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## ANIMAL KINGDOM,

## ZOOLOGICAL SYSTEM,

of the celebrated
SIR GHARLESLINNAUS.

## C I. A S S I.

MA M M A LI A:

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

## S Y S TE MA NA T UR $\mathbb{A}$,

 AS LATELY PUBLISHED, WITH GREAT IMPROVEMENTS, By Professor G MELIN of Goettingen。
## TOGETHER WITH

 NUMEROUS ADDITIONS FROM MORE RECENT ZOOLOGICAL WRITERS, AND ILLUSTRATED WITH COPPERPLATE:
## $B y R O B E R \mathcal{T} K E R R, F \cdot R . \& A . S S, E$.

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. Ştrahan, and T. Cadelle, London


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A N D
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W. Creech, Edinburgh


## TO THE

## $\mathbf{P} \quad \mathrm{U} \quad \mathrm{B} \quad \mathrm{L} \quad \mathrm{I} \quad \mathrm{C}$

To ftudy the works of Creation with intelligence, is the exclufive privilege of man, and highly exalts his dignity above that of all other animated beings. When he looks around among created objects, he is prefented with innumerable inftances of the mot admirable contrivance in the ftructure of every being, for fulfilling the wifeft purpofes. Wifdom, Power, and Goodnefs, are manifefted in the form and destination of every natural body. How then can man be more honourably employed than in ftudying the works of his. Creator? Every means, therefore, which can facilitate the acquilitron of this vat and noble object of human knowledge, mut ertainly be conducive to promote the molt rational happiness of mankind.

For the attainment of this Philofophy of Nature, it is neceffary to poffefs forme knowledge of the objects of creation, as they are connected with each other in one vat chain of being, and as naturally arranged under greater and leffer links of mutual relation. Without an acquaintance with there, the pleafing and highly important:
fudy of Nature, as a great Science, mult, if not utterly impoffible, be extremely difficult and embarraffing. Method and arrangement, like the clew of Ariadne, ferve to lead the otherwife wandering mind through the devious mazes of Nature's labyrinth. Hence, in all ages, numerous attempts have been made to reduce the apparently endlefs confufion of natural bodies, under fuch a fyftem of arrangement, defcription, and nomenclature, as might render the acquirement of thefe general views as eafy and as familiar as poffible.

It is not neceflary to give any comparative viesy of the merits of the different fyftems which have been devifed for anfwering this ufeful purpofe; as it will be readily granted, that the palm of excellence has been almoft univerfally allowed, by the learned of every country in Europe, to the arrangement of the great Linneus, as contained in his juftly celebrated work the Syfema Naturae. To the genius and induftry of that illuftrious Naturalift, the world is indebted for the improvement of Natural Hiftory; and, to his indefatigable zeal, and example, the aftonifhing progrefs which this branch of knowledge has lately made is principally owing. If not the father of the fcience, he may juftly be held as its fecond founder; and had he, like Ariftotle, been aided by the power and riches of an Alexander, it is hardly poffible to conceive to what degree of perfection 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 fhut up from many, who might derive great pleafure and advantage, from profecuting the Audy of Nature. This tranflation, therefore, of a work of fuch general importance, and which contains fo much interefting information, will nor, it is hoped, be deemed an unprofitable employment. By this publication, a valt and fertile field of fcience will be opened to many who are now precluded from the cultivation of Natural

Hiftory, merely by the language in which its principles are delivered. To the intelligent inhabitants of the country, and to thofe who are employed, either at home or abroad, in the purfuits of commerce, navigation, or agriculture, this fcience will open a new and never failing fource of rational amufement. Every walk in the woods and fields, affording an infinite fund of agreeable relaxation from profeffional bufinefs, may thus be employed in pleafing fludy; and that time, which now too often drags heavily on with thofe who are idle, more from want of an object of rational employment than from inclination, may be filled up with a conftant and eafy inveftigation of the beauties of creation. To many perfons, this ftudy may be rendered an object of pecuniary advantage, by enabling them to felect and preferve the more valuable fpecimens, which are in great requeft, and bear a high price anong collectors of cabinets. Even the ladies may be induced, from the interefing nature of the ftudy, to prefer the purfuit of Natural Hifory to thofe frivolous publications, which have too often a hurfful, and never any beneficial tendency.

One part of this great Syftem of Nature, the arrangement, defcription, and nomenclature of vegetables, has already been moft laudably given to the public in Englifh by the Litchfield Botanical Society, and with deferved applaufe. It is now propofed to tranflate the Animal System of the fame celebrated author, which arranges, defcribes, and names the whole known Species and Varieties of Quadrupeds, Birds, Amphibious animals, Reptiles, Serpents, Fifhes, Infects, and Worms. By this means, the mere Englifh reader will be enabled to contemplate, with.facility and pleafure, the numberlefs beauties which Nature every where prefents to the attentive obferver. The defcriptions given by Limnæus are fo admirably adapted to the fubject, and are exprefled in fuch clear and diftinct. terms, that any perfon, by a very fmall degree of attention, may difcover:
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the name, place, habits, and ufes of any animal that occurs, either in cabiners or collections, or in their native haunts; and may at once afcertain whether the fpecimen prefented, be already known; or a non-defcript fpecies or variety.

Tife tranflator was particularly induced to undertake this edition, by a recommendation from very refpectable literary authority, the Authors of the Monthly Review, who, in the November number of the year 1787 , warmly advife the publication of a Zoological Synopfis in Englifh : For this purpofe, nothing can be better adapted than the work now offered to the public, at leaft fo far as the merit of the original is concerned ; of the prefent edition it becomes its editor and tranflator to fpeak more modeftly. The tranflation has been, and fhall continue to be, carried on with the utmoft poffible attention to accuracy and fidelity of verfion, and to uniformity and perfpicuity of language. He has fhunned as much as the nature of the fubject would allow, the employment of technical terms, having yet endeavoured to ufe Englifh words in fo precife and definite a manner as to ferve every ufeful purpofe of more recondite technical expreffions. It is taken from the laft edition of the Syfema Naturae of Linnæus, as lately publifhed, by the learned Profeffor Gmelin of the Univerfity of Goettingen; and has received large and numerous additions, which have been collected by the tranflator, from the writings of fuch Zoologifts, Voyagers, and Travellers, as had not fallen under the obfervation, either of the great Linnæus, or of his excellent fucceffor.

As the publication of fo very extenfive a work muft neceffarily be attended with confiderable expence, the mode of fubfcription has been adopted; and, encouraged by a highly refpectable lift of fubfcribers, the tranflator has ventured to publifh this Firy balf-volume of the Linnexan System of Zoology. He trults
greatly to the intinfic value of the original work, when it thath, by means of this tranflation, become more generally known, for fupport in carrying through his arduous undertaking. By this, as a fpecimen, the public opinion may be guided, refpecting 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 tranflated, and of the value and propriety of the numerous additions that have been made to it in this edition.

A very curfory infpection will thew at once, to fuch 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 tranflation; for, although every thing that is contained in $\operatorname{Dr} G m e l i n ' s$ edition of the Syfema Naturae be retained with the moft fcrupulous exaetnefs, and confequently a great deal more than is in any of the Linnaean editions, very large additions have been made to the prefent iranflation, from zoological writers of eminence, whofe works the laft learned editor had then no opportunity to confult. How far thefe additions may be ultimately found to have improved the work, it belongs to others to difcover; all that can, with any propriety, be faid on this fubject, is, that for the purpofes of improvement alone, they have moft feduloully been employed. Though the tranflator does not prefume to have executed his tafk in fuch a manner, as even completely to fatisfy his own ideas of a perfect zoological fyftem, he can with juftice affert, that neither labour nor expence have been withheld, to render it as free from faults, as the nature of the fubject, and the prefent flate of zoological knowledge, fo far as it has reached him, would admit. Having earnefly endeavoured to do juftice to this important branch of fcience, and faithfully to ezeciute his duty as editor and tranflator, he humbly ventures, with fome degree of confidence, to claim the patronage of the public, to a work in a great meafuse national, as it is intended to make the fyftematic part of

Natural History, through the whole Animal Kingdom, fpeak the language of Britain.

According to the reception which this fpecimen of the fubject, and of the manner of its execution, may meet with from a difcerning public, the editor will be directed whether to proceed in the publication, or reluctantly to defift; for, from the great expence which unavoidably attends the production of fo extenfive a work, it is evidently impoffible, prudently to go on, without a fubfcription that fhall be fully adequate to indemnify againft all rifk of lofs: He is, however, determined to proceed with the work, fhould a fuffcient number of fubfcribers appear, barely to defray the coft of publication, even if no views of profit fhould arife from the fuccefs of the fubfcription. At any rate, however, the clafs of Mammalia fhall be completed, that, even if the work fhould not eventually be continued, this firft part may not remain a mutilated and ufelefs. fragment.

Since the original profpectus and propofals were publifhed; in: May 1791 , fome alterations of the plan of the work have been adopted: Thefe are partly owing to the vaftly larger additional information, which has been derived from various fources, than there was any reafon at firft to have expected; and they partly proceed from the advice of feveral refpectable fublcribers, and valued literary friends. In confequence of the former it is now found, that the work will neceffarily extend, when completed, to four volumes; and, by the latter, the editor has been induced to add a feries of accurate engravings, which have been executed by an excellent artift. Thefe will be found highly ufeful, for illuftrating the fyftematic method of the celebrated Linnæus, and for conveying more perfect ideas, of feveral rare and curious animals, than any verbal defcription could poffibly communicate. As this latter addition greatly enhances.
derhances the expence of publication, it has been found neceffary, to leffen a little the originally propofed fize of the volumes, though in a degree that is far from being fufficient to compenfate, for the additional expence ariffing from the engravings; and, purpofely to diminifh, as much as poffible, the magnitude of the work, a fmaller type, and a much larger page, have been employed, than are ordinarily ufed in works of this kind.

The conditions, as now finally fettled, are thefe:-The work, as nearly as can be calculated, will confift of four volumes; to be publifhed in fucceffive half volumes, as falt as the neceffary attention to correctnefs will allow :-Each half volume will be illuftrated with feveral plates, and will be delivered in boards, to fubferibers, at half a guinea :-A general introduction, giving a view of the fubject, and of the various fources from which the additional information has been derived, together with proper title pages, will be delivered along with the laft-half volume; and copious indexes will be affixed to each clafs.

As, from the uncommon nature of the mechanical part of the work, and the yet uncertain extent of the additions, in its prefent unfinifhed ftate, it has been found impoffible to divide it properly, the fubfcribers are requefted not to bind up the feveral parts, till the whole is completed, when proper inftructions will be given for the bookbinders.

