly, and having a large horny protuberance on the upper mandible at its base, or on the forehead: The nostrils are placed behind the base of the bill: The tongue is short and sharp pointed: The feet are formed for walking, having three toes forwards and one back toe.

This genus, with the Toucan, Motmot, and Scythrops, have all fingularly difproportioned bills, the use of which is not apparent; the Hornbill inhabits the same climates and the same kind of places in the old world that are occupied in the new by the Toucan, and so far as can be learned their modes of life are very similar.

1. Philippine Hornbill.—1. Buceros bicornis. 1.

The horny protuberance is flat, and divided at its fore part into two horns; the bill is reddish. Amoen. ae. iv. 237.

B. bicornis. Lath. ind. orn. i. 142. n. 3.—Hydrocorax philippensis. Briss. av. iv. 568. n. 2.—Rhinoceros avis prima. Will. orn. t. 17. f. 1.—Calao. Pet. gaz. 43. t. 28. f. 6. and t. 31. f. 1. Edw. av. ii. t. 281. f. D.—Philippine Hornbill. Lath. syn. i. 345. n. 3.

Inhabits the Philippine islands.—Is about the fize of a common Hen: The bill is reddish, being black at the base of the lower mandible, and measures nine inches long; the upper parts of the body are black, and the under parts white; the wing quills have each a white spot; the tail is longish, its ten middle quills being black, and the four outer quills on each side white; the legs and feet are greenish.

β. Red-billed Philippine Hornbill.—1. β. B. bicornis erythrorhynchos.

The bill is vermilion red. Lath, ind. orn. i. 143. n. 3. A.

566

567

Calao, or Cayao. Phil. trans. xxiii. 1394. Lath. fyn. i. 345, n. 3. A.

Inhabits with the former.—The belly in this variety is black; the back and rump are brown-affi; the head and neck are reddiff, and the irides are white.

This bird is worshipped by the Indians; its voice resembles the grunt of a Sow, and the bellowing of a Calf; it lives much on fruits, which are swallowed whole, and, when the pulp is digested, the stones are cast up unhurt. The size of the second variety is not mentioned.

569

5.70

2. Abysfinian Hornbill .- 2. Buceros abysfinicus. 5.

Is black: The horny protuberance has a flattened semicircular surface; the orbits, cheeks, temples, chin, and upper part of the throat, are covered with naked warty sless, of a light blue colour, growing red when irritated.

B. abyffinicus. Lath. ind. orn. i. 143. n. 4.—Calao d'Abyffinie. Buff. oif. vii. 155. Pl. enl. n. 779.—Abyffinian Hornbill. Lath. fyn. i. 347. n. 4.—Erkoom, Abba-gumba, Teir-el-naciba. Bruce, Abyff. v. t. p. 169.

Inhabits Abyffinia and Sennaar.—Is three feet ten inches long: The bill is black, with white edges; the protuberance at its base is of the same colour, its upper surface being semicircularly flattened, and somewhat projecting at the edges; about the base of the upper mandible, on each side, is a tust of bristly hairs; the naked slesh about the face and neck resembles that of a Turkey cock, like that too it is light blue and flaccid at times, and grows red and tunid when the animal is irritated, or when attending his semale in the breeding season; the general colour of the plumage is sooty black, the outer wing quills being white. This bird was first observed by the celebrated Abyssinian traveller Mr Bruce; it runs much on the ground, but when raised slies strongly and to a considerable distance; it lives chiefly on green beetles which insest the Teff plant, a species of bread corn cultivated in that country; it builds in large bushy trees, generally near churches, and has numerous broods, as far as eighteen; it has a putrid or rank smell, which has led some mistakenly to believe that it preys on carrion and dead bodies.

3. African Hornbill.—3. Buceros africanus. 6.

Is black: The protuberance is straightish and pointed.

B. africanus. Lath. ind. orn. i. 143. n. 5.—Hydrocorax africanus. Briff. av. iv. 570. n. 3.—Rhinoceros avis fecunda. Will. orn. t. 17. Muf. besler. t. 9. n. 7.—Brac, Calao d'Afrique. Buff. ois. vii. 154.—Oiseau trompette, Trompette de Brac. Labat, voy. iv. 160. t. p. 161.

Inhabits Africa.—Is about the fize of a Turkey: The bill is partly red and partly yellow, the edges of the mandibles being black; the general colour is black, and the head is flightly crefted.

4. Malabar Hornbill.—4. Buceros malabaricus. 7.

Is black above, and white underneath: The protuberance is rounded above, sharp-edged forwards, and the hinder part reaches to the crown of the head, behind the eyes.

B. malabaricus. Lath. ind. orn. i. 143. n. 6.—Calao de Malabar. Buff. oif. vii. 149. t. 8. Pleenl. n. 873? Edw. glean. t. 281. f. D.—Pied Hornbill. Lath. fyn. i. 349. n. 6. t. 11.

Inhabits India.—Is two feet and a half long, fometimes three feet; in confinement at Paris this bird eat raw flesh, rats, and small birds: The bill is dirty yellowish white, and the greater part of the protuberance or false bill, which is extremely thin, is black; the head has a pendant crest behind, and at the base of the under mandible some plaits of naked white skin; the upper parts of the body, the head, neck, and fore part of the breast are black with a slight violet and greenish tinge; the under parts are dirty white; some of the wing coverts have irregular brown edges; the outer quilt Vol. I.

feathers of the wings are white at the end; the four middle tail quills are black, all the reft being white, except only at the base, which is black; the thighs are dirty white and feathered below the knees; the legs and feet are thick, strong, scaly, and black, with long, hooked, bluntish claws.

β. Lathams Malabar Hornbill. - B. malabaricus lathami.

The two or four middle tail quills are black, all the rest being white with black bases. Lath. ind. orn. i. 143. n. 6. \(\beta \). Syn. 350.

y. Sonnerats Malabar Hornbill.—B. malabaricus sonnerati.

The tail quills are all white except the middle two, which have black bases. Lath. ind. orn. i. 144. n. 6. 7. Syn. sup. 69.

Calao de Coromandel. Sonner. voy. ii. 215. t. 121.

57I

572

573

574

These two varieties are added on the authority of Mr Latham: The first differs so slightly from the one described immediately before from Buffon as scarcely to deserve being attended to. The second variety introduced from Sonnerat might perhaps be reckoned a distinct species, as the protuberance on the bill is shaped like an egg, and the chin and all the wing quills are white.

5. Indian Hornbill.—5. Buceros Hydrocorax. 2.

The protuberance is flattened forwards, and extends in a round form to the crown of the head; the neck is furrounded by a white collar; the belly is tawny.

B. Hydrocorax. Lath. ind. orn. i. 144. n. 7.—Hydrocorax. Briff. av. iv. 556. n. 1. t. 45.—Corvus marinus. Cluf. exot. 106.—Corvus indicus. Bont. jav. 62. Will. orn. 86. t. 17. Raj. av. 40. n. 7.—Corvus torquatus. Klein, av. 58. n. 2?—Corbeau indien. Salern. orn. 91. n. 8. t. 9. f. 3. Buff. oif. iii. 41.—Calao des Moluques. Buff. oif. vii. 147. Pl. enl. n. 283.—Indian Raven. Wili. orn. angl. 126. n. 7.—Indian Hornbill. Lath. fyn. i. 351. n. 7.

Inhabits the Molucca islands.—This species is two feet four inches long; it is frequently domesticated, and is useful for destroying rats and mice; in its state of nature it feeds on Nutmegs, from which its sless a highly aromatic flavour. The protuberance on the bill is blackish ash, growing whiter backwards; the crown of the head is blackish; the sides of the head, the throat, and the wings are black; the hind head and scrag are chesnut; the back, shoulders, rump, wing coverts, and tail coverts, are brown; the breast and belly are blackish, the hinder part of the belly being yellowish; the tail quills are dirty whitish ash; the legs and feet are short and brown-grey, with black claws.

6. Rhinoceros Hornbill. - 6. Buceros Rhinoceros. 3.

The protuberance is sharp pointed, and turned upwards at its fore part.

B. Rhinoceros, Lath. ind. orn. i. 141. n. 1.—Rhinoceros avis. Bont. jav. 63. t. 64. Olear. muf. t. 15. f. 4. Worm. muf. 293. Aldr. orn. i. 84. Befler. muf. t. 20.—Corvus indicus cornutus. Raj. av. 40. n. 8.—Hydrocorax indicus. Briff. av. iv. 571. n. 4.—Calao Rhinoceros. Buff. oif. vii. 161. Pl. enl. n. 934.—Topau. Borowfk. nat. ii. 98. t. 7.—Rhinoceros bird, or Horned Indian Raven.

Will.

Will. orn. angl. 127. t. 17. Edw. glean. t. 281. f. B.—Rhinoceros Hornbill. Lath. fyn. i. 342. n. 1. fup. 69.—Great Hornbill, or Rhinoceros bird. Nat. mifc. No. xiv. t. 41.

BIRDS.

575

576

Inhabits India, Java, Sumatra, and the Philippine ifles.—This species, which measures three feet long, and is about the fize of a Turkey, preys on rats, mice, and carrion, having a most voracious appetite, and is faid to follow the hunters on purpose to feed on the offal and intestines of their game: The bill is whitish yellow, and measures ten inches long, the base of the upper mandible and upper surface of the horn or protuberance being red; the horn is eight inches long, its under surface is of the same colour with the bill, and its upper surface is marked with a longitudinal black line; the body is black, its under and posterior parts being dirty white; the tail is twelve inches long, of a dirty white colour with a broad black bar near the end; the under tail coverts are black and white; the legs, feet, and claws, are dustry grey.