Those who are difpofed to give their countenance and patronage to this undertaking, are requefted to tranfmit their orders for fubfcription, to the editor, as foon as poffible, with directions how their copies are to be forwarded; and bookfellers, or others, in poffeffion of fubfcriptions, are entreated to do the fame, that no delay may occur in taking the neceffary fteps for carrying on the remaining parts

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

## EDinturgex \} <br> February 1792.

## P R E F A C E

## By $\mathrm{D}_{\mathrm{r}} \mathrm{G}$ M ELIN.

THE tranfcendent merits of the illuftrious Author of the following Work, and his high fame as the Reftorer and Reformer of the Science of Natural Hiftory, notwithftanding the malevolent oppofition, and many violent attacks, of numerous detractors, are fo fully known and acknowledged by the public, as to render any ftudied panegyric on him or his writings totally fuperfluous. Even the novice in Natural Hiftory muft be fully aware of the many and great advantages he derives from a Catalogue of all the known natural objects, properly arranged into Claffes, Orders, and Genera; at one glance, with fuch affiftance, he is immediately led to the particular fubject he is in quelt of ; while, on the contrary, he mult neceffarily fpend much time and labour, if he is obliged to fearch amid the almoft inextricable confufion of numerous and verbofe defcriptions which are difperfed through the voluminous writings of unfyftematic Naturalifts. Although this facility to the ftudent be confidered as the principal excellence in the labours of the great Linnaeus, by fuch as have chofen to ftigmatife him with the contemptuous title of a mere Nomenclator, it is by no means the chief merit of his wonderful work; what really conftitutes its great fupereminence, and which can be claimed by no other author, is, that it contains defcriptions of all the natural objects which were in any degree known at Vol. I. A
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the time of its publication. Thefe defcriptions were moftly derived from the accurate and perfonal obfervations of the fagacious and indefatigable author, or from the communications of his numerous difiples, who have travelled over various parts of the world in fearch of natural knowledge; fome of them, indeed, are collected either from the works of authors of acknowledged reputation, or from the private communications of refpectable correfpondents.

Human ingeruity is not expected to produce any work that is completely perfect: The field of fcience which Linnaeus had to explore is immenfe; and it was not to be fuppofed that, from fuch a furvey, the traveller, however enlightened and indufrious, fhould return with perfect delcriptions of all its parts; he is not therefore juftly to be blamed for having fometimes been miftaken, or occafionally deceived by erroneous information; neither is he too hafily to be condemned for having fometimes given imperfect characters of the genera and fpecies, or for having failed in a few inftances to diftinguith, with fufficient accuracy, the limits between the fpecies and varieties of natural productions. Indeed there are fcarcely two writers who have agreed on the diftinction between what fhould be confidered as the characters of fpecific difference, and fuch-marks of difcrimination as ought to belong only to difference of variety. We Hould not certainly condemn, as ignorant, that architect who, having laid firmly the foundation of an admirably contrived edifice, almolt of infinite magnitude and variety in the number, difpofitions, and ufes of its parts; and who, having raifed the fuperftruchure, even in his own lifetime, worthy of the wonder and admiration of the world, fhould leave to pofterity a few fimall parts yet unfinifhed, or the poffibility of fome additions, alterations, and improvements, which future wants, and increafing knowledge, might render neceffary: We certainly ought rather to admire the talents and ingenuity which could contruct the original edifice in fuch a manner as to fuf-
fer thefe neceffary addions, stacations, and improvements, without injuring its lixeny h, permanency, or fymmetry. Let it not, therefore, be $p$ fumec the immortal author wandered from the province all, a , his talents when he undertook this great work, and accomplifhed it fo far as the fate of human knowledge would allow, His greateft enemies may be filenced by this confideration, that fuch alterations, additions, and improvements, as the System of Nature has nitherto required, have been made by the difciples of that great mafter, infructed almoft for the exprefs purpofe of carrying forward and completing his arduous undertaking.

Many years * have now elapfed fince 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 fince that period, both of his difciples and others, have greatly enlarged our ftock of knowledge, by making us acquainted with numerous facts and objects before unknown, and by increafing and correcting our knowledge of fuch as were already known, though imperfectly. Hence it is evident that, when thefe are referred to their proper places in the general fytem, it muft neceffarily become, both more extended, and more comprehenfive than in its former ftate. I truft, therefore, from thefe confiderations that, in preparing and publifhing this new edition, I have been employed ufefully and agreeably to the public, as well as fatisfactorily to the bookfellers, who have long found that a new edition of the Linnaean fyftem was mof anxioufly folicited by their employers.

In this edition the original work is not materially changed in its general plan; though fome particular patts have undergone a few

[^0]alterations, perhaps immaterial in themfelves, but which the increafed ftate of our knowledge on the fubject feemed to render neceffary: It is enlarged by inferting, in their proper places, fuch genera and fpecies as have been lately difcovered: It is enriched by the addition of many accurate defcriptions of new objects, which have been obferved by later naturalifts either for the firft time, or with greater accuracy than formerly: It is augmented with additional fynonimes from the works of feveral authors, which had either not occurred to the illuftrious Linnaeus, or which have been publifhed fince his time: And, finally, the whole is corrected by means of the lateft communications from refpectable obfervers.

In the profecution of this arduous undertaking, I have felected and arranged, with great attention, all that appeared fubfervient to my views of improvement, from the great collection of books with which the royal munificence of our prefent Sovereign, the King of Britain and Elector of Hanover, has enriched the Library of the Univerfity of Goetingen; and I have been greatly affifted in this labour by the gentlemen who have the direction of that eftablithment.

If I have any merit in the execution of this work, it is chiefly to be attributed to the affiftance I have derived from the works of Schreber, Pennant, and particularly Erxleben, with regard to the clafs of Mammalia; to Latham, in the clafs 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 illuntrious coadjutor in this work: In the Mineral Kingdom, I have largely profired by the labours of Cronitedt, by thofe of his commentator Veltheim, and by the works of Gerhard, Kirwan, and Bergman.

The

The following work, therefore, contains a Syftematic Catalogue and defcription, not only of fuch objects as were known to the illuftrious Linnaeus, but likewife of all thofe which have been difcovered fince his death by the many excellent difciples * which were trained under his learned inftruction, and formed by his great example; and of every thing that has been obferved by other great naturalifts $\dagger$, who, though not favoured with the inftructions of that great mafter of this fcience, have followed his footteps, and thofe of his worthy fcliolars. Nor muft thofe writers $\ddagger$ be paffed over in filence who, by their frictures and invectives, have endeavoured to depreciate the immortal labours of our illuftrious 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 fuppofing that the prefent edition is fo perfect as not to require many corrections, amendments, and additions, from the labours of my contemporaries,

* As Falk, Solander, Dryander, Forfkahl, the two Fabricii, Muller, Brunnich, Bjerkandr, Retz, Rothboel, Schreber, Murray, Ferber, Pajkuhl, \&ec.
† Pallas, the Forfters father and fon, Jacquin, Sonnerat, Scopoli, Lefk, S. G. Gmelin, Lepechin, Georgi, Hablizl, Guldenftaedt, Koelreuter, Gaertner, Houtujn, Storr, Bowles, Molina, Seftini, Cetti, Count de Borch, Dolomieu, Fortis, Andrea, Schranck, the two Hermanns, Carofo, Gilies, Clavigero, Bancroft, Aublet, Merrem, Gowan, Gottwald, Zimmerman, Walbaum, Bloch, Goetz, Werner, Batfch, Brouffonet, Meidinger, Laicharting, Bergftraeffer, Schaller, Fuelin, Knox, Herbft, Cramer, Drury, Seppi, Stoll, Schaeffer, Harreri, Geofroy, Fourcroy, Chemnitz, Martin, Walch, Spengler, Oeder, Weifs, Weber, J. Miller, Schmiedel, Gifek, Roth, F. Hoffmann, Hedwig, Curtis, l'Heritier, Gloxin, Sage, Monnet, Burtin, Sauffure, Voigt, Bruckmann, Giraud-Soulavie, Genfan, Pine, Abildgaard, Palaffo, Peiroufe, Wulfen, Klipftein, Trebra, Dietrich, Count Rafoumowiki, and others.
$\ddagger$ Particularly the Count de Buffon, Adanfon, Camper, Laurence, Hacquet, the anco nymous author afluming the name of Medicus, and others.
temporaries, and from the obfervations of my fucceffors in the pleafing employment of cultivating the fcience of Natural Hifory; for it mult be evident to fuch as have maturely confidered its particular parts and divifions, that our fcience is ftill far removed from a ftate of perfection. The difficulty of inveftigating permanently diftinctive marks for difcriminating natural bodies from each other, muft be evident to every inquirer into the fubject: One great caufe of this difficulty arifes from the luxuriant variety which, as regulated or induced by various circumftances, nature has employed in giving colours to animals; thefe fuffer variations from the feparate or concurrent effects of many caufes; fuch as, whether the animals happen to be in a wild or domeftick ftate, or varied by the intermixture of nearly allied kinds, producing what are called bybrid races, or altered by the influence of different climates. At the fame time, it is well known, in diftinguifhing the fpecies of many kinds of animals, particularly Birds, that there are no other marks of difcrimination to be found except what are derived from difference of colour; while it unfortunately happens that the fame fpecies 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 flages of their life; in the different fexes; as they happen to feed on different foods; owing to the particular climates which they inhabit; and from various other circumftances. It is likewife obvious that many animals and vegetables, efpecially of marine production, have not hitherto been accurately obferved through all their changes of age and fex; or have only been defcribed or pictured from dead fpecimens, either dried, or fuffed, or preferved in fpirits, or falted, or diftorted and even maimed by various means, either accidental, or intentionally, for the purpofes of deceit; this laft is moft evident in fhells, which are frequently rendered colourlefs, or are otherwife altered from their natural appearance.

While this edition was at prefs, fome information has been obtained, by which it might have been amended in fome inftances, and augmented in others. Thus, Camper, the greateft comparative anatomift of the age, having lately an opportunity to diffect the Siren *, has difcovered that, on each fide of the head, it is furnifhed with three true gills, feparated from each other by membranes having tooth like appendages; that the mouth is armed with Arong and firmly planted teeth; that the heart has only one ventricle; and that the abdomen is filled with very long and capacious inteftines: From all thefe circumftances, he concludes that this animal ought to be confidered as a firh of the order Branchoftegi; while in other refpects it is more nearly allied to the genus Murena, of the order Apodes; although it differs materially from the other fpecies of that genus, by having only three notched bones in the gills, and from the pectoral fins being each divided into four finger-like appendages.

Two apparently new fpecies of filhes, frequenting the fhores of the ocean near Bahus, have lately been difcovered, and defcribed in the Stockholm Tranfactions, Vol. xii. 1ft quarter, No. 9. One of thefe, which was found at Khuedefholm, is by Ruthenfparr, named Euprafes; it is a fpecies of Gobius, about an inch long, and fpotted with black, having a diftinct black fpot on each fide at the bafe of the tail; the fecond dorfal fin has eight pointed, and eleven blunt rays; the firf dorfal fin feven rays; the pectoral fins fifteen rays each; the ventral fins, which are united, have eight rays; the anal fin eight rays; and the tail twelve: The other, which was found at Kyrkefund, is a fpecies of Cottus, named Bubalis; it is brown on the back, and has a white belly; it is fnaller than the Cotus fcorpius, or feather-lafher; has a rough thorny head provided with two horns;

[^1]the membrane covering the gilis has fix rays; the firf dorfal fin eight ; the fecond dorfal thirteen; the pectoral fins fifteen each; the ventrals four each; the anal eight; and the tail ten rays.