7. Helmet Hornbill.—7. Buceros galeatus. 8.

Has a straightish bill, the protuberance being almost square, its fore part flat and hinder part rounded.

B. galeatus. Lath. ind. orn. i. 142. n. 2.—Calao à casque rond. Buff. ois. vii. 159. Pl. enl. n. 933.—Semenda. Aldr. orn. i. 833.—Helmet Hornbill. Edw. glean. t. 281. c. Lath. syn. i. 343... n. 2.

Inhabits Afia.—The bill is eight inches long, and of a conical form, being mostly red; the protuberance rises to a great height: It would appear that hitherto only the bill and head of this species have been seen by naturalists; in the specimen possessed by Mr Latham the bill is surrounded with black feathers at its base. Bussion supposes that this should be among the largest of the genus, from the fize of the head and bill; in the specimen belonging to the French royal cabinet the colour of the bill is a tarnished brownish red, while that delineated by Mr Edwards is vermilion red.

8. Panayan Hornbill.—8. Buceros panayensis. 9.

The protuberance is sharp edged above, and flattened laterally; the body is greenissis black above, and reddish brown underneath.

B. panayenfis. Lath. ind. orn. i. 144. n. 8.—Calao cifelé. Sonner. it. 122. t. 82. 83.—Calao de Panay. Buff. oif. vii. 145. Pl. enl. n. 780. 781.—Panayan Hornbill. Lath. fyn. i. 353. n. 8.

Inhabits the island of Panay in India.—Is about the fize of a Raven: The bill is very long, much arched, ferrated or toothed at the edges, sharp pointed, and compressed laterally; it is transversely wrinkled, and longitudinally surrowed for two-thirds of its length, the surrows being orange coloured, and the intermediate projections brown; the orbits are brown and naked, and the eyelids have stiff bristly eyelashes; the irides are whitish: In the male the head, neck, back, and wings are greenish black; in the female the head and neck are white, except a large triangular greenish black spot, on each side, extending from the base of the bill to beyond and below the eye: In both the upperpart of the breast is bright brown-red, the belly, ventlet, and thighs, being dark brown-red; the tail has ten quill feathers which are reddish yellow from the base to beyond the middle, the extreme third of their length being black; the legs and feet are lead coloured.

4 K 2

9. Manilla Hornbill.—9. Buceros manillensis. 10.

The bill is not ferrated, and has a flight protuberance; the body is blackish brown above, and dirty white beneath.

B. manillensis. Lath. ind. orn. i. 145. n. 9.—Calao de Manille. Buff. ois. vii. 144. Pl. enl. n. 891.—Manilla Hornbill. Lath. syn. i. 354. n. 9.

Inhabits Manilla, one of the Philippine islands.—Is about twenty inches long: The bill is less bent, and its tip is sharper than in the other species of this genus, and the protuberance on the bill is scarcely any thing more than a raised sharp-edged longitudinal ridge, or keel-like prominence; the head and neck are yellowish white, waved with brown, and having a black spot on each temple, which in some individuals extends down to the chin uniting with the mark on the opposite side; the tail has a reddish bar across the middle.

578 10. Tock.—10. Buceros nasutus. 4.

The bill is black, and has no protuberance; the tail quills are white at the base and tips.

B. nasutus. Lath. ind. orn. i. 145. n. 10.—Hydrocorax senegalensis melanorhynchos. Briss. av. iv. 573. n. 5. t. 46. f. 1.—Crotophaga. Forsk. faun. arab. 2. n. 4.—Tock jeune. Buss. ois. vii. 141.—Calao à bec noir. Pl. enl. n. 890.—Black-billed Hornbill. Lath. syn. i. 354. n. 10.

β. Red-billed Tock.—10. β. B. nasutus erythrorhynchos.

The bill is red. Lath. ind. orn. i. 145. n. 10. β .

580

Hydrocorax fenegalenfis erythrorhynchos. Briff. av. iv. 575. t. 46. f. 2.—Tock adulte. Buff. oif. vii. 142.—Calao à bec rouge. Pl. enl. n. 260.—Red-billed Hornbill. Lath. fyn. i. 355. n. 10. A.

Inhabits near the river Senegal, and other hot regions of Afia and Africa.—These two varieties are said by the Count de Buffon to be the same bird at different periods of life; the former, or Black-billed Tock, being the young bird, while the latter is the same bird in its adult state: In the former the plumage is grey-ash, the wing quills being black in the middle and white at both ends: In the latter it is blackish on the upper parts of the body, the wings, and the tail, the lateral tail quills having white tips; the under parts, the head, and neck being whitish: In the younger birds the bill, legs, and feet, are black, growing reddish in the older birds: In both the bill is large and bent downwards, but has no protuberance. It is about the size of a Woodpecker, being about twenty inches long; it feeds on fruits, and in consinement eats bread or almost any thing: The young bird is very stupid, easily caught, and readily becomes tame.

11. White Hornbill.—11. Buceros albus. 11.

The bill is black and very much bent downwards, having no protuberance; the body is entirely white, with black legs and feet.

B. albus. Lath. ind. orn. i. 146. n. 11.—White Toucan. Hawkefw. voy. 1. 123.—White Horn-bill. Lath. fyn. i. 357. n. 11.

Inhabits the Ladrone islands.—This species is about the size of a Goose; the neck is small and about a foot long: The only individual of this species hitherto seen, was caught at sea between the islands of Tinian and Pulo-timoen; it is very imperfectly described.

12. Wreathed Hornbill.—12. Buceros obscurus. 12.

The protuberance is rounded above, and divided into feven or eight lobes or plaits; the body is black, with white tail quills.

B. plicatus. Lath. ind. orn. i. 146. n. 12.—Indian Raven. Will. orn. angl. t. 78. Dampier's voy. iii. 165.—Wreathed Hornbill. Lath. fyn. i. 358. n. 12. fup. 70.

Inhabits the island of Ceram, and New-guinea.—Is about the fize of a Crow: The bill is bent, and measures fix or seven inches long, its edges being smooth; the protuberance on the fore-head rises about an inch: In some individuals the neck is saffron yellow.

β. Ceylon Wreathed Hornbill.—B. obscurus zeylanensis.

The protuberance has five lobes; the body is clouded with black and grey, having a black tail. Lath. ind. orn. i. 146. n. 12. s. Syn. sup. 71. § 2.

Inhabits Ceylon.—Mr Latham fuspects that this may be a young bird of the Wreathed species. The bill is yellow, having a naked blue spot at the base of the under mandible; the primary wing quills are black, with white tips; the outer tail quill on each side is half white half black; the crown of the head is black; the legs and feet are strong and bluish.

583 13. Gingi Hornbill.—Buceros ginginianus.

The bill is bent and laterally compressed, having a pointed protuberance on the fore-head; the body is grey above and white beneath. Lath. ind. orn. i. 146. n. 13. Syn. sup. 71.

Calao de Gingi. Sonner. voy. ii. 214. t. 121.

581

582

Inhabits the Carnatic.—Is two feet long: The bill from the base to about the middle, and the protuberance are black, the rest being white, and its edges are serrated; the wing quills have white tips; the lateral tail quills are black, having a brown cross bar near the end, and white tips; the middle tail quills are grey, with a black bar near the end; the cheeks have each an oval black bar under the orbits; the legs and seet are black.

584 14. Eastern Hornbill.—Buceros orientalis.

The bill is convex and ridged above, its base being protuberant; the orbits are naked, wrinkly, and ash coloured; the body, wings, and tail, are blackish. Lath. ind. orn. i. 147. n. 14.

New-holland Hornbill. Lath. fyn. fup. 72.

Inhabits New-holland.—Is fearcely fo large as a Jay: The noftrils are fituated near the base of the bill, and are open.

15. Grey Hornbill .- Buceros grifeus.

The protuberance is floping at its fore part and abrupt behind; the body is grey. Lath. ind. orn. i. 147. n. 15. Syn. fup. 72.

Inhabits New-holland.—The crown of the head is black; the bill is yellow, its base having a black spot; at the corner of each eye is a tust of bristles, and behind each eye a naked blue spot; the wing coverts are variegated with black; the wing quills have white tips.

586

16. Green-winged Hornbill.—Buceros chloropterus.

The protuberance is abrupt; the body is black, with greenish wings.

B. viridis. Lath. ind. orn. i. 147. n. 16.—Green-winged Hornbill. Lath. fyn. fup. 73.

Its place uncertain.—The bill is yellowish, having a naked bluish white spot at the base of the under mandible; the outer tail quills, the bases of the wing quills, and the belly, are white; the legs and seet are bluish. Perhaps this might be considered as a variety of the preceding species.

X. BEEF-EATER.—8. BUPHACA. 48.

The bill is strong, thick, straight, and somewhat squared; the mandibles being protuberant, chiefly at the sides; the feet are formed for walking.

The Latin name of this genus, as well as its English and French appellations, is derived from its custom of picking holes in the backs of cattle on purpose to get at the larvae of insects of the Gad-fly kind which are there deposited.

587

1. African Beef-eater .- 1. Buphaga africana. 1.

Only this species hitherto known.

B. africana. Briff. av. iv. 457. n. 1. t. 42. f. 2.—Pic-boeuf. Buff. oif. iii. 175. t. 14. Pl. enl. n. 293.—African Beef-eater. Lath. fyn. i. 359. n. 1. t. 12.

Inhabits Africa, near the Senegal.—Is about the fize of the Crefted Lark, measuring eight inches and a half long: The body is brown-grey above, with a yellowish rump, the under parts being likewise yellowish; the bill, which is not quite an inch long, is sometimes yellowish with a red tip, and sometimes entirely black; the tail is wedge-like, having twelve brown-grey quills which are narrow at the ends, the outer quills on each side being reddish on their inner webs; the legs and feet, with the claws, are brown.

XI. ANI.-9. CROTOPHAGA. 49.

The bill is compressed laterally, protuberantly ridged on the back

589

back of the upper mandible, bent, and almost oval; the upper mandible having an angular projection on its edge at each side: The nostrils are round and open.

This genus is named from its habit of feeding on certain infects: The feet in three of the species are fitted for climbing; the tongue is flattened laterally and becomes slender at the end. Mr Ray considers the first species as congeneric with Parrots.

1. Leffer Ani,-1. Crotophaga Ani. 1.

Of a blackish-violet colour, the edges of the feathers having a coppery green cast. Lath. ind. opn. i. 148. n. 1.

Crotophagus. Briff. av. iv. 177. t. 18. f. 1. Ger. orn. ii. 53. t. 190. Borowsk. nat. ii. 101. t. 8.—Crotophagus ater. Brown, jam. 474.—Monedula nigra garrula. Sloan. jam. ii. 298. t. 256. f. 1.—Ani. Marcgr. bras. 193. Will. orn. 120. Raj. av. 35. n. 10. and 185. n. 129.—Ani des savanes. Buff. oif. vi. 420.—Leffer Ani. Lath. syn. i. 360. n. 1. t. 13.—Petit bout-de-petun. Pl. enl. n. 102. f. 2.—Cacalototl. Raj. av. 168. n. 27.—Razor-billed Blackbird. Catesb. carol. app. t. 3.

Inhabits the warmer parts of America and the West India islands.—This species, which is about thirteen inches and a half long, is gregarious and builds large nests, in which sive or six females lay their eggs twice every year, each taking care of her own particular brood, and covering them carefully with leaves; the eggs are of a sea green colour, spotted at each end: It feeds on fruits, seeds, small serpents, lizards, and other reptiles, worms, insects, particularly grashoppers, and in the beginning of spring on the Acarus ricinus, a species of Tick, at that time very numerous on the backs of cattle; the cattle at this season lie down to give the Ani an opportunity of picking off the ticks. The general colour is black, with some violet shades all over the body, the feathers on the middle of the back and of the wing coverts being slightly edged with dark shining green; the tail consists of ten quills, is wedge-like, and measures more than half the whole length; the tip of the upper mandible is hooked; the nostrils are oval; the tongue is slessly and whole at the tip; the legs and feet are black.

2. Greater Ani .- 2. Crotophaga major. 3.

Of a blackish-violet colour, the feathers having green edges; the wing quills being dusky green. Lath. ind. orn. i. 148. n. 2. Syn. i. 362. n. 2.

Crotophagus major. Briff. av. iv. 180. t. 18. f. 2.—Ani des palétuviers, Bout-de-tabac, Amangoua. Buff. oif. vi. 423. t. 19. Salern. orn. 73. n. 10.—Greater Ani. Lath. fyn. i. 362. n. 2.—Grand bout-de-petun. Pl. enl. n. 102. f. 1.

Inhabits the fame countries with the former.—This species measures eighteen inches long, and is considerably larger than the former species, which it resembles very much in colour, manners, and mode of life, except that the former inhabits the woods, and this keeps chiefly to the cultivated fields, and the sides of the sea or of salt marshes: The green edges of the seathers are likewise more remarkable in this than in the former species; it is readily made tame, but both this and the former species have an unpleasant odour, and their sless is not eatable.

3. Varied Ani .- Crotophaga varia.

Is varied, with black and red. Lath. ind. orn. i. 149. n. 3.

Crotophagus varius indicus. Gerin. orn. ii. 54. t. 192.

Its place uncertain.—This species measures eleven inches long; the bill is black, bent downwards, and is weaker than in the other species of the genus; the head, throat, and breast, the larger, and the middle coverts of the wings, and the tail are black, the rest of the body being tawny red; the tail is long; the legs and feet are tawny brown. Gerini says that this bird was formerly kept at Verfailes, whence a picture done from the life was sent to Florence; it is somewhat remarkable that this circumstance should have escaped Buffon.

59I

4. Walking Ani.—3. Crotophaga ambulatoria. 2.

The feet are formed for walking.

Cr. ambulatoria. Lath. ind. orn. i. 149. n. 4. Borowsk. nat. ii. 102. n. 2.—Walking Ani. Lath. syn. i. 363. n. 3.

Inhabits Surinam.—This species resembles the Lesser Ani in every respect except the structure of its feet, having three toes forwards and one back toe, while all the other species of the genus have climbing feet; like the Lesser Ani likewise the tail has ten quill feathers. Mr Latham considers this as rather a doubtful species.

XII. WATTLET.-10. GLAUCOPIS.

The bill is arched, and bent downwards; the under mandible being shorter than the upper, and having sleshy wattles at its base: The nostrils are depressed, and almost covered by a somewhat cartilaginous membrane: The tongue is somewhat cartilaginous, its tip being split and sringed: The feet have three fore toes and only one behind, being sormed for walking.

592

1. Cinereous Wattlet.—1. Glaucopis cinerea. 1.

The only known species.

Callaeas cinerea. Lath. ind. orn. i. 149. n. 1.—Cinereous Wattle-bird. Lath. fyn. i. 364 n. 1. t. 14.

Inhabits New-zealand.—This bird is about the fize of a Jay, and measures fifteen inches long; it walks mostly on the ground, and very seldom perches on trees; it feeds on berries, infects, and even preys on small birds; the voice is whistling and humming, being not unpleasant; the flesh is excellent. The bill is black; the body is dark ash, with a black face; the tail is long, wedge-like, and confists

confifes of twelve quills; at the base of the lower mandible are two wattles on each side, the more advanced of which is blue, and the hinder are orange yellow; the irides are bright blue; the legs are long and blackifh, and the hinder claw is confiderably longer than the reft. Mr Latham, in his Index, has thought proper to change the Latin name of the genus, as given above from Dr Gmelin's edition of the Systema naturae, to Callaeas, but without affigning any reason.

XIII. CROW.-11. CORVUS. 50.

The bill is convex and sharp edged: The nostrils are covered by reversed briftly feathers: The tongue is cartilaginous, and cleft at the tip: The feet are formed for walking.

This genus is to be found in every climate; its feveral species are extremely prolific, remarkably focial and gregarious, and very clamorous; they build mostly in trees, some species forming vast associations, and lay usually fix eggs each brood; they are promifcuous feeders, eating both of animal and vegetable food. Mr Latham adds to the Linnaean character, that the bill has a finall tooth-like process on each fide near the point; the middle toe is joined to the outmost as far as the first joint,

1. Hottentot Crow.—1. Corvus hottentotlus. 1.

Is greenish black, with an equal tail, and having very long whiskers.

593

594

C. hottentottus. Lath. ind. orn. i. 156. n. 12. Borowsk. nat. ii. 103. n. 2.—Monedula capitis bonae-spei. Brist. av. ii. 33. n. 10. t. 2. f. 2. Ger. orn. ii. 36. t. 148.—Choucas moustache. Buff. oif. iii. 79.—Choucas du Cap. Pl. enl. n. 226.—Hottentot Crow. Lath. fyn. i. 380. n. 10.

Inhabits at the Cape of Good Hope.—Is eleven inches long, being about the fize of a Thrush: The whifkers, which are black and near three inches long, rife from the base of the upper mandible above the nostrils, and fimilar whiskers, but stiffer and shorter, are situated on each side at the angle of the mouth; the feathers of the fcrag, or hind part of the neck, are longer and narrower than the reft, and hang loofely.

2. Raven. - 2. Corvus Corax. 2.

Is black, gloffed with bluish on the back; the tail is roundish.

Corvus. Gefn. av. 334. Aldr. orn. i. 684. t. p. 685. Johnst. av. 38. t. 16. Raj. av. 39. n. 1. Briff. av. ii. 8. n. 1.—C. maximus. Scop. an. i. 34. n. 45.—C. Corax. Lath. ind. orn. i. 150. n. 1.— Korp. Faun. fuec. n. 85. Faun. groenl. 62. n. 38.—Corbeau. Buff. oif. iii. 13. t. 2. Pl. enl. n. 495.—Rabe. Gunth. nest. t. 71. Frisch. av. t. 63.—Raven. Brit. 2001. n. 74. Arct. zool. ii. 245. n. 134. Alb. av. ii. 19. t. 20. Lewin. brit. b. i. t. 33. Id. t. vi. f. 1. Will. orn. 121. t. 18. Ruffel, alep. 69. Lath. fyn. i. 367. n. 1. fup. 74.