A new fpecies of Ape has likewife been lately difcovered, and of which a particular defcription may feeedily be expected from the pen of the celebrated Daubenton; this animal is faid to refemble mankind more nearly than any formerly known fpecies, and has received the name of Simia nafalis, from the elegant figure of its nofe.
 CELSISSIMO ILLUSTRISSIMOQUE

## C O M I T I

## D．no C A R．G．T E S．SIN，

REGISREGNIQue SUIOGOTHICISENATORI， REGI开CANCELLARI压PRSIDI， AD AULAM REGIARUM CELSITUDINUM SUPREMOMARESCHALLO，
educationi seren．princ．gustaviprefecto， CANCELLARIO ACADEMIE AboEnSIS，
ordinis s．⿸尸匕 r．IE maj．seraph．EQUiti Aurato et commendatori， equiti aurato de aquila nigra，nec non omnium S．IE R．座 MAJ．SUECiCef ordinum Cancellario，

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S A C R \quad U M \text {. }
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CCum quivis auctor fperet fe apud pofteros gratiam habere，et poffe fecum duratura nomina educere，Auctori meae fortunae Libellum uiltimo nunc offero．
Ille me，peregrinum in patria，reducem excepit；
Ille mihi ftipendium ab ordinibus Regni expetiit；
Ille mihi fpartam Medici claffici procuravit，
Ille mihi Munus，quo fungor，conciliavit；
Ille mihi Titulum，quo diftinguor，paravit；
Ille me ad Sereniffimos Reges introduxit；
Ille me cufo Numifmate pofteritati commendavit；
Ille meas errare boves，ut cernis，et ipfum
ludere quae vellem calamo permijit agrefti；
quare
cana prius gelido defint abfinthia ponto， quam noftro illius labatur pectore vultus．

## TANTI M ECENATIS

Upfalix 1766， d．24．Maii．

C．a LINNé．
Cultor devotiffimus，

Vol．I． B

## OLORD,

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

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

## L I N N $\quad$ I A N

## I N T R O D U C T I O N.

MAN, when he enters on the theatre of this world, naturally inquires, Who he is; whence he comes; whether he is bound; for what purpofe he exifts; and, by what bounteous means he is preferved? He finds himfelf de-* fcended from the anceftry of creation; he looks towards the enjoyment of a bleffed immortality; he fhould employ himfelf while here, in contemplating the wonders of Nature, and ought, in humble gratitude, to acknowledge the continually fupporting arm of Providence. Curiofity is natural to man, in common with the reft of animals: Thefe feaft, and annufe themfelves; they engender, take reft when weary, and provide convenient habitations according to their kinds; they ftudy the prefervation and fupport of their young, and exert their talents in providing for their own fafety; they enjoy the faculties of the bodily fenfes, and are capable of feveral mental perceptions. But Man, more noble in his nature, and far fuperior to all other animals in the faculties of the mind, is poffeffed of infinitely greater capacity for obferving and inquiring into thofe things which lie within the fphere of bis intelligence; from thefe he is enabled to draw much jufter inferences, through the powers of reafon; and his exclufive and ineftimable privilege is, that from all thefe he is led humbly to admire the infinite perfection which is cvery where difcoverable in the works of the allwife Creator.

How defpicable a being were man, did he not raife his thoughts above thofe things which are merely human! Wherefore fhould be rejoice at being made one among living creatures? Not, furely, that he fhould gorge himfelf with food, on purpofe to cram this body which is about to perifh. Affuredly man was not placed in this lower world that he hould forget the end of his creation, and be unmindful of his nobler expectations. This is true Wifdom, that a man fhould confider the ends and pupofes of all things; and I am convinced that many might have poffeffed this wifdom, had they not, by being puffed up with the pride of their poor attainments, vainly confidered themfelves as wife already.
"The end of creation is, that God may be glorified in bis works by Man "alone."

Hence it becomes of the greateft importance that we fhould be acquainted with the works of Nature, than which no fudy can poffibly be more noble, neither can any thing exift more interefing to the human mind; for, while many things remain concealed for future inveftigation, that which at prefent, by its grandure, occupies our attention is more to be efteemed for its intrinfic worth, than on account of any recompenfe, however large, which may accrue to us from the ftudy. Though a very large and magnificent portion of the wonderful works of Nature is laid open to our views, a mucli greäter ftill 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 exifence; but of thofe which may exift without our knowledge we can have no conception. How many things are there of which we have acquired our firl knowledge in this age, and even within a few years? and a fill larger portion of fcience, of which we are now entirely ignorant, will belong to our fucceffors. A vaft field of inquiry is referved for future ages, when even the remembrance of this paffing generation fhall be entirely obliterated; and the time will come when the induftry and experience of thofe who are to follow us fhall have made many difcoveries 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 fill remain only
in the porch of Nature's temple; for the holy mytteries are not indiferiminately revealed to all her votaries; they are concealed in the facred receffes of the cell, or interior chamber, where truth lies veiled, and is only to be attained by patient perfeverance. "If temperate youth, mindful of his Creator, would " follow thefe refearches, if thefe noble views were inculcated by the aged " and liftened to by the young in years, fcarce even then flould we reach the " depth where truth lies buried, which we now, with carelefs ftudy, fearch "for on the furface *."-__" It is certainly of great importance to penetrate " into the hidden receffes of Nature, and, not remaining contented with out" ward appearances, to dive into the facred mytteries of the divine opera" tions $\uparrow$."

Influenced by thefe confiderations, and eager to clear the way for difcovering her fecret operations, I have dared to enter the almof impenetrable foreft of Nature, not difmayed by the thorny brakes with which it is environed: Thefe I have carefully avoided, fo far as was practicable or proper; though I have learned by experience, that no degree of circumfpection can preferve even the greateft diligence from error and miftake. I have therefore fubmitted with patience to the fcoffs of the ignorant and the malicious, who have either contemned the objects, or envied the fuccefs, of my laborious purfuits; defpifing thofe grinning apes and chattering baboons whom I have encountered in my journcy, with perfevering 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 fuccefs which the greatnefs of the fubject deferves, and my attachment to the fcience of Nature has caufed me eagerly to defire, I yet have reafon, with the Pfalmift, devoutly to exclaim,

> OLORD!
> Howe great are thy works! A brutifh man knoweth them not, Neither doth the fool underfand them.

## LIST OF THE SEVERAL EDITIONS OF THE SYSTEMA NATUR 雨.

1. Leyden, 1735. Imperial folio, conffifing of 12 pages; publifhed under the infpection 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. Otavo, 30 pages. Revifed by myfelf, and with the addition of the nomenclature and characters of animals.
3. Hall, 1740 . Oblong quarto, 70 pages. Publifhed by J. J. Langen. The fame as No. r. with the addition of a German tranflation.
4. Paris, 174 . Octavo, 180 pages, and I plate. Publifhed by B. Juffieu. The fame as No. 2 . with the addition of Frencl names.
5. Hall, 1747. Octavo, 88 pages. Publihhed by M. G. Agnethler. The fame as No. 2. with the German names added.
6. Stochholm, 1748 . Octavo, $23^{2}$ pages, and 8 plates. Augmented by myfelf with the addition of the effential characters of vegetables, and the fyecies of animals and minerals.
7. Leipfig, 1748 . Octavo, 232 pages, and 8 plates. Publifhed by the bookfellers. The fame as No. 6. with the addition of German names.
8. Stockholm, 1753. Octavo, $13^{6}$ pages. The vegetables edited by J. J. Haartman; and the mineral kingdom, in octavo, by H. Moller.
9. Leyden, 175 б́ . Ottavo, 226 pages. Publifhed by Gronovius. The fame as No. 6. with fome very fmall additions refpecting birds and fifhes.
10. Stockholm, 1758. Octavo. Publifhed, with very large additions, by myfelf.
11. Leipfig, 1752 . O\&tavo. A faulty pirated $\varepsilon$ edition, with no improvements.
12. Stockholm *. In this edition, publifhed by myfflf, are inferted,

All the fpecies of animals which have come to my knowledge, with their differential characters, fynonimous terms, places, and trivial names; the whole Method and Arrangement of the Animal Kingdom being improved in confequence of more extenfive obfervation.

The clafs of Fithes is firft arranged in a new method, taken from the rays of the fins.
The charafters and difierences of Plants are improved and amended.
The fpecies of Minerals are augmented with additional obfervations and trivial names.
'To the whole is prefixed new obfervations on the Kingdoms of Nature, with an introduciory difcourfe concerning Nature $\dagger$.

* Therc is no date given of this edition, which is Myled his ultima penultimaque editio -T.
+ In this lif may be added, ${ }^{13}$. Leiplig 1738. Publithed by Profeffor Gmelin, with very large im. provements, derived from all the Zoolngical writers and travellers fince 1706 ; from which edition this tranfation is taken, with feveral additions from fources that have not occurred to the learned Profeflor, which will be noticed in their proper places.-T.

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

1. The Mufeum of King Adolphus Frederic: The firtt volume of a defcriptive catalogue of which was publifhed, in folio, at Stockholm, 754 ; and a profpectus of the fecond volume, in octavo, at the fame place in 1764. Both volumes are rich in exotic animals.
2. The Mufeum of Queen Louifa Ulrica: Publifhed, in ostavo, at Stockholm, 1764 ; very rich in fhells and infects.
3. The Mufeum of Count Teffin; Publifhed, in folio, at Stockholm, 1753; rich in minerals and fheils.
4. The Mufeum of C. de Geer; rich in amphibious animals, infects, and other rare productions of nature.
5. The Mufeum of the Academy at Upfal; ftored with animals collected from every part of the world.
6. The Mufeum of the Academy of Sciences of Stockholin; containing many fine natural productions.

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

Lapland, in ${ }^{1} 73^{2}$. Unpubifhed.
Dalekarlia, in 1784. Unpublifhed.
Oeland, in 1741. Publihed, in Swedifh, at Stockholm in 1745, octavo.
Gothland, in 174 1. Publifhed along with the preceding.
Weftgothland, in 1746. Publifhed, in Swedifh, at Stockholm in 1747, octavo.
Scania, in 1749. Publifhed in Swedifh, at Stockholm in $175^{1}$, octavo.

With the fame views I publifhed the Fauna Suecica at Stockholm in 1746, which was republifhed, with large additions, in 1761, both in octavo. And I have written on the fame fubjects in the Amoenitates Academicae, fix volumes octavo; publifhed at Stockholm in $1749-1763$, the 7 th vol. in 1769 , and the 8 th and 9 th volumes, publifhed under the infpection of Mr Schreber at Erlang, in $1785^{*}$.

I have likewife employed the information received from the following fcientific journeys, undertaken by my former pupils.
C. Ternfroem, into Afia in 1745 : He died at Pulocondore.
P. Kalm, through Penfylvania and Canada, $17+7$.

His journey in N. America was publifhed, in Swedihh, at Stockholm, 1753-1760, in 3 vols. octavo.
L. Moutinus, into Lula Lapmark in 1749.
F. Hafelquif, through Egypt and Paleftine in 1749.

His journey through Paleftine was publifhed, in Swedith, at Stockholm, in 1757, octavo.
O.

* This latter circumflance mult neceffarily be an addition to the Linnæan enumeration by Dr Gmez lin.-T.
O. Torenitus, to Malabar and Surat in 1750 .
P. Obeck, to China and Java in 175 c .
- His journey to the Eaft Indies was publifhed, in Swedifh, at Stockhrolm; 1757 , oftavo.
P. Logflingius, to Spain and America in 175 :

His journey through Spain was publifhed, in Swedifh, at Stockholm in 1758 , octavo.
P. F. Bergius, to the Ifle of Gothland in 1752.
A. Kaekler, into Italy and Apulia in 1752.
D. Solander, through Piten and Tornao Lapland in 1753.
D. Rolander, to Surinam and St Euftatius in $1755^{\circ}$
A. R. Martin, to Spitfbergen in $175^{8}$.
C. Alfroemer, through the fouth of Europe in 1760.
J. Falk, to Gothland in 1760 .

The purpofe of this work will be fully accomplifhed if it fhould hence forwards induce travellers, and curious inquirers, to examine carefully after known facts in natural hiftory; to ftudy fuch cabinets of natural hiftory as are acceflible; and to infert all new and not infignificant facts in the journals or tranfactions of their country: By thefe means the fcience of Nature will more readily be advanced, and vulgar errors be expofed; the generic and trivial names will be rendered more fixed; the foundations of economy, derived from this fcience, will be eftablifhed; and the elements of a true Theology will be formed.

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

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

Ursal, 1766.
THE

## EMPIREOFNATURE.

AWAKLNED, as if from a dream of ignorance, I have feen darkly, as he paffed, the Eternal, Infinite, Omnifcient, Almighty God, and am amazed! I have read of him in fome traces of his wondrous works, the fmalleft of which, though comparatively infignificant, even to a degree of nothingnefs, evinces the moft incomprehenfible perfection of Power and Wifdom. I have obferved that the animal world depends for exiftence on the vegetable kingdom, that the vegetables draw their fuftenance fiom terreftrial matter, and that this laft originates from the Earth. The world moves in an undifurbed orbit round the Sun, from which it is fupplied with genial heat, the fountain of life: The Sun itfelf revolves round its axis, accompanied by the planets; and the whole fyftems on fyftems of the flars, in inconceivable valtnefs of number and dimenfions, fulpended on nothing, all move through free fpace, by the mediation of a force derived from " the great firf Mover; the Being of Beings; the Caufe of all " Caufes; the Preferver and Governor of the Univerle; the Lord and Architect of "6 this vaft mundane fyftem *."-" Should we to this incomprehenfible power give the " nanue of Fate, we fhall not err, for on this every thing that is depends: Shall we "c 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 Univerfe accomplifhes all " its operations $t$."-"All is fenfe, all eye, all ear, all mind, all foul; every thing is " in $H_{1 m}$, and $\mathrm{He}_{\mathrm{E}}$ in all things. Beyond this, even the conjectures of fancy are be" wildered in their attempts to inveftigate $\ddagger$."-" The Deity is equally eternal and " beyond conception infinite, neither begotten nor created $\|$."-" HE, withour whom " there is nothing, who hath begun and completed every thing that is, who both fills " our eyes with wonder, and eludes our utmoft obfervation, He is only to be feen by
" humble

* Arilotle. $\quad+$ Sencea, Quafl. ii. 45. On this fubjef, however, we mult le cautions not to affume the effer for the caufe.
$\ddagger$ Exodus, xx. 4 .
\| Pliny's Nat. Hif. ii 7. Vol. I. C
" humble contemplation of his peffections; for His Glory fhines in the fplendour of " holy and impenetrable retirement, to which only the foul hath accefs *."

The universs includes every thing that exifts under God, and which can come under our obfervation by the agency of our fenfes. Thefe are the flars, the elements, and the world, whirling round with never ceafing and unerring velocity. "We per"ceive that the fleady motions of thefe bodies muft depend on the power of eternal " laws, and that the order of their apparently wandering courfe cannot proceed at " random; neither have the other orbs been collected with fuch infinite contrivance " that the vaft mafs of our world might remain immoveable, on purpofe only to view " the heavens revolve around $\dagger$."

The ftars are the moft remote lucid bodies of the creation which revolve in a perpetual motion: They either fhine by their own proper light, as the Sun, and the other more remote fixed ftars; or they are planets deriving light from other flars. Of thefe latter bodies, the primary planets, belonging to the Solar Syftem, are Saturn, Jupiter, Mars, the Earth, Venus, and Mercury $\ddagger$. Some of thefe primary planets have fecondaries, or fatellites, which follow the motions of the primary round which they revolve; as the Moon round the Earth, and feveral others of a fimilar kind. "Neither can fo vaft "" a machine fubfift without a preferver, nor can the regular courfe of the flars be " produced by the impetus of a fortuitous caufe; for whatever is fet in motion by the " effect of chance will frequently have its progrefs difturbed, and muft fpeedily be " jumbled together \|."

The elements are the moft fimple natural fubftances; of them the atmofpheres of the planets are compofed ; and by them, in all probability, the fpaces between the ftars are filled.
FIRE, is luminous, refilient, warm, evolant, vivifying.

AlR, WATER EARTH,
tranfparent, diaphanous, opake,
elaftic, dry, moift, fixed, cold,
evolant, encircling, gliding, quiefcent,
generating. conceiving. barren.
" Thus the whole order of this world is formed from confufion §."
The


The Earth is a planetary fphere, which turns round its axis once every twenty four hours, and which revolves in an yearly orbit round the Sun; it is furrounded by an elementary atmofphere, and covered by a ftupendous cruft of natural bodies, the mere furface of which forms the whole object of our fcience. This globe is terraqueous, or compofed of land and water; its more depreffed parts are overflowed with water, and gently preffed together by the fea; the more elevated parts are deferted by the water; and gradually enlarge into dry and habitable continents. This dry land is. fprinkled by vapours, which, rifing from the water, are gathered into clouds by the action of the air ; by this means the higheft Alpine mountains, covered with eternal fnows, furnifh rivulets which unite to form perpetually flowing rivers: Thefe, pervading the thirfty earth, afford moifture to the productions of the ground, which ferve as food for the living inhabitants: At the fame time the motion of the winds excites a genial fire, which fupplies vivifying heat to natural bodies. "The revolutions of the elements are " alternate, and the changes among all things are reciprocal; fo that whatever is loft " by one is received by fomething elfe *."
" Nature is the immutable law of God, by which alone every thing is, and acts, " and is appointed to act $\dagger$." This artificer of all things, taught by its own laws, by none inftucted, never acts by flarts; it works filently, following what is moft proper in all its operations; nothing is performed in vain, and nothing done fuperfluoufly; each object receives what is neceffary to its well being, and all are uniformly provided, while Nature unremittingly purfues an undeviating tract. "All things affift Nature, " that all her works may be perfectly accomplifhed $\ddagger$."

Natural bodies confift of every thing that fprings from the hand of the Creator, and which enters into the conftitution of this world: Thefe 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.
An:mals, are organized, living, and fentient bodies, poffeffing the power of fpontaneous loco-motion.
" Nature does not confine her operations to one form, but delights in variety; the " renews one figure out of another, not contented with uniformity in procedure, and " rejoices in undiminifhed power *."

The earth, as has been already obferved, is compofed of the three kingdoms of Na. ture, which conftitute what may be called her Empire; thefe are,

The Mineral Kingdom, which in rude maffes occupies the interior parts; being generated from falts, it is accidentally mixed together, and fafhioned by chance in the ground.

The Vegetable Kingdom, clothes the furface of the earth with verdure, imbibes moifture through bibulous roots, breathes the air by its quivering leaves, celebrates nuptial feftivities in a genial metamorphofis, and continues its various kinds by the difperfion of feeds within proper limits.

The Animal Kingdom, adorns the external parts of the earth with fentient beings; thefe have voluntary motion, they refpire, 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 likewife.reftrain, within proper bounds, the numbers of animals and of vegetables by preying on both.

Man, endowed with wifdom, was formed by his Creator the moft perfect, laft, and nobleft of all his works on this earth; clothed with wonderful marks of the Divine Majelty, he judges, according to the limits of his fenfes and capacity, of the amazing contrivance evident in creation; he admires its aftonifhing beauties and confummate perfections, and, from thefe, is led humbly to adore the glorious author of all. Carrying his views through the multiplied generations which have paffed away, he afcends to the knowledge of the Creator; and, looking forward to the conftant perfervation of all things, he difcovers the never failing watchfulnefs of Nature over all her works. On one hand, the Divine power is feen to enoble the earth by the production of vegetables, and to give honour to the vegetable kingdom in its ufefulnefs to animals; on the other hand, man evidently reflects back the radiant beams of reafon towards the glorious and majeftic fountain of all perfect wifdom. "Thus the whole world is full " of the divine glory, while in man all his works praife Cod $\dagger$." Man, formed by the quickening hand of God out of the fluggifh ground, contemplates the majefty of

[^2]his Author through the ends of creation; he is appointed a fit inhabitant of the earth, that he may fhew forth the praifes of the mof high. " This contemplation of Nature " may be juflly confidered as a celeftial pleafure efcaped from the porch of the ban"queting houfe of heaven; and the mind which partakes of it, though encumbered " with the darknefs of human nature, enjoys a part of the celeftial light, and fpends " this life below.as if in a terreftrial paradife *."-"Neither can true piety, nor the " full meafure 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 beft and readieft courfe lies through the ftudy " of natural knowiedge $\dagger$."

Wifdom, an emanation of the Divine Spirit, is man's higheft perfection; by it he forms proper conclufions concerning fuch things as prefent themfelves to his fenfes, which can only take cognifance of fuch natural objects as are immediately around, and within reach of their fpheres of action. Hence the firft ftep towards the attainment of wifdom is to know natural bodies, and to diftinguifh them from each other: This diftinetive knowledge requires that juft ideas be formed of each particuiar body, and of all the marks imprinted on them by Nature, whereby they may each be difcrimi. nated from every other body; and, that this knowledge may be communicable, diftinct proper names mult be affixed to each individual object ; for, unlefs the name of any object is known, it becomes impoffible to apply fuch knowledge as may be already difcovered on the fubject to its proper object. Thefe are the elements and alphabet of the Science of Nature, which cannot poffibly be fudied to advantage by any one who is ignorant of this neceffary preliminary knowledge. "When the proper genus of " any object is unkrrown, even the molt accurate and elaborate defcription cannot " convey any certain knowiedge of what is meant, but muft for the molt part remain " vague and uncertain .."