Inhabits all Europe, Siberia, Kamtschatka, and North America as far fouth as New-Spain.—This is the largest species of the genus, measuring two feet two inches in length, and weighing three pounds: It feeds on carrion, birds, eggs, finall birds, and fick or weakly lambs, flicap, fifth, fhellfifh, and wild berries, and, when preffed with hunger, will even devour dried skins, and excrements; jt

*-*596

597

599

it is greedy, thieving, and clamorous, and may be taught to speak; it builds in high trees or lofty rocks, pairing in March; the semale lays five or fix bluish green eggs spotted with brown in April, these the male sits on by day and the semale in the night time. The Raven is a long liver, and has a very quick sense of smelling; its sless is eaten by the Greenlanders, who make clothes of the skins, using the wings for brushes, and forming the split quills into sishing lines. The tail is slightly bent downwards, and has a small tooth on each side near the point; the voice is a short rough croak, repeated at intervals.

β. Pied Raven.—2. β. C. Corax varius.

Has a few scattered white feathers. Lath. ind. orn. i. 150. n. 1. 8. Syn. i. 369. n. 1. A. Corvus varius. Briff. av. ii. 12. n. 1. A.—Cacalotl. Fern. nov. hisp. 48.

Inhabits Mexico.—This differs only from the foregoing by the circumstance mentioned in the character.

y. White Raven.—2. y. C. Corax albus.

Is entirely white. Lath. ind. orn. i. 151. n. 1. 7. Syn. i. 369. n. 1. B.

Corvus albus. Briff. av. ii. 12. n. 1. B. Schwenkf. av. filef. 245. Ger. orn. ii. 32. t. 141.

Inhabits Norway.

S. Northern Raven.—2. S. C. Corax borealis.

Is variegated with black and white. Lath. ind. orn. i. 151. n. 1. 8.

Corvus feroenfis. Brunn. orn. bor. 8.—Corvus borealis. Briff. av. vi. app. 33. t. 2. f. 1.

Inhabits the Feroe islands.—This variety is a little smaller than the rest, measuring only two feet long: The body is bright black, its under parts being white; the head is white, variegated with black spots; the breast is black; the wing quills are white, the outermost being edged with blackish; the tail quills are variegated with black and white.

3. White-chinned Crow.—3. Corvus clericus. 20.

Is black, having a white chin; the base of the bill is ash coloured. Mus. carls. i. t. 2. Lath. syn. i. 152. n. 4. 8.

Inhabits Sweden.—The colour on the greatest part of the body is sooty black, the head, neck, and middle of the back, being clear black, and the upper surfaces of the wing and tail quills having a violet tinge. This bird is very rare even in Sweden; Dr Gmelin does not mention its size, but suspects it may belong to the Raven species; Mr Latham ranks it as a variety of the Carrion Crow, and says it is of the same size with it.

4. Southern Crow.—4. Corvus australis. 21.

Is black, with brownish-black wings; the feathers of the chin being loose.

C. australis. Lath. ind. orn. i. 151. n. 2.—South-sea Raven. Lath. syn. i. 369. n. 2. Cook, last voy. i. 109.?

Inhabits the Friendly islands in the Pacific ocean.—Is nineteen inches long, of which the tail meafures eight: The bill is very strong at the base, and is flattened at the sides.

5. White-necked Crow.—Corvus albicollis.

Is blackish, with brownish wing coverts; having a broad semilunar white patch on the fcrag. Lath. ind. orn. i. 151. n. 3. Syn. sup. 75. § 2.

Its place uncertain, perhaps Africa.—Is almost as large as the Raven, measuring twenty inches in length: The bill is three inches and a quarter long, being ridged on the back of the upper mandible, almost like that of the Ani, having its base covered with reslected bristly feathers; the broad white semilunar patch almost covers the whole back of the neck, it grows narrower as it comes forwards, and its narrow ends almost meet before; the tail has twelve quills, and the wings reach almost to the end of the tail; the legs and feet are black, and extremely rough. Mr Latham suspects it may be a variety of the Southern Crow.

6. Carrion Crow. - 5. Corvus Corone. 3.

Is entirely black, glossed with violet-blue; the tail is rounded, its quills being pointed at the ends, Faun succ. n. 86. Scop. an. i. 35. n. 36.

C. Corone. Lath. ind. orn. i. 151. n. 4.—Cornix. Gefn. av. 320. t. 321. Aldr. orn. i. 734. t. p. 736. Raj. av. 39. n. 2. Briff. av. ii. 12. n. 2.—Corbine, Corneille noir. Buff. oif. iii. 45. t. 3. Pl. enl. n. 483.—Blaue Raage. Brunn. n. 29.—Carrion Crow. Brit. 2001. n. 75. Arct. zool. ii. 246. n. 135. Albin, av. ii. t. 21. Will. orn. angl. 122. t. 18. Lewin, brit. b. i. t. 34. Lath. fyn. i. 370. n. 3.

Inhabits Europe, Siberia, North America, the Philippines, New-guinea, New-holland, New-caledonia, and Madeira.—Is lefs than the Raven, meafuring eighteen inches long, and weighing from twenty to twenty-two ounces; it preys on carrion, and even on fmall animals, and fuch larger ones as are weak and fickly, likewife feeding on fruits, feeds, and grain, from which last circumstance it is sometimes extremely destructive in corn fields; it builds in woods, on the branches of trees, laying five or fix eggs very like those of the Raven. The whole plumage is bluish black, the female being duller in the colour.

β. Varied Carrion Crow. - 5. β. C. Corone varius.

Is varied with white in fome parts. Lath. ind. orn. i. 152. n. 4. 2.

Corvus varius. Brun. orn. bor. 8. n. 28.—Cornix varia. Briff. av. ii. 15. n. 2. A.—Bunte Kraehe, Schekige Kraehe. Frifch, av. t. 66.—Variegated Crow. Lath. fyn. i. 370. n. 3. A.

Inhabits the Feroe islands.—The throat, under part of the neck, middle of the belly, primary wing quills, and lower part of the cheeks, are white; but different individuals are variegated differently.

y. White Carrion Crow-5. y. C. Corone albus.

Is entirely white. Lath. ind. orn. i. 152. n. 4. 8.

Cornix alba. Briff. av. ii. 15. n. 2. B.—White Crow. Lath. fyn. i. 372.

Inhabits Iceland.

BIRDS.

боо

601

602

603

4 L 2

7. Rook.—6. Corvus frugilegus. 4.

Is black, with a fomewhat ash coloured front; the tail being roundish at the end. Faun. suec. n. 87. It. oel. 67.

C. frugilegus. Lath. ind. orn. i. 152. n. 5. Kram. el. 333. n. 2. Borowsk. nat. ii. 105. n. 4.—Cornix frugilega. Aldr. orn. i. 751. t. p. 753. Raj. av. 39. A. 3. Briss. av. ii. 16. n. 3.—Freux, Frayonne. Buss. ois. iii. 55. Pl. enl. n. 484.—Schwarze Kraehe. Frisch, av. t. 64.—Roka. Faun. suec. n. 87.—Rook. Brit. 2001. i. n. 76. Arct. 2001. ii. 250. n. A. Albin. av. ii. t. 22. Will. orn. 123. t. 18. Lath. syn. i. 372. n. 4. sup. 76. Lewin, brit. b. i. t. 35.

Inhabits Europe and Western Siberia.—This species, which is about eighteen inches long, and weighs nearly twenty-two ounces, is chiefly distinguished from the Carrion Crow by the following circumstances*; the ends of the tail quills are broad and rounded, instead of being sharpish; the bill is longer, straighter, more slender, weaker, and not so intensely black; the nostrils and base of the bill being naked and whitish, from being frequently thrust into the ground in search of food; the extent of the wings is rather more than in the Carrion Crow. The Rook slies abroad in large slocks, principally in the morning and evening, being more dispersed during the day in quest of food; vast numbers of them perch at night on trees, in which they build generally in large communities called Rookeries; they feed principally on worms, the larvae of insects, especially those of the beetle tribe, and likewise on grain, and other feeds and vegetables, hence they become destructive to corn, turnips, potatoes, and other crops, but there is reason to believe that all the harm they do to farmers is amply repaid by their destruction of noxious vermin; they are extremely clamorous and noisy, especially about their habitations; the eggs resemble those of the Raven; the younger birds, called Branchers, before they are thoroughly sledged are very good eating. The black colour of the Rook is mixed with a purplish shade, and the tail on part of its upper surface has a dull green tinge.

605

8. Hooded Crow .- 7. Corvus Cornix. 5.

Is dark ash coloured; with black head, chin, wings, and tail.

C. Cornix. Lath. ind. orn. i. 153. n. 7. Scop. an. i. 35. n. 37.—Cornix cinerea. Briff. av. ii. 19. n. 4. Gefn. av. 332. Aldr. orn. i. 754. t. p. 755. Raj. av. 39. A. 4.—Cornix nigra. Ger. orn. ii. 35. t. 146. 147.—Mullachia. Cett. uc. fard. 71. Zinnan. uov. 70. t. 10. f. 61.—Kraka. Faun. fuec. n. 88.—Krage. Leem. 239.—Nebel Kraehe. Frifch, av. t. 65.—Graue Krau, Krauveitl. Kram. el. 333.—Corneille mantelée. Buff. oif. iii. 61. t. 4. Pl. enl. n. 754. 755.—Royston. Crow. Alb. av. ii. t. 23. Will. orn. angl. 124. t. 77. Ruffel. alep. 69.—Hooded Crow. Brit. 2001. i. n. 77. Arct. 2001. ii. 251. B. Flor. Scot. i. 20. t. 2. Lewin, brit. b. i. t. 36. Lath. fyn. i. 374. n. 5. fup. 77.

Inhabits Europe and Afia.—Is about the fize of the Rook, measuring twenty-two inches in length: This species breeds in the northern parts of England and in Scotland, and migrates more to the southwards before winter; in Italy it breeds in the forests near the foot of the Alps and Apennines, and spreads over the plains about the month of October; it is gregarious, and feeds almost on every thing eatable, carrion, smaller quadrupeds, birds, shell-fish, frogs, snails, insects, and their larvae, and very rarely on berries, grain, and feeds; it is very unjustly proscribed in Sweden, as it cleans the fields of vast.

^{*} These are first attentively noticed by the celebrated Mr Pennant in his Arctic Zoology .- T.

vast multitudes of the larvae of various insects, which do infinite mischief by lodging under the roots of grafs and other plants. It usually fits with its face opposed to the wind; and is very readily caught, during fnow, by means of a paper fnare: The eggs are bluish green, variegated with a number of blackish-brown spots.

PIES.

606

9. Daurian Crow .- 8. Corvus dauricus. 22.

Is black, with a bluish-black crown, the scrag, throat, and belly, being white. Pall. it. iii. 694. n. 8.

C. dauricus. Lath. ind. orn. i. 154. n. 8. Georg. it. 165.—Corneille de Senegal. Buff. oif. iii. 67. Pl. enl. n. 327.—Chinese black Raven. Osb. voy. i. 377.—White-breasted Crow. Tryer, trav. 21. Kolb. cape, ii. 146. Lath. fyn. i. 376. n. 6. t. 15.

Inhabits China, Mongalia, Persia, near lake Baikal, near the Lena, the island of Jvanna (Johanna?) and Senegal.—Is rather more than a foot in length, and refembles the Jackdaw in fize and general appearance: It is gregarious, and lives on infects, and various fruits. The tail and wings have a shining greenish gloss; according to Mr Latham, the nape of the neck is hoary.

607

β. Brown-throated Daurian Crow.—8. β. C. dauricus fuscescens.

Is entirely black, the throat and scrag being brown. Lath. ind. orn. i. 154. n. 8. s.

This variety is frequently found among flocks of the former.

608

10. Caledonian Crow.—9. Corvus caledonicus. 23.

Is ash coloured, the bill, eyelids, tail, and feet, being black. Lath. ind. orn. i. 154. n. 9:-New-caledonian Crow. Lath. fyn. i. 377. n. 7.

Inhabits New-caledonia.—Is about fifteen inches long, of which the tail measures five inches; the bill is a little more than an inch in length; the irides are yellowish.

6.09

11. Jamaica Crow.—10. Corvus jamaicensis. 24.

Is entirely black.

C. jamaicenfis. Lath. ind. orn. i. 154. n. 10.—Cornix jamaicenfis. Briff. av. ii. 22. n. 5.—Corneille de Jamaique. Buff. oif. iii. 67.—Chattering Crow. Raj. av. 181. Sloan, jam. ii. 298. Lath. fyn. i. 377. n. 8.

Inhabits the mountains of Jamaica.—This species, which measures eighteen inches long, lives on berries and beetles; it is entirely black, and differs from the European Crow by its voice, which is as perpetual chatter.

610

12. Jackdaw .- 11. Corvus Monedula 6.

Is blackish-brown, with a hoary hind head; the front, wings, and tail, being black. Scop. an. 36. n. 38..

C. Monedula. Lath. ind. orn. i. 154. n. 11.—Cornix garrula. Klein, av. 59. n. 4. Id. stem. 10.

ŧ.

t. 11. f. 2. a. b.—Graculus, Monedula. Gefn. av. \$20. t. p. 521.—Monedula, Lupus. Aldr. orn. i. 770. t. p. 771. Raj. av. 40. a. 5. Briff. av. ii. 24. n. 6. Gunth. neft. t. 11. f. inf.—Choucas. Buff. oif. iii. 69. Pl. enl. n. 523.—Taccola. Cetti, uc. fard. 72.—Mullachia nera. Zinnan, uov. 71. t. 10. f. 62.—Dohle, Grave Dohle. Frifch. av. t. 67. Kram. el. 334.—Jackdaw. Brit. zool. i. n. 81. Lewin, brit. b. i. t. 37. Arct. zool. ii. 251. c. Alb. av. i. t. 14. Will. orn. 125. t. 19. Lath. fyn. i. 378. n. 9. fup. 78.

Inhabits Europe and western Siberia.—Is thirteen inches in length; the irides are white.

611 β. Collared Jackdaw.—11. β. C. Monedula torquata.

Has a white collar round the neck. Lath. ind. orn. i. 155. n. 11. 8. Syn. 379. n. 9. A.

Monedula torquata. Briss. av. ii. 27. n. 6. A.—Helvetian Daw. Charlet, ex. 75. n. 7. onom. 68. n. 7. Jonst. av. t. 16.

Inhabits Switzerland.

612 γ. White Jackdaw.—11. γ. C. Monedula candida.

Is entirely white, with a yellowish bill. Lath. ind. orn. i. 155. n. 11. 7. Syn. i. 379. n. 9. B. Monedula candida. Briff. av. ii. 27. n. 6. B. Schewenks. av. siles. 305. Rzacz. auct. pol. 396.

Inhabits Poland and Silefia.

613 S. Black Jackdaw.—11. S. C. Monedula nigra.

Is bright black, the eyes being furrounded with white dots. Lath. ind. orn. i. 155 n. 11. & Syn. i. 379. n. 9. c.

Monedula nigra. Briff. av. ii. 28. n. 7.—Choucas noir. Buff. oif. iii. 69. Pl. enl. n. 522.—Chough. Charlet. ex. et onom. 67. n. 3. Sibb. Scot. ill. ii. l. 3. p. 15.—Schwarze Dohle. Frisch, av. t. 68.

Inhabits Scotland, and other parts of Europe.

614 E. Red-billed Jackdaw.—11. E. C. Monedula erythrorhynchos.

Is full black; with red bill, legs, and feet. Lath. ind. orn. i. 155: n. 11. 6.

Monedula nigerrima. S. G. Gmel. it. iii. 365. t. 39.

Inhabits Persia.

615 ζ. White-winged Jackdaw.—11. ζ. C. Monedula leucopterus.

The wings are white, and the bill is fomewhat bent.

616 n. Hoary-headed Jackdaw. - C. Monedula leucocephalus.

Is entirely black, with the hind head hoary. Phil. trans. lvii. 347. Lath. ind. orn. i. 156. n. 11. ζ .

Inhabits near the Wolga, where it is plentiful in the woods.

619

0. Brownish Jackdaw. - 11. 0. C. Monedula fuscescens.

Is brownish, with white shoulders.

Besides these varieties, Dr Gmelin adds one having the bill formed like a pair of pincers, the two mandibles not meeting in the middle, but as that circumstance seems accidental, it is not enumerated in the foregoing lift. Jackdaws are easily tamed, and may be taught to speak; in their natural state they are gregarious and loquacious, feeding on insects, grain, and seeds; they breed in steeples, old castles, and high rocks, sometimes in hollow trees near rookeries, and sometimes even in rabbit holes; the female lays five or six eggs, which are paler, smaller, and less spotted than those of the Hooded Crow.

618 13. Jay.—12. Corvus glandarius. 7.

The wing coverts are blue, with transverse white and black lines; the body is pale rusty purple dashed with grey, and the head is crested.

C. glandarius. Scop. an. 136. n. 39. Lath. ind. orn. i. 157. n. 18.—Pica glandaria. Gefn. av. 700. Aldr. orn. i. 788. t. f. 789. Raj. av. 41. A. 2.—Garrulus. Briff. av. ii. 47. n. 1. Nozem. nederl. voy. t. 10. Schaef. el. t. 39.—Ghiandaja. Olin. ucc. 35. Cett. uc. fard. 76. Zinnan. uov. 67. t. 10. f. 58.—Geay. Buff. oif. iii. 107. t. 8. Pl. enl. n. 481.—Allonskrika, Kornskrik. Faun. succ. n. 90.—Holzschreyer, Eichenheher, Nussheher. Frisch, av. t. 55. Kram. el. 335. Gunth. nest. t. 38.—Jay. Brit. zool. i. n. 79. Arct. zool. ii. 252. E. Albin. av. i. t. 16. Will. orn. 130. t. 19. Hayes, brit. b. t. 7. Lewin, brit. b. t. 38. Lath. syn. i. 384. n. 19. sup. 79.