## Methodical

- Act. Holm.
$\dagger$ Cicero.-After the death of Marcus Aurelius, the foldiers elected feveral Emperors who hardly knew how to write their names; there illiterate princes, confidering learned men as !azy and ufelefs drones, left learning entirely to the cloifers. The Monks at firf held the fludy of Nature in contempt; they next afperfed it as unattainable; and, lafly, they perfecuted its followers as forcerers: From this time natural knowledge, and the revealed will of God, came to be confidered as contraditory to each other; and, from the influence of this error, many bigots, even to this day, Rill perfin in fancififed ignorance. Subm, Af7. Nidrof. 1763 .
$\ddagger$ Cuefalpinus.

Methodical arrangement, which is the foul of fcience, indicates every natural body at firf fight, fo that it may be known by its own name; and this name points out whatever the induftry of the age has difcovered concerning the body to which it belongs: Thus, amidf the greatef apparent confufion of things, the order of Nature is feen to retain the higheft degree of exaftnefs. This fyftematic arrangement is moft conveniently divided into branches, fubordinate to each other, which have received various appellations ; thus,

| Clafs, | Order, | Genus, | Species, | Variety. |
| :--- | :--- | :--- | :--- | :--- |
| Higheft genus, | Interniediate genus, | Proximate genus, | Species, | Individual. |
| Province, | Diftrict, | Parifh, | Ward, | Hamlet. |
| Legion, | Batalion, | Company, | Mefs, | Soldier. |

"For, unlefs natural bodies be reduced under regular order, and diftributed as in " the divifions of a well regulated camp, every thing that is known concerning them " muft remain in confufion and uncertainty *."

The names and characters employed in fyftem muft apply accurately to the order of arrangement, and are therefore to be divided, as above, into Claffes, Orders, Genera; Species, and Varieties. The differential characters, which diftinguifh thefe divifions and fubdivifions from each other mult likewife occupy a principal part in fyftematic arrangement; for it is indifpenfibiy neceffary to the knowledge of any individual, that its name may be readily known and difcovered from among the reft; "for if the "" names of things be confufed, the whole fcience muft fall into inextricable perplexi" ty $\dagger$." Hence one great employment of man, at the beginning of the world, muft have been to examine created objects, and to impofe on all the fpecies names according to their kinds.

The fcience of Nature is founded on an exact knowledge of the nomenclature of natural bodies, and of their fyftematic arrangement; this, like the clew of Ariadne, enables a philofopher to travel alone, and in fafety, through the devious meanderings of Nature's labyrinth. In this methodical arrangement, the Claffes and Orders are the creatures of human invention, while the divifion of thefe into Genera and Species is the work of Nature. All true knowledge refers finally to the fpecies of things, while, at the fame time, what regards the generic divifions is fubftantial in its nature.

[^3]One order of things originates from the Creator, while the other is the work of man, and is the fubject of our prefent labour. God, beginning from the moft fimple terreftial elements, advances through Minerals, Vegetables, and Animals, and finithes with Man. Man, on the contrary, reverfing this order, begins from himfelf, and proceeds downwards to the materials of the earth. The framer of a fyftematic arrangement begins his ftudy by the inveftigation of particulars, from which he afcends to more univerfal propofitions; while the teacher of this method, taking a contrary courfe, firft explains the general propofitions, and then gradually defcends to particulars. Springs unite together into rivulets, and thefe conjoin to form rivers ; through thefe the fkillful navigator afcends fo far as his art allows, but is never able to reach the original fountains. A diftinct knowledge of things being given us, we muft endeavour to penetrate farther into their particular properties, and to inveftigate, as far as we are able, their phenomena, their myfterious operations, their natures, their virtues, and their ufes. In the fcience of Natural Hiftory, through its feveral departments of the three kingdoms of Nature, lies the only fure foundation of Reginien, Medicine, and Economy, both that which regards the arts of life, and that which is followed in the operations of Nature. "Happy are thofe who cultivate this fcience, if they know and em. " ploy juftly the bleffings which they enjoy!"

All created things are proofs of the Divine power and wifdom, and fertile fources of human happinefs ; in their proper ufe the goodnefs of God is manifefted to man; from their beauty and fitnefs the wifdom of the Creator fhines forth; and, from the admirable economy which appears in their prefervation, their juft proportions to each other, and in the means employed for their perpetual renovation, the power of the Divine Majefty is moft clearly fhewn : Therefore the difcovery of thefe things has in all ages been highly efteemed and earnefly profecuted by the wife and truly learned; while this ftudy hath only been defpifed by the ignorant and the foolifh.

I will declare thy wondrous works, $O$ Lord! and all the generations of the earth 乃ball. Speak of the might of thy terrible acts.

## THE

## A N I M A L K I.N G D O M.

ANIMALS poffefs fenfation through the powers of a living organization, which is animated by the action of a medullary fubftance; they perceive by the energy of nerves, and move themfelves from place to place by the exertions of their will. The life of their animated, and perpetually moving, hydraulic machines, is fuftained by an electrico-etherial lambent flame, which originates in the brain; and in it is the refidence of the will, the incomprehenfible caufe of voluntary motion.

Nature, munificent in the multiplication of her works almoft to prodigality, has ordained that animal life fhould originate in minutenefs beyond conception; it is generated in a fluid, and begins to exift in the liquid matter of an egg; for, as has long ago been obferved by Ariftotle, "every living thing arifes from an egg." The egg within its coats, which often contain the white or glutinous matter, is always compofed of a yolk; floating on the upper furface of this is inferted the pulfatory fpeck, or punctunn faliens; this enlarges, by a fpecies of vegetation, into an embryo, which, like a plant by its fem, 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, fimilar to the plume in vegetable feeds, which has been called the carina of Malpighius. This, through the male in. Aluence, analogous to the action of the farina foccundans, or pollen of plants, aflume to itfelf a heart, which ramifies through the whole of its minute body; for it is oblerved that the pulfatory fpeck, or punctum falicns, of the hatching egg, firft prefents to view a beating heart, and a brain, with its medulla oblongata. This little heart, which ftops when cold, is excited to action by the influence of genial heat; and into this the gradual expanfion of the air bubble prefles the nourifhing liquors, through proper vafcular canals prepared for their conveyance. The firft rudiment, therefore, of life in living animals is only a medullary ramification continued from the firlt creation of each !pecies; hence the egg may be conflered as a living medullary bud, exifing from the
very origin of the mother, though it does not affume its own proper exifence till it be furnifhed, by impregnation, with the paternal heart. From this it follows, that equivocal generation is an impoffible abfurdity.

The hydraulic animal machine refembles that of vegetables, but is exclufively conjoined with a vaft number of faculties which are lodged in, or are dependent on the fructure of, the brain. The foft internal medullary pith ftretches out from the brain, as from a bulbous root, into a fimple flem, which is infinitely fubdivided in its courfe, and fends out nervous filaments, fimilar to itfelf, for the fupply of every part of the body. The hardened inward woody matter, which, covering the former, arifes from the fkull as from a root, elongates into the vertebral flcm, is articulated by moveable joints, and branched with oppofite bouglss ; to thefe are attached the fibrous, flefhy, and contractile mufcles, analogous to leaves, fpreading in determinate order, and having their extremities fixed to the neareft joints. The external cortical fubfance is rooted internally in the lacteals, meets together in the heart, as a bulb, and fpreads out in a double and fimilar vafcular feen, which branches fimilarly into infinitely ramified double twigs; from the extreme bifurcation of thefe arife the genital parts of fructification.

The interior faculties of the animal machine are, ift, The animal, elearic, 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. $2 d$, The vital pneumatic faculty, which, refiding in the lungs, abiorbs the vital principle from the air for fupporting animal heat, and for preferving the living principle. 3d, The natural hydraulic faculty, which refides in the vafcular fyftem, 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 neceffity, and perpetually guarding againft deficiency or redundance. 4th, The digeftive faculty, which, refiding in the alimentary canal, prepares proper juices for being taken up by the lacteal veffels, which carry them into the fyftem, for the nourifhment and fupport of the whole. $5^{\text {th }}$, The genial fpermatic faculty, which is placed at the extremity of the trunk containing the animal and natural faculties; this conjoins the influence of the nervous and vafcular organs, and gives origin to a diftinct animalcular machine, in every refpect fimilar to the parent flock.

The inflruments of the fenfes are phyfical organs, placed at the extremities of nerves derived immediately from the brain: Through the influence of thefe the animal, by a Vol. I.

I
Divine

Divine contrivance, is enabled to perceive external objects.-The Eye is a camera ob. fcura, which paints external objects in their juft forms, proportions, and colours.The ear is a drum, compofed of a tight membrane flreached over the cochlea, which gives perception of found, in confequence of tremulous motions excited by the air.The nose is a broad, convoluted, humid membrane, which arrefts the volatile effluvia which float in the air.-The tongue, befet with little fpongy papillae, attracts fuch fubftances as are applied to it in a fate of folution.-The fenfe of touch refides in foft papillae, which are fpread every where over the fkin, and which readily affume the figure of fuch bodies as come into contact with them.

Moft animals enjoy the ufe of thefe fenfes, though all are not poffeffed of every one of them: They might have employed additional fpecies of perception, if it had pleafed the Creator to endow them with a greater number of fenfative organs; as the magnet perceives the prefence of iron, and as amber indicates the exiftence of slectrical phenomena: Antennae are only given to infects, and the ufes of there organs are as much unknown to us as thofe of the Ears muft neceffarily be to that tribe of animals. The Eye acts by the agency of light; the Ear through the influence of air ; the fenfe of Touch is produced by the contact of folid bodies; the Nofe examines volatile fubftances by means of its nerves; and, laftly, the Tongue, by its fibrils, attracts foluble things, that we may be enabled to judge if they are agreeable, permitted, and fit for ufe; or whether they be difagreeable, forbidden, and noxious; and reflection induces us to choofe fuch as are grateful to our fenfes, rejecting thofe which are difo agreeable.

| JOY, | is childifh, fpongy, laughing, | fanguineous, warm, tranfpiring, | red, <br> freely pulfing, alert, | oily, <br> breathing eafily, Life. |
| :---: | :---: | :---: | :---: | :---: |
| TEAR, | youthful, <br> lax, <br> fuffocating, | phlegmatic, chilling, purging, | pale, weakly puling, trembling, | watery, <br> breathing fhort, Dijeafe. |
| ANGER, | manly, <br> firm, fnorting, | choleric, hot, urining, | yellow, <br> frongly puifing, agitating, | fpiritous, afthmatic, Medicine. |
| GRIEF, | aged, rigid, fighing, | melancholic, cold, coftive, | atrabilious, flowly pulfing, quiefcent, | acid, breathing difficultity, Death. |

Thus,

Thus, Joy fills itfelf with the good things of this life; Fear efcapes from danger by fight; Anger defends itfelf by refiftance; and Grief mourns for the lofes and mio feries which are incident to this mortal ftate.