Inhabits Europe, and Siberia as far as the Uralian mountains.—Is thirteen inches long, and weighs fix or feven ounces; the bill is ftrong, thick, and black, measuring an inch and a quarter in length, and having a thin black tongue which is cloven at the tip; the chin is white; at each corner of the mouth is a large black spot; the fore-head is white with black streaks; the feathers of the head are very long and can be erected into a crest; the first quill feather of the wing is black, the next nine are ash coloured, their inner webs being dusky, the next fix are black, the lower surfaces of their outer webs being tinged with blue, the next two are black, and the innermost is bay tipt with black; the lesser coverts are light bay, the greater coverts are blue barred with white and black, the scapulars are black; the rump is white; the tail has twelve black quills; the legs and feet are pale brown, with large hooked claws: The nest is built on low bushes, being formed of fine fibres of tree roots; in it the semale lays five or fix dull whitish olive coloured eggs, obscurely mottled with pale brown. The voice is loud and disagreeable; when inticing the young to follow, it resembles the mewing of a cat. Jays are very docile, and may be taught to speak. In summer they are very destructive to cherries and pease, and in autumn and winter they feed on acorns; some say they likewise kill and devour small birds.

β. White Jay. — 12. β. G. glandarius albus.

Is entirely white, with reddish irides. Lath. ind. orn. i. 158. n. 18. s. Syn. i. 386. n. 19. A-

Garrulus albus. Briff. av. ii. 51. n. 1. A. Ger. orn. ii. 44. t. 162.

"The place of this variety is not mentioned.

620 14. Carthagena Crow. - 13. Corvus argyrophthalmus. 25.

Is black, with the breast blue, and the eyes silvery white; the tail being white at the tip, and the bill, legs, and feet, black. Jacquin, beyt. der voeg. 1.

Inhabits Carthagena in South America.—This species is about the fize of the Jay; it lives in the thickest parts of the woods, having a clear and not unpleasant whistling voice; it feeds on insects, fruits, and feeds, and when tamed will eat sless both raw and boiled. The outer parts of the wings are blue, and the face has a blue spot over each eye and another beneath. Mr Latham unites this and the Surinam Crow together as synonimous, notwithstanding the very great diffimilarity in their descriptions as given by Dr Gmelin.

621 15. Doubtful Crow.—14. Corvus dubius. 26.

622

623

Is rusty brown, the crown and temples being blackish; the neck and belly are yellowish, and the bill, eyes, legs, and feet, black. Jacquin, beytr. der voeg. 2.

Inhabits Carthagena in America.—A white line, rifing from the base of the bill, passes backwards through the orbits to the hind head where it joins a similar line from the other side of the head.

16. Crested Crow. - 15. Corvus cristatus. 8.

Is blue; the wing coverts being transversely streaked with black, the neck having a white collar, and the head a blue crest. Lath, ind. orn, i. 158, n. 19.

Garrulus canadenfis caeruleus. Briff. av. ii. 54. n. 2. t. 4. f. 2.—Pica glandaria caerulea. Klein, av. 61. n. 3. Robert. ic. 1676. t. 14.—Geay bleu de Canada. Buff. oif. iii. 120. Pl. enl. n. 529.—Haubenhaher. Borowsk. nat. ii. 102. t. 9. A.—Blue Jay. Arct. 200l. ii. 249. n. 138. Catesb. carol. i. t. 15. Edw. glean. t. 239. f. 1. Lath. syn. i. 386. n. 20.

Inhabits North America.—This fpecies refembles the Jay, but is much fmaller, measuring only eleven inches long; it is gregarious, and its voice is not harsh; it feeds on chesnuts, fruits, berries, feeds, and grain, being very destructive to the fields of Maize, and, when in great necessity, devours worms and small serpents; it builds in marshy places, the semale laying five or fix dull olive eggs spotted with rusty, in May. The head is surmounted by a blue crest; a black streak passes on each side from the base of the bill beyond the eyes; the cheeks, chin, and belly, are white; the breast is pale reddish, like port wine and water; the back is pale purple; the wing coverts and secondary wing quills are rich blue barred with black, the secondaries and one row of the covert feathers having white tips; the tail is long and wedge-like, being barred with blue and black, all the quills having white tips except the two middle ones; the legs and feet are black.

17. Stellers Crow .- 16. Corvus Stelleri. 27.

Is black, the head being crested; the under parts of the body, the wings, and long wedge-like tail, are blue. Lath. ind. orn. i. 158. n. 20.

Stellers Crow. Arct. zool. ii. 249. n. 139. Lath. fyn. i. 387. n. 21.

Inhabits the north-west coast of America.—Is about the fize of the Jay, measuring fifteen inches long:

long: The bill, neck, and back are black; the leffer wing coverts are dufky, the reft being rich splendid blue; the outer webs of the primary wing quills are rich blue, the inner webs being dufky; the secondaries are rich blue crossed with distant narrow black bars; the rump, belly, and breast, are dull blue; the tail is very long, wedge-like, and of a fine glossy blue colour, the middle quills being slightly barred with black.

624 18. Cayenne Crow.—17. Corvus cayanus. 9.

Of a fomewhat violet-blue colour, the under parts being white; the front and throat are black, and the tail is tipt with white.

C. cayanus. Lath. ind. orn. i. 160. n. 24.—Garrulus cayanensis. Brist. av. ii. 52. n. 2. t. 4. f. 1.—Geay de Cayenne, Blanche-coësfée. Buss. ois. iii. 118. Pl. enl. n. 373.—Cayenne Jay. Lath. syn. i. 388. n. 22.

Inhabits Cayenne.—Is thirteen inches long: The bill, legs, feet, and claws, are grey; the frontlet, cheeks, and nape of the neck, are black, the fore-head feathers being rigid and erected, and the fides of the head being each marked with three white spots; the tail is rounded and has a violet tinge.

625 19. White-eared Crow.—Corvus auritus.

Is brown ash, and somewhat crested; the frontlet and chin are black; the front and each ear are marked with a white spot; the wing quills are black, with grey edges. Lath. ind. orn. i. 160. n. 25.

Petit Geay de la Chine. Sonner. voy. ii. 188. t. 107.—White-eared Jay. Lath. fyn. fup. 83.

Inhabits China.—Is eleven inches long: The bill is black, and fcarcely bent; the irides are reddiffs yellow; the crown is bluish ash, having its feathers longish; the tail is long, rounded, and somewhat slouching; the legs are long and brownish, the back claw being very strong and much bent.

20. Purple-headed Crow.—Corvus porphyrocephalus.

Is reddish, the under parts being yellow, the head purplish, and the wing and tail quills black. Lath. fyn. sup. 83.

C. purpurafcens. Lath. ind. orn. i. 161. n. 26.-

626

627

Inhabits China.—The bill is lead coloured, the legs and feet being carnation; the tail is long.

21. Macao Crow.—Corvus macaensis.

Is greyish ash; the back, wing coverts, and ventlet, being red; the forehead, wing quills, and tail, are black; the secondary wing quills having each two white spots.

C. finensis. Lath. ind. orn. i. 161. n. 27.—Pie de Macao. Sonner. voy. ii. 187.—Macao Crow. Lath. syn. sup. 84.

Inhabits the island of Macao in China.—Is about a third smaller than the Magpie: The irides are yellowish.

22. Rufous Crow.—Corvus rufus.

Is red, the under parts being reddish white; the head and neck are brown. Lath. ind. orn. i. 161. n. 28. Syn. fup. 84.

Pie rouffe de la Chine. Sonner. voy. ii. 186. t. 106.

Inhabits China.—Is about the fize of a Blackbird: The bill, legs, and feet, are black; the greater wing coverts and the fecondary wing quills are grey; the primary wing quills and the two middle tail quills are black; the lateral tail quills are half brown half grey, with white tips.

629

23. Nutcracker.—18. Corvus Caryocatactes. 10.

Is rusty brown, with small triangular white spots, the wings and tail being black; the tail quills have white tips, those of the middle quills being worn. Scop. an. i. 37. n. 40.

C. Caryocatactes. Lath. ind. orn. i. 164. n. 39. Sepp. vog. t. 3. Ger. orn. ii. 44. t. 163.—C. cinereus. Faun. fuec. n. 75.—Caryocatactes. Gefn. av. 245. Will. orn. 90. t. 20. Raj. av. 42. Nozem. ned. vog. t. 3.—Merula faxatilis. Aldr. orn. ii. 630.—Nucifraga. Brifl. av. ii. 59. n. 1. t. 1. f. 1.—Caflè-noix. Buff. oif. iii. 122. t. 9. Pl. enl. n. 50.—Waldftarl, Steinheher. Kram. el. 334.—Tannenheher. Frifch, av. t. 56.—Nufkraehe. Schranck. nat. xviii. 67.—Nufs-haeher. Gunth. neft. t. 38.—Alloníkrika, Korníkrika. Faun. fuec. n. 90.—Nutcracker. Brit. 2001. ii. app. 625. t. 3. Arct. 2001. ii. 252. D. Lewin, brit. b. t. 40. Edw. av. t. 240. Lath. fyn. i. 400. n. 38. fup. 82.

Inhabits Europe, Ruffia, Siberia, and as far as Kamtschatka.—This species, which is very rarely found in Britain, chiefly inhabits pine forests; it feeds on infects, berries, feeds, nuts, acorns, and particularly the kernels of the pine cones; it builds in the hollows of trees, and resembles the Magpie in its manners, being thirteen inches long. The crown of the head and the tail coverts are rusty brown, like the body, but without any white spots; the ventlet is white; the feathers usually found on the nostrils of the species of this genus are frequently wanting in this species; the tongue is double pointed.

630

24. Philippine Crow.—19. Corvus Balicassus. 11.

Is greenish black, with a forked tail. Lath. ind. orn. i. 156. n. 13.