The policy of Nature is equally manifefted 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 interefts of the governed, fo herbivorous animals are created for fubjecting vegetables under proper reftriction, and ca:nivorous for preventing the exuberance of thofe animals that live on vegetables; and of thefe laft the greater keep the leffer within proper bounds. Man, in his character of an aninal, is intended for preferving order over all, but chiefly on his own account; excited by a favage inllinct, he exercifes tyrannic rule, that juft proportions may be perpetually preferved among the members of the natural commonwealth. "Many individuals, in their turn, among the citizens of "s this great republic, vainly confpire againft the majelty of rational Man, their ap" pointed chief magiftrate, whofe great employment is to acknowledge the high Au" thor of the whole *." As water collects from mulcitales of fmall fprings, through enlarging rivulets, freams, and rivers, to flow into the immenfe ocean, fo the commonwealth of Nature, beginning from the vaftly numerous plebeian rank of animals, afcends, through lefs numerous patricians, and by a fcanty nobility, to Miau, the emperor and ruler of the whole; while even the fmalleft animals, which, by their infinie number, poffefs vait power and energy, contribute to the wellfare of the larger ; and the lefs active give place to fuch as are more excellent: Thus Nature is never greater than when it feems compofed infinitely of little things. The agents of this natural police, each appropriated to its proper department, ate equally numerous with the fpecies of animals; all being prompted to the proper difcharge of their duty, becaufe their own prefervation depends on that being accurately fulfilled, that nothing may be neglected, and nothing done in vain. And, left any one fhould encroach on the province of another, and thereby deprive his neighbour of the reward appointed to his actions, the Law of Poifon is eftablifhed, under the pain of capital punifhment, and recorded even in the animal fenfes, chiefly thofe of tatte and fmell, Ifft tranfgreffors, by pleading ignorance, fhould efcape.

The principal occupations of the inhabitants of Nature are:-To multiply their fpecies, that every thing may remain in juft quantity and proportion:- To preferve equi. librium among the fpecies of arimals and vegetables, that a juft proportion may for ever be continued; this end is accomplifhed in various ways; ift, by annually cutting

D 2
down

## * Amoen. Acad. vi. 17.

down the vegetable crop, that the yearly growth may be renewed; 2d, by reftraining the numbers of fuch as become erroneous, left any of the proper fpecies be expelled; 3 d , by deftroying languid, dead, nafty, defiled, ftagnant, acid, and putrid matters, that the elegance of Nature may be preferved:-Laftly, To defend themfelves from extinction, left the execution of Nature's laws floould be neglected.

The economy of Nature is employed in the Generation, Prefervation, and Deftruction, of things; and all Nature confpires 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 firft race of individuals, this truft paffes, in the defcending line, to their offspring, who do not repay the labours of their parents. Prefervation is to be accomplifhed by the provifion of daily food, which, being widely fcattered, is therefore to be fought after with diligence; thus, want fcatters thofe over the face of the earth whom love gathers together. The deftruction of one individual is neceffary for repairing the wants of another; life muft be fuftained by conftant and laborious fearch after the carcaffes of objects fit for food, and thefe do not abundantly occur: Thus, a continual devaftation of all things is produced; the more alert efcape the danger by their bravery, by defences, and by various contrivances; while the more languid fink under the perpetual warfare; the moft active haften on in their courie, that Nature may perpetually rejoice in the conftant 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 difperfes them, that they may labour for their prefervation; and-Horrible Pain ftirs them up to deftroy, and caufes them to avoid deftruction. In all, the wifdom of God is made manifeft:

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


CHARACTERS

* Haller, Element. Phyfol. i. 305. 30\%. informs us, that in all the cold blooded animals which he had diffected, he uniformly found the heart to have but one auricle and one ventricle; it is therefore furprifing that Haffelquif, Itin. Palef. 293, fhould afcribe two of each to the crocodile, more efpecially as Borichius, Herm. Sap. Egypt. 276, had before declared its heart to have only one of each.-Lin.


## C H A R A C T E R S

## OFTHE

## CLASSES OF THE ANIMAL KINGDOM.

## I. MAMMALIA.

The heart has two auricles and two ventricles; the blood is warm and red.
The lungs refpire regularly alternate.
The jaws are horizontally incumbent on each other, and covered with lips; within which the teeth are, for the moft part, included.
They procreate by an incrant penis; are viviparous and lactiferous.
Their organs of fenfe are, the tongue, noftrils, 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 thofe which are entirely confined to the water, whofe hind legs are wanting. Moft have tails.

## II. B I R D S.

The heart has two auricles and two ventricles; the blood is warm and red.
The lungs refpire regularly alternate.
The jaws are horizontally incumbent, naked, ftretched out, and without teeth.
The penis is fubintrant; they have no fcrotum; and are oviparous, the eggs being covered with a calcareous fhell.
Their organs of fenfe are, the tongue, noftrils, 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-fhaped rump.

## III. A M P H I B I A.

The heart has one auricle and one ventricle; their blood is cold and red.
The lungs refpire according to the will of the animal.
The jaws are horizontally incumbent on each other.
The penis, in many fpecies, is double ; the eggs of moft are membranous.
Their organs of fenfe are, the tongue, noffrils, eyes, and ears.
They are covered with a naked fkin.
Their motive organs are various in different animals, and wanting in fome,

## IV. FISHES.

The heart has one auricle and one ventricle; the blood is cold and red.
They have compreffed external gills inftead of lungs.
The jaws are horizontally incumbent on each other.
The penis is wanting in moft. The eggs have no white.
Their organs of fenfe are, the tongue, noftrils? eyes, and ears.
They are covered with imbricated fcales.
Their motive organs are fins fitted for fivimming.

## V. INSECTS.

The heart has one auricle and one ventricle, propelling, cold, colourlefs, 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 fenfe are, the tongue, eyes, antennae on the head, which is deftitute of brain, and neither ears nor noftrils.
They are covered by a boney coat of mail.
Their motive organs are legs in all, and wings in a great many.

## VI. W ORMS.

The heart, for the moft part, has one ventricle without any auricle, and propels a cold colourlefs fanies.
Their breathing pores are obfcure and uncertain.
Their copulation and penis are various; fome are hermaphrodites, having both male and female parts in one individual.
Their organs of fenfe are tentacula in all, and eyes in moft; the brain, ears, and noftrils, are wanting.
They are covered with calcareous fhells, or have no covering except fpines.
They have neither feet nor fins.

Thus Nature, in her Menagerie, preferves Animals in fix different forms:

MAMMALIA, Birds, Amphibia, Fishes, Insects, Worms,
covered with hair, covered with feathers, covered with fkin, covered with fcales, covered with armour, without fkin,
walk on the earth, fly in the air, creep in warm places, fwim in the water, fkip on dry ground, crawl in moift places, filent.
THE

# ANIMALKINGDOM. 

$$
\begin{array}{llllll}
\text { C } & \mathrm{L} & \mathrm{~A} & \mathrm{~S} & \mathrm{~S} & \mathrm{I} .
\end{array}
$$

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M A M. M A L I A, 0 R
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ANIMALS WHICH GIVE SUCK TO THEIR YOUNG.

## SYSTEMATIC CATALOGUE

OFTHE

## M A M M A LI A＊。

## I．PRIMATES．

MAN．
Sapient Man．
Wild Men．
Americans．
Europeans．
Afiatics．
Africans．
Monfters．
Dwarfifh．
Gigantic．
Mutilated．
Beardlefs．
Sharp－headed．
Flat－headed．
APE．
＊APES．
1．Chimpanzee．
2．Ourang Sutang．
3．Pongo．
4．Jocko．
5．Great Gibbon．
6．Leffer Gibbon．
ii SIMIA．
Divided into
i HO MO．
1．Homo Sapiens．
${ }^{\omega}$ ．H．Feri．
s．H．Americani．
\％．H．Europaei．
¿．H．Afiatici．
2．H．Afri．
६．H．Monftrofi．
1．Alpini．
2．Patagonici．
3．Monorchides．
4．Imberbes．
5．Macrocephali．
6．Plagiocephali，

SIMI 压。
1．Simia troglodytes．
2．Simia Satyrus．
B．S．Satyrus Pongo．
r．S．Satyrus Jocko．
3．Simia Lar．
ß．S．Lar minor．

C
＊The figures before the Englifh names exprefs the running number in the clafs， thofe preceding the Latin names denote the fpecies in each genus，and the Greek letters denote the varieties in each fpecies．

## CATALOGUE

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. Hoggifh Baboon.
17. Wood Baboon.
18. Yellow Baboon.
19. Cinereous Baboon.
20. Blue-faced Baboon.
21. Brown Baboon.
22. Crefted Baboon.

MONKEYS.
23. Dog.tailed Monkey.
24. Tartarin.
25. Urfine 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. Gpotted Monkey.
36. Greer: Monkey.
3. $\mathrm{I}^{\pi}$ ruflache.
38. Mangabey.
\%. S. Lar argentea.
4. Simia Sylvanus.
5. Simia inuus.
6. Símia Suilla.

> PAPIONES.

1. Papio nemeftrina.
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 criftata.

## CERCOPITHECI.

1. Cercopithecus cynoturus.
2. Cercopithecus Hamadryas.
\&. C. Hamadryas urfinus.
3. Cercopithecus veter.
B. C. veter albibarbatus.
4. Cercopithecus silenus.
B. C. Silenus albibarbatus.
\%. C. Silenus Tie-tie.
ס. C. Silenus purpuratus.
5. Cercopithecus Faunus.
6. Cercopithecus cynomolgus.
7. Cercopithecus cynocephalus.
8. Cercopithecus Diana.
9. Cercopithecus fabaeus.
10. Cercopithecus cephus.
11. Cercopithecus aethiops.

## ○ア THE M A M M A LIA.

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. Yellowifh Monkey.
58. Tawny Monkey.
59. Greenifh Monkey.
60. Hircine Monkey.
61. King Monkey.
62. Bay Monkey.
63. Annulated Monkey.

SAPAJOUS.
64. Guariba.
65. Arabata.
66. Quato.
67. Exquima.
63. Sajou.
69. Grey Sajou.
70. Horned Sapajot.
71. Brown Sapajou.
s. C. aethiops torquatus.
12. Cercopithecus aygula.
в. C. aygula Monea.
13. Cercopithecus nictitans.
B. C. nictitans barbatus.
14. Cercopithecus finicus.
8. C. finicus pileatus.
15. Cercopithecus nemaeus.
16. Cercopithecus Mona.
17. Cercopithecus ruber.
a. C. ruber nigrofafciatus.
ß. C. ruber albofafciatus.
18. Cercopithecus Talapoin.