C. nigro-viridens. Briff. av. ii. 31. n. 9. t. 2. f. 1.—Monedula philippens. Ger. orn. ii. 40. t. 154.—Choucas des philippines. Buff. oif. iii. 83.—Balicasse des philippines. Pl. enl. n. 603.—Philippine Crow. Lath. syn. i. 381.

Inhabits the Philippine islands, India, and at the Cape of Good Hope.—Is about the fize of the Thrush, and the tail is near four inches long; it sings exceedingly well: The bill, legs, feet, and claws, are black. A variety of this species is sometimes found having the breast clouded with white, and the belly grey.

63 t

25. New-guinea Crow.—20. Corvus novae-guineae. 28.

Is dufky ash, the frontiet, forehead, and tail, being black; the hinder part of the back, the rump, belly, ventlet, and thighs, are white, transversely streaked with black.

C. novae-guineae. Lath. ind. orn. i. 156. n. 14.—Choucas de la nouvelle Guinée. Buff. oif. iii. Eo. Pl. enl. n. 629.—New-guinea Crow. Lath. fyn. i. 381. n. 13.

Inhabits

Inhabits New-guinea.—Is about the fize of the Jackdaw, measuring twelve inches in length; the bill is blackish; the fides of the head have each a black stroke or bar across the orbits, and another behind the eyes; the wings are blackish, the feathers being edged with white; the legs and feet are short and dusky.

632 Blue-headed New-guinea Crow. - C. novae-guineae caerulescens.

BIRDS.

633

634

635

Is ash coloured, the head and neck being bluish; the breast and belly are pale rusty. Lath. ind. orn. i. 156. n. 14. \(\beta\). Syn. sup. 78.

Inhabits with the former.—Is rather larger, measuring thirteen inches in length: The bill is black; the frontlet is black; the face on each fide has a black bar across the orbits; the irides are reddish; the legs and feet are reddish brown, and extremely wrinkly.

26. Papuan Crow.—21. Corvus papuensis. 29.

Is grey ash, with a white belly, the wing quills being blackish brown. Lath. ind. orn. i. 157. n. 15.

Choucari de la nouvelle Guinée. Buff. oif. iii. 81. Pl. enl. n. 630.—Papuan Crow. Lath. fyn. i. 381. n. 14.

Inhabits New-guinea.—Is eleven inches long: The bill is pale yellow, and near an inch long, its upper mandible being angular on the back; an oval black fpot on each fide furrounds the eyes; the legs and feet are finall and ash coloured, with short claws.

27. Bare-necked Crow.—22. Corvus nudus. 30.

Is black, the feathers on the head being downy; the hind head and part of the neck being generally bare.

Gracula nuda. Lath. ind. orn. i. 190. n. 4.—Colnud de Cayenne. Buff. oif. iii. 82. Pl. enl. n. 609.—Bare-necked Crow. Lath. fyn. i. 382. n. 15.

Inhabits Cayenne.—Is about the fize of a Jackdaw: The bill is yellowish, tipt with black, its base being broad and dirty blue, with pervious nostrils; some of the outer wing quills are slightly greyish; the legs and feet are yellow; the tail is equal at the end.

28. Bald Crow.—23. Corvus calvus. 31.

Is rusty brown, the front and crown being bald. Lath. ind. orn. i. 153. n. 6.

Choucas chauve. Buff. oif. iii. 80. Pl. enl. n. 521.—Bald Crow. Lath. fyn. i. 386. n. 16.

Inhabits Cayenne.—Is thirteen inches long: The bill is dirty black, and fomewhat bent; the colour of the under parts of the body and of the tail coverts is rather paler than on the upper parts; the legs and feet are dufky.

636 29. Pacific Crow.—24. Corvus pacificus. 32.

Is ash coloured, the under parts being bay or reddish; the hind head, scrag, wings, and tail, are black, the two last being tipt with white.

C. pacificus. Lath. ind. orn. i. 157. n. 16.—Pacific Crow. Lath. fyn. i. 383. n. 17.

Inhabits the islands in the Pacific ocean.—Is ten inches and a half long; the bill, legs, feet, and claws, are black; the front and chin are paler than the rest of the body; the two middle tail quills are entirely black.

637 30. Tropic Crow.—25. Corvus tropicus. 33.

Is shining black, with a rounded tail, the ventlet and sides of the belly being spetted with white. Lath. ind. orn. i. 157. n. 17.

Tropic Raven. Cook's last voy. iii. 119?—Tropic Crow. Lath. fyn. i. 384. n. 18.

Inhabits Owhyhee, one of the Sandwich islands.—Is twelve inches and a half long; the bill is broad at the base, and measures an inch and a half in length; the black of the upper parts of the body is very splendid, on the wings and tail it has a greenish cast, and the lower parts of the body are dull black; the legs, seet, and claws, are black.

638 31. Red-billed Crow. - 26. Corvus erythror hynchos. 34.

Is brown, with a violet tinge above, and whitish underneath; the front, under part of the throat and breast, being black; the tail is wedge-like, having a violet tinge at the base, its middle black, and tip white. Lath. ind. orn. i. 161. n. 29.

Geay à bec rouge. Buff. oif. iii. 115. Pl. enl. 622.—Red-billed Jay. Lath. fyn. i. 290. n. 24.

Inhabits China.—Is about the fize of the Jay: The front, throat, and breaft are extremely black; the hind head and forag are light grey; the primary wing quills refemble the tail quills, being tinged with violet at the roots, black in the middle, and tipt with white; the bill, legs, and feet, are red; the claws are long, hooked, and whitish, with black tips.

639 32. Chinese Crow.—27. Gorvus sinensis. 35.

Is reddish above, with a brown crown, and white eyebrows; the tail is brown and wedge-like, with a narrow transverse black band near the tip, and having a roundish dirty white spot near the tip of each quill.

Chinese Jay. Lath. syn. i. 390. n. 25.

Inhabits China.—Refembles the Jay both in fize and general manners: The bill is lead coloured, as are the legs and feet; the face has a black line croffing the orbits; the temples are each marked with a fpot of mixed white and bluish furrounded by a black circle; the chin is white; the secondary wing quills are brown.

640 33. Siberian Crow.—28. Corvus sibiricus. 36.

Is ash coloured above and rusty orange underneath, the wing quills and two middle tail quills being ash coloured, and the rest of the tail quills orange. Lath. ind. orn. i. 159. n. 22. s.

Gezy de fiberie. Buff. oif. iii. 118. Pl. enl. n. 608.—Siberian Jay. Lath. fyn. i. 391. n. 26.

Inhabits Siberia.—Is ten inches long: The bill is dusky; the front, chin, and throat, are pale ash; the crown is brownish black, and is somewhat crested; the rump is rusty orange coloured; the legs and feet are ash coloured. Mr Latham considers this species as a variety of the Rock Shrike, No. 324. which he places among the Crows, in his Index Ornithologicus.

641 34. Peruvian Crow.—29. Corvus peruvianus. 37.

Is pale green above and pale yellow underneath; having a white crown, a black narrow band down the chin and throat; and the three outer tail quills on each fide being yellow.

C. peruvianus. Lath. ind. orn. i. 161. n. 30.—Geay de Perou. Buff. oif. iii. 116. n. 2. Pl. enl. n. 625.—Peruvian Jay. Lath. fyn. i. 391. n. 27.

Inhabits Peru.—Is eleven inches and a half long: The bill, legs, and feet, are blackish; the base of the bill is surrounded by a blue line; the whole under part of the throat is silky and perfectly black; the tail is very long and wedge-like.

642 35. Yeilow-bellied Crow. - 30. Corvus flavus. 38.

Is greenish brown above and yellow underneath; the chin and eyebrows being white, and the wings and tail reddish brown.

C. flavigaster. Lath. ind. orn. i. 162. n. 31.—Garlu, Geay à ventre jaune. Buff. ois. iii. 119. Pl. enl. n. 249.—Yellow-bellied Jay. Lath. syn. i. 392. n. 28.

Inhabits Cayenne.—Is nine inches long: The bill is black; the crown of the head is marked with a longitudinal golden yellow streak; the legs and feet are short, slender, and leaden coloured, or blackish.

643 . 36. Blue Crow.—32. Corvus cyaneus. 39.

644

Is ash coloured, with a shining black crown, the wings and tail being blue; the tail quills are very long, and tipt with white. Pall. it. iii. 694. n. 7.

C. cyanus. Lath. ind. orn. i. 159. n. 21.—Blue Crow. Lath. fyn. i. 394. n. 30.

Inhabits Dauria, in the eaft of Russia.—This species is about the fize of the Rock Shrike, No. 324. and resembles the Magpie in manners and general appearance; it is clamorous, shy, and cunning; it builds in shrubs and willows; it migrates in slocks into Dauria in April, but we are not told whence it comes: The under parts of the body are rather paler than the upper; the blackness of the crown reaches to the nape of the neck; the tail is wedge-like and very long, the middle quills being tipt with white.

37. Magpie. - 33. Corvus Pica. 13.

Has a long wedge-like tail, and is varied with black and white. Scop. an. i. 38. n. 41.

C. Pica. Lath. ind. orn. i. 162. n. 32. Ger. orn. ii. 40. t. 155. Borowsk. nat. ii. 109. n. 10. Schaef. cl. t. 56.—Pica. Nozem. neder. vog. t. 2.—Pica varia, Pica caudata. Gesn. av. 695. Aldr. orn. i. 784. t. p. 785. Johnst. av. 44. t. 17. Brist. av. ii. 35. n. 1.—Pica rusticorum. Klein, av. 60.