乃. C. Talapoin niger.
19. Cercopithecus petauritus.
20. Cercopithecus maurus.
21. Cercopithecus Roloway.
22. Cercopithecus nafuus.
23. Cercopithecus capiftratus.
24. Cercopithecus luteolus.
25. Cercopithecus fulvus.
26. Cercopithecus viridens.
27. Cercopithecus hircinus.
28. Cercopithecus regalis.
29. Cercopithecus badius.
30. Cercopithecus fufcus.
$S A$ P $A \mathcal{I} I$.
I. Sapajus Beelzebub.
2. Sapajus feniculus.
3. Sapajus panifcus.
4. Sapajus Exquima.
5. Sapajus trepidus.
B. S. trepidus fulvus.
6. Sapajus fatuellus.
7. Sapajus apella.

## CATALOGUE

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

SAGOINS.
78. Saki.
79. Sanglin.

8c. Yellowifh Sanglin.
81. Pinche.
82. Marikina.
83. Mico.
84. Tamarin.

> MA UCAUCO.
85. Loris.
86. Iaillefs Maucauco.
87. Indri.
88. Potto.

Sg. 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.
в. S. Capucinus albulus.
9. Sapajus fciureus.
\&. S. fciureus mortus.
10. Sapajus fyrichtus.
11. Sapajus variegatus.

## S AGOINI.

1. Sagoinus pithecia.
2. Sagoinus Jacchus.
ß. S. Jacchus mofchatus.
3. Sagoinus Oedipus.
4. Sagoinus rofalius.
5. Sagoinus argenteus.
6. Sagoinus Midas.
$L E M U R$.
7. Lemur tardigradus.
8. Lemur ecaudatus.
9. Lemur Indri.
10. Lemur Potto.
11. Lemur Mongoz. B. L. Mongoz maurus.
\%. L. Mongoz negro.
§. L. Mongoz albipes.
12. L. Mongoz fufcus.
५. L. Mongoz cinereus.
13. Lemur Macoco.
${ }^{\alpha}$. L. Macoco niger.
B. L. Macoco fufcus.
$\%$ L. Macoco albus.
14. L. Macoco variegatus.
15. Lemur Catta.
16. Lemur murinus.
17. Lemur bicolor.
18. Lemur laniger.
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Of THE M A M M A L I A
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103. Podje.
104. Prehenfile Maucauco.
105. Coluga.

B A T.

1 1 . Lemur Podje.
12. Lemur prehenfilis.
13. Lemur volans.
A. With four foreteeth in each jaw.

Vampire.
106. Rouffet.
107. Rouget.
108. Leffer Vampire.
109. Spectre.
110. Spear-nofed Bat.
111. Heart-nofed Bat.
112. Javelin Bat.
113. Leaf nofed Bat.
114. Hare lip Bat.
115. Chop-fallen Bat.

1. Vefpertilio Vampyrus.
$\alpha$. V. Vampyrus niger.
e. V. Vampyrus fubniger.
$\gamma$. V. Vampyrus helvus.
2. Vefpertilio Spectrum.
3. Vefpertilio perfpicillatus.
4. Vefpertilio Spafma.
5. Vefpertilio haftatus.
6. Vefpertilio foricinus.
7. Veipertilio leporinus.
8. Vefpertilio labialis.
B. With four foreteeth above, and fix below.
9. Long eared Bat.
10. Common Bat.
11. Noctule.
12. Serotine.
13. Pipiftrelle.
14. Barhâtelle.
15. Bearded Bat.
16. Vefpertilio auritus.
17. Vefpertilio murinus.
18. Vefpertilio Noctula.
19. Vefpertilio Serotinus.
20. Vefpertilio Pipiftrellus.
21. Vefpertilio Barbaftellus.
22. Vefpertilio hifpidus.
C. With four foreteeth above, and eight below.
23. Striped Bat.
24. Reddifh Striped Bat.
25. Vefpertilio pictus.
$\beta$. V. pictus rubellus.
D. With two foreteeth above, and fix below.
26. Senegal Bat.
27. Vefpertilio nigritia.
E. With two foreteeth above, and four below.

Bull-dog Bat.
126. Greater Bull-dog Bat.
18. Vefpertilio Moloffus.
u. V. Moloflus major.

## CATALOGUE

127. Leffer Bull-dog Bat.
F. With two foreteeth above, and none below.
128. Cephalote.
129. Straw.coloured Cephalote.
в. V. Moloflus minor.
G. With no foreteeth above, and four below.
130. Purfe-winged Bat.

Horfe fhoe Bat.
${ }^{13}$ 1. Larger Horfe-fhoe Bat.
132. Leffer Horfe-fhoe Bat.
19.' Vefpertilio Cephalotes.
ß. V. Cephalotes melinus.
20. Vefpertilio lepturus.
21. Vefpertilio ferrum-equinum. ${ }^{\infty}$
a. V. ferrum equinum major.
ß. V. ferrum equinum minor.
H. With no foreteeth in either jaw.
133. New-York Bat.
22. Vefpertilio noveboracenfis.
I. The teeth uncertain.
134. Broad-winged Bat.
135. Broad-tailed Bat. 136. Claytons Bat.
23. Vefpertilio lafcopterus.
24. Vefpertilio lafiurus.
25. Vefpertilio Americanuso

## II. $\mathrm{B} R \mathrm{U} \mathrm{T}$ A.

SLOTH. v $\quad B R A D Y P U S$.
137. Ai.
138. Unau.
33. Five.toed Sloth.

ANT-EATER,
140. T'wo-toed Ant-eater.
141. Three-toed Ant-eater.
142. Great Ant-eater.
143. Short-nofed Great Ant-eater.
144. Tamandua.
145. Five toed Ant eater.
146. Little Tamanoir.
147. Cape Ant-eater.

MANIS.
148. Pangolin.

1. Bradypus tridactylus.
2. Bradypus didactylus.
3. Bradypus pentadactylus.
4. Myrmecophaga didactyla.
5. Myrmecophaga tridactyla.
6. Myrmecophaga jubata. ß. M. jubata fima.
7. Myrmecophaga tetradactyla.
8. Myrmecophaga pentadactyla, B. M. pentadactyla minor.
9. Myrmecophaga capenfis.
vii $\quad M A N I S$.
10. Manis pentadactyla.
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OFTHEM AMMALLI,A.
```

549. Phatagin.

ARMADILLO.
150. Apara.
151. Frur-banded Armadillo.
152. Encouberto.
153. Seven banded Armadillo.
154. Eight-banded Armadillo.
155. Nine:banded Armadillo.
156. Leverian Armadillo.
157. Kabaffou.

158 Largeft Armadillo.
159. Cirquinçon.
160. Long.tailed Armadillo.

RHINOCEROS.
161. One.horned Rhinoceros.
162. Two horned Rhinoceros.

S U K O TYRO.
163. Javan Sukotyro.

ELEPHANT.
164. Great Elephant.
165. American Flephant.

W ALRUS.
166. Morfe.
167. Dugon.

Fifh-tailed Walrus.
168. Lamentin.
169. Manati.
170. Sea-ape.
2. Manis tetradactyla.

## viii $D A S$ ゲPUS.

1. Dafypus tricinctus.
2. Datypus quadricinctus.
3. Dafypus fexcinctus.
4. Dafypus feptemcinctus.
5. Dafypus octocinctus.
6. Dafypus novemcinctus.
๑. D. novemcinctus leverianus.
7. Dafypus duodecemcinctus.
8. Dafypus maximus.
9. Dafypus novemdecemcinctus.
10. Dafypus longicaudatus.
ix RHINOCEROS.
ı. Rhinoceros unicornis.
11. Rhinoceros bicornis.

$$
\mathbf{x} \quad S U K O \mathcal{T} T R O
$$

I. Sukotyro indicus.
xi ELEPHAS.

1. Elephas maximus.
2. Elephas americanus.
xii TRICHECHUS.
I. Trichechus Rofmarus.
3. Trichechus Dügon.
4. Trichechus Manatus. \%. T. Manatus auftralis. ह. T. Manatus borealis. \% T. Manatus Siren.

## CATALOGUE.

III. F E R Æ.

S E A L.
171. Urfine Seal.
172. Bottle-nofed Seal.
173. Maned Seal.
174. Common Seal.
175. Bothnic Common Seal.
176. Siberian Common Seal.
177. Cafpian Common Seal.
178. Hooded Seal.
179. Swartfide.
180. Bedlemer.
181. Neitfek.
182. Newfoundland Seal.
183. Klapmus.
184. Great Seal.
185. Little Seal.
186. Chilcefe Seal.
187. Long-necked Seal.
188. Falkland Seal.

18g. Parfons Seal.
190. Harneffed Seal.

19t. Wooly Seal.
192. Speckled Seal.
193. Spotted Seal.
194. Black Seal.

D O G.
Faithful Deg.
195. Shepherds Dog.
196. Pomeranian Dog,
197. Siberian Dog.
198. Iceland Dog.
199. Great Water Dog.
xiii
$P H O G A$.

1. Phoca urfina.
2. Phoca leonina.
3. Phoca jubata.
4. Phoca vitulina.
в. P. vitulina botnica.
${ }_{2}$. P. vitulina fibirica.
d. P. vitulina cafpica.
5. Phoca monachus.
6. Phoca groenlandica.

ह. P. groenlandica niger.
7. Phoca hifpida.
в. P. hifpida quadrata.
8. Phoca criftata.
9. Phoca barbata.
io. Phoca pufilla.
11. Phoca chilenfis.
12. Phoca mutica.
13. Phoca auftralis.
14. Phoca teftudo.
15. Phoca fafciata.
16. Phoca laniger.
17. Phoca punctata.
18. Phoca maculata.
19. Phoca nigra.
xiv

$$
C A N I S .
$$

1. Canis familiaris.
«. Canis domeflicus.
B. Canis pomeranus.
\%. Canis fibericus.
d. Canis iflandicus.
2. Canis aquaticus major.
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of The M A M M A LI A.
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200. Leffer Water Dog.
201. Pyrame.
*. King Charles's Spaniel.
**. French Pyrame.
202. Spaniel.
203. Shock Dog.
204. Lion Dog.
205. Little Danifh Dog.
206. Baftard Pug Dog.
207. Pug Dog.
a. Artois Dog.
b. Alicant Dog. .
208. Bull Dog.
209. Maftiff.
210. German Hound.
211. Hound.
212. Blood Hound.
213. 
214. Pointer.
215. Barbet.
216. Grey-hound.
217. Irifh Grey-hound.
218. Turkifh 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.

Turnfpit.
227. Straight-legged Turnfpit.
228. Crook-legged Turnfpit.
229. Shaggy Turnfit.

Alco.
૬. Canis aquaticus minor.
\%. Canis brevipilis.
*. C. brevip. regalis.
**. C. brevip. gallicus.
9. Canis extrarius.

1. Canis melitaeus.
x. Canis leoninus.
л. Canis variegatus.
$\mu$. Canis hybridus.
\%. Canis fricator.
a. C. fricator gallicus.
b. C. fricator hifpanicus.

弓. Canis Moloffus.
-. Canis anglicus.
ж. Canis fagax.
¢. Canis gallicus.
r. Canis fcoticus.
т. Canis venaticus.
v. Canis avicularis.
¢. Canis aquatilis.
x. Canis curforius.
\%. C. curforius hibernicus,
«. C. curforius turcicus.
$\alpha \%$ Canis Grajus.
\&. C. Grajus hirfutus.
\%\%. C. Grajus italicus.
**. C. Grajus orientalis.
¿久. Canis aegyptius.
\%. Canis laniarius.
$\zeta \%$ C. Laniarius aprinus.
\%n. C. Laniạrius fuillus.
29. Canis Vertegus.
a. C. Vertegus rectus.
b. C. Vertegus valgus.
c. C. Vertegu, viliofus.
«. Canis americanus.

## GATALOGUE

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. Abyffinian Hyaena.
243. Spotted Hyaena.
244. Jackal.
245. Cape Jackal.
246. Barbary Jackai.
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. Bluifh Aratic Fox.
257. Crofs Fox.
253. Chilefe Fox.

259: Antartic Fox.
260. Zerda.
a. C. americanus obefus,
b. C. americanus plancus.
2. Cianis antarticus.
3. Canis Lupus.
a. C. Lupus flavus.
ß. C. Lupus albus.
ס. C. Lupus niger.
s. C. Lupus fafciatus.
4. Can. Lupus mexicanus.
B. C. Lupus mexic. albus.
5. Can. Lupus Thous.
6. Canis Hyaena.
7. C. Hyaena aethiopicus.
8. C. Hyaena Crocuta.
9. Canis aureus.
10. Canis Mefomelas.
11. Canis Adive.
12. C. Vulpes Lycaon.
13. C. Vulpes vulgaris.
14. C. Vulpes Alopex.
c. C. Vulp. Alopex americanus.
B. 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.
в. C. Vulp. Lagop. cerulefcens.
20. C. Vulpes cruciger.
21. C. Vulpes chilenfis.
22. C. Vulpes auftralis,
23. Canis Cerdo.

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of them AMMMALIA.
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C A T. $\mathrm{xv} \quad F E L I S$.

* 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. Domeftic Cat.

28 I. Angora Cat.
282. Tortoife fhell Cat.
283. Blue Cato
284. Red Cat.
285. Chinefe Cat.
286. Long headed Cat.
287. Saca.
** 1 Y N XES.

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 difcolor.

1r. Felis concolor.
12. Felis Couguar.
13. Felis tigrina.
14. Felis mexicana.
15. Felis bengalenfis
16. Felis capenfis.
17. Felis Manul.
18. Felis Serval.
19. Felis Catus.
a. F. Catus ferus,
B. F. Catus domefticus.
\%. F. Catus angorenfis.
ठ. F. Catus hilpanicus.
s. F. Catus caeruleus.

豸. F. Catus ruber.
n. F. Catus finenfis.
9. F. Catus aureus.

ヶ. F. Catus madagafcarenfis,
LrNCES.

With fhort tails, and pencilled ears.
288. Cafpian Lynx.
289. Mountain Lynx.
f. Lynx Chaus.
2. Lynx montana,
d 2.

## CATALOGUE

290. Perfian Lynx.

29r. Bengal Lynx.
292. Booted Lynx.
293. Barbary Lynx.
294. Common Lynx.
295. White Lynx.
296. Yellow Lynx.
297. Thibet Lynx.
298. C.anadian 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. Coaffe.
309. Quasje.
310. Striped Skunk.
311. White Skunk.
312. Conepatl.

3:3. Zorilla.
314. Mapurito.
315. Grifon.
316. Ceylon Fitchet.
317. Cape Fitchet.
318. Civet.
$3^{19}$. Zibet.
320. Hermaphrodite Fitchet.

32 I. Spanifh Genet.
322. St Gernains Genet.

2:23. Leverian Genct.
3. Lynx Caracal.
4. Lynx bengalenfis.
5. Lynx nubienfis.
6. Lynx lybienfis.
7. Lynx vulgaris. ß. Lynx vulg. alba.
r. Lynx vulg. melina.

ס. Lynx vulg. maculata.
8. Lynx canadenfis.
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 nafua.
8. Viverra narica.
9. Viverra vulpecula。
10. Viverra Quasje.
if. Viverra Putorius.
11. Viverra Mephitis.
${ }^{13}$. Viverra Conepatl.
12. Viverra Zorilla.
13. Viverra Mapurito.
14. Viverra vittata.
15. Viverra zeylanica.
16. Viverra capenfis.
17. Viverra Civetta.
18. Viverra Zibetha.
19. Viverra hermaphrodita.
20. Viverra Genetta.
21. Viverra gallica.
22. Viverra annulata.
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OFTHEMAMMALIA.
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324．Foffane．
325．Bizaam．
326．Poto．
327．Kinkajou．
328．Ratel．
329．Striped Fitchet．
330．Malayan Fitchet．
331．Spotted Fitchet．
WEASEL．
＊OTTERS。
332．Sea Otter．
333．Brafilian Otter．
334．Saricovienne．
335．Chilefe Otter．
336．Common Otter．
337．Canadian Otter．
338．Leffer Otter．
339．Cayenne Otter． 340．Minx．
＊＊WEASELS。
341．Tayra．
342．Galera．
343．Vanfire．
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．

25．Viverra Foffa．
26．Viverra tigrina．
27．Viverra caudivolvula．
28．Viverra prehenfilis．
29．Viverra mellivora．
30．Viverra fafciata．
3I．Viverra malaccenfis．
32．Viverra maculata．
xvii MUSTELA．
Divided into
$L U T R N_{0}$
1．Lutra Lutris．
2．Lutra brafilienfis．
3．Lutra paraguenfis．
4．Lutra chilenfis．
5．Lutra pifcatoria．
6．Lutra canadenfis．
7．Lutra fulva．
8．Lutra guianenfis．
9．Lutra Minx．

$$
M U S T E L E_{0}
$$

I．Muftela barbara．
2．Muitela Galera．
3．Muftela afra．
4．Muftela canadenfis．
5．Muftela Vifon．
6．Muftela Foina．
7．Muftela Martes．
8．Muftela guianenfis．
9．Muftela laniger．
10．Muftela Zibellina．
ß．M．Zibellina alba．
11．M．Zibellina americana．
12．M．Zibellina nigra，

## CATALOGUE

354. Polecat.
355. Ferret.
356. Sarmatian Weafel.
357. Siberian Weafel. Ermine.
358. Stoat.
359. White Ermine.
360. Common Weafel.

36 r. Snow Weafel.
362. Yeliow Weafel:
363. Chilefe Weafel.

BEAR.
Common Bear.
364. Black Bear.
365. Brown Bear.
366. Grey Bear.
367. Variegated Bear,
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 Opoffum.
383. Brafilian Opoffum.
13. Muftela Putoria.
14. Muftela Furo.
15. Muftela farmatica.
16. Muftela fibirica.
17. Muttela Erminea.
c. M. Erminea aeftiva.

及. M. Erminea hyberna
18. Muftela vulgaris.
$\beta$. M. vulg. nivalis.
19. Muftela melina:
20. Muftela Quiqui.
xviii
$U R S U S$

1. Urfus Arctos.
a. U. Arctos niger.
B. U. Arctos fufcus.
$\%$ U. Arctos grifeus.
ס. U. Arctos variegatus.,
s. U. Arctos albus.
2. Urfus maritimus.
3. Urfus americanus.
4. Urfus tetradactylus.
5. Urfus Meles.
ß. U. Meles alba.
$\%$ U. Meles maculata.
6. Urfus labradorius.
7. Urfus indicus.
8. Urfus Lotor.
\&. U. Lotor melinus.
9. Urfus lufcus.
i.. Urfus Gulo.
в. U. Gulo albus.

> DIDELPHTS..

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

M O L E.
European Mole。
401. Black Mole.
402. Variegated Mole.
403. White Mole.
404. Grey Mole.
405. American Mole.
406. Crefted Mole.
407. Long-tailed Mole.
408. Brown Mole.
409. Red Mole.
410. Gilded Mole.

## S H R E W.

411. Minute Shrew.
412. Mulky Shrew.
413. Water Shrew.
414. Javan Shrew.
415. Didelphis Opoffum.
416. Didelphis molucca.
417. Didelphis virginiana.
418. Didelphis Cayopollin.
419. Didelphis murina.
420. Didelphis guianenfis.
421. Didelphis dorfigera.
ro. Didelphis cancrivora.
II. Didelphis caudivolvula.
422. Didelphis brachyura.
423. Didelphis orientalis.
424. Didelphis Brunii.
425. Didelphis gigantea.
426. Didelphis tridactyla.
427. Didelphis vulpecula.
428. Didelphis maculata.
429. Didelphis volans.
$\mathrm{xx} \quad \tau A L P A$.
x. Talpa europaea.
a. Talpa europ. nigra.
ß. Talpa europ. variegata.
\% Talpa europ. alba.
ס. Talpa europ. cinerea.
430. Talpa flava.
431. Talpa criftata,
432. Talpa longicaudata.
433. Talpa fufca.
434. Talpa rubra.
435. Talpa aurea.
436. Sorex minutus.
437. Sorex mofchatus.
438. Sorex fodiens.
439. Sorex murinus.

## CATALOGU－E

415．Fetid Shrew．
416．Labradore Shrew．
417．Grey Labradore Shrew．
418．Surinam Shrew．
419．Timid Shrew．
420．Brafilian Shrew．
421．Pigmy Shrew．
422．Blue Shrew．
423．Mexican Shrew．
424．White．footed Shrew．
425．Square tailed Shrew．
426．Carinated Shrew．
427．Uniform Shrew．
URC．HIN。
428．Common Urchin．
429．Guiana Urchin．
430．Malacca Urchin．
431．Siberian Urchin．
432．Tendrac．
433．Tanrec．

5．Sorex Araneus．
6．Sorex arcticus．
$\beta$ ．Screx arct．cinereus，
7．＇Sorex furinamenfis．
8．Sorex pufillus．
9．Sorex brafilienfis．
10．Sorex exilis．
11．Sorex cerulaeus．
12．Sorex mexicanus．
13．Sorex albipes．
14．Sorex quadricaudatus．
15．Sorex liricaudatus．
16．Sorex unicolor．
xxii ERINACEUS。
r．Erinaceus europaeus．
2．Erinaceus inauris．
3．Erinaceus malaccenfis
4．Erinaceus auritus．
5．Erinaceus fetofus．
6．Erinaceus ecaudatus．

## IV．G L I R E S．

PORCUPINE．
1．Hyfrix criftata．
«．H．criftata europaea，
B．H．criftata indica．
2．