641

1. Id. ftem. 10. t. 12. f. 1. a. b. c. Id. ov. 22. t. 8. f. 3.—Pie. Buff. oif. iii. 85. t. 7. Pl. enl. n. 488.—Magpie, Pianet, or Payet. Brit. 2001. i. 225. n. 78. D°. ill. 77. t. D. f. 2. Arct. 2001. ii. 247. n. 136. Hayes, brit. b. t. 8. Lewin, brit. b. t. 39. Albin, av. i. t. 15. Raj. av. 41. t. 1. Will. orn. angl. 127. t. 19.—Skata, Skiura, Skara. Faun. fuec. n. 92.—Aelfter. Frifch, av. t. 58. Gunth. neft. t. 53.—Gazza, Putta. Zinnan. uov. 66.

Inhabits Europe, North America, Northern Asia, Japan, and Madeira.—This common but very beautiful bird is about eighteen inches long, twenty-four in extent of wings, and weighs about nine ounces; it is crafty, restless, noify, quarrelsome, and shy, but may be tamed, and learns to imitate the human voice; it frequents towers, villages, and fields; Dr Gmelin says that it dislikes the woods, but in this he has certainly been misinformed, as it is very common in the woods of Britain, and builds in trees, covering the nest very artificially with thorns, leaving a narrow entrance; it feeds almost on any kind of vegetable or animal substance, is very destructive to gardens and orchards, and even destroys chickens: The black colour of the body and tail is most beautifully glossed with green and purple: The eggs are brownish-green, thickly interspersed with black or dusky spots.

645

β. Sooty Magpie.—C. Pica fuliginosa.

Is varied with footy-black and white, having red eyes. Muf. carlf. iii. t. 53. Lath. ind. orn. i. 163. n. 32. 8.

This variety was found, in 1781, in the parish of Padasjoki, in the province of Tavastland in Sweden: The bill, legs, and feet, are black.

646

2. Streaked Magpie. - C. Pica striata.

Is longitudinally streaked on the body with black and white. Lath. ind. orn. i. 163. n. 322

This variety is preferved in the Leverian Museum.

647

&. White Magpie.—33. β. C. Pica candida.

Is entirely white. Lath. ind. orn. i. 162. n. 32. 8.

Pica candida. Briff. av. ii. 39. n. 1. A. t. 3. f. 1.

We are not informed where this variety was found, but it is probable that both it and the two former are merely accidental.—T.

648

38. Senegal Crow. - 34. Corvus senegalensis. 14.

Is black with a violet gloss, having brown wing and tail quills edged with black, and a wedge-like tail. Lath. ind. orn. i. 163. n. 33.

C. afer. Syft. nat. ed. Gm. i. 273. n. 12.—Pica fenegalenfis. Briff. av. ii. 40. n. 2. t. 3. f. 2.—Pie du Senegal. Buff. oif. iii. 97. Pl. enl. n. 538.—Senegal Crow. Lath. fyn. i. 394. n. 31.

Inhabits Africa, near the river Senegal.—Is about the fize of the Magpie, measuring fourteen inches. long: The under parts of the body are dirty black; the bill, legs, and feet, are black; the black edges

edges of the wing and tail quills have the fame purple gloss that enlivens the plumage of the head, neck, and back.

549 39. Caribean Crow.—35. Corvus caribaeus. 40.

Is rusty above and white underneath, the neck being blue with a white collar. Lath. ind. orn. i. 163. n. 35.

Pica antillarum. Raj. av. 152.—Pica perfica aldrovandi? Raj. av. 42. n. 6. Will. orn. 90. n. 1.—Galgulus antillarum. Briff. av. ii. 80. n. 6.—Pie des Antilles. Buff. oif. iii. 101.—Perfian Pie. Will. orn. angl. 132. n. 6. § 2.—Caribbean Crow. Lath. fyn. i. 395. n. 32.

Inhabits the West India islands.—Is about the fize of the Magpie: The bill, legs, and feet are red; the head is blue, having a longitudinal white band beginning at the front along the top of the head and neck to the bottom of the scrag; this in *males* is transversely streaked with black; the rump and upper tail coverts are yellow; the tail is wedge-like, of a blue colour, and streaked with white; the wing quills are greenish blue; the lesser coverts are chesnut, the middle coverts green, and the greater coverts blue, with whitish shafts and edges: In the *female* the white line on the head has no black streaks, and the greater wing coverts are green, with white shafts and edges.

650 40. African Crow.—36. Corvus africanus. 41.

Is brown above and somewhat ash coloured underneath, the head and neck being purple, and the tail wedge-like, with a white tip. Lath. ind. orn. i. 163. n. 34. Syn. i. 396. n. 33.

Inhabits Africa.—Is twenty-two inches in length: The bill, legs, and feet, are red; the head is fomewhat crefted; the feathers on the hind head have grey tips; the outer edges of the wing quills are bluifh.

651 41. Mexican Crow.—37. Corvus mexicanus. 42.

Is entirely bluish black. Lath. ind. orn. i. 164. n. 36. Syn. i. 396. n. 34.

Pica mexicana major. Briff. av. ii. 43. n. 4.—Hoitzanatl. Raj. av. 162.—Hocifana. Buff. oif. iii. 103.—Criard. Pernett. voy. i. 185.

Inhabits Mexico and New-spain.—This species, which is about the fize of a Jackdaw, lives near the towns, and is very restless and perpetually chattering; the bill, legs, feet, and claws, are black.

652 42. Surinam Crow.—38. Corvus surinamensis. 43.

Is shining green, with a blue hind head, having a pale green spot on the scrag and two others on each side of the head, one above and the other below the orbit.

C. argyrophthalmus. Lath. ind. orn. i. 164. n. 38.—Surinam Daw. Brown, illustr. t. 10.—Surinam Crow. Lath. fyn. i. 397. n. 35. fyn. 81.

Inhabits Surinam.—Is as large as the Carrion Crow: The green colour of the body is deep, shining, and changeable; the primary wing quills are dusky, with blue tips; the tail is dusky; the bill is blackish or dusky; the legs and feet are carnation red. Mr Latham conjoins this with the Carthagena Crow, N°. 619. which seems to differ very effentially; he adds that it is easily tamed, and has a monotonous voice.

43. Zanoe Crow. -39. Corvus Zanoe. 44.

Is blackish, the head and neck being brownish, and the tail very long. Lath. ind. orn. i. 164. n. 37.

Pica mexicana minor. Briff. av. ii. 44. n. 5.—Tzanahoei. Raj. av. 162.—Zanoe. Buff. oif. iii. 106.—Leffer mexican Crow. Lath. fyn. i. 397. n. 36.

Inhabits New-fpain.—This fpecies refembles the Magpie in fize, manners, cunning, chattering, and docility: The bill, legs, and feet, are black.

654

44. Short-tailed Crow. - 40. Corvus brachyurus. 15.

Is green above and tawny underneath, the head being marked with alternate brownish orange and white bars; the tail is extremely short. Lath. ind. orn. i. 166. n. 43.

Merula viridis moluccensis. Brist. av. ii. 316. n. 56. t. 32. f. 1.—Pica indica vulgaris. Raj. av. 195. t. 1. f. 10.—Breve de Bengale. Bust. ois. iii. 414.—Merle de Bengale. Pl. enl. n. 258.—Short-tailed Crow. Lath. syn. i. 398. n. 37.

Inhabits the islands of the Indian ocean.—Is only fix or feven inches long: The bill is greyish brown; the head is black with alternate streaks of white and tawny or brownish-orange, the corners of the mouth being orange coloured, and the irides whitish; the chin, wing quills, and tail are black, the latter being tipt with green; the legs and feet are orange, with dirty red claws.

б55

β. Philippine Short-tailed Crow.—40. β. C. brachyurus philippensis.

Is green, the head and neck being black, the rump and wing coverts bluish green, and the tail black, with rose coloured under coverts. Lath. ind. orn. i. 166. n. 43. s.

Merula viridis atricapilla. Briff. av. ii. 319. n. 57. t. 32. f. 2.—Breve des Philippines. Buff. oif. iii. 413. n. 1.—Merle des Philippines. Pl. enl. n. 89.

Inhabits with the former.

656

y. Bengal Short-tailed Crow. 40. y. C. brachyurus bengalensis.

Is green above and yellowish underneath; the head and neck being black, streaked with white and orange, and the wing and tail quills black. Lath. ind. orn. i. 167. n. 43. 7.

Coturnix capenfis. Klein, av. 115. n. 2.—Breve. Buff. oif. iii. 413. n. 2.—Madras Jay. Raj. fyn. 195. n. 12. t. 1. f. 10.—Bengal Quail. Alb. av. i. t. 31.—Short-tailed Pie. Edw. glean. t. 324. Lath. fyn. i. 399. n. 37. B.

Inhabits India.—The wing quills, in this variety, are white at the base and yellow at the tips, and the tail quills have green tips.

657

8. Madagascar Short-tailed Crow.—40. S. C. brachyurus madagascariensis.

Is green above and yellowish underneath; the head being blackish brown, and the nape yellowish. Lath. ind. orn. i. 167. n. 43. 8.



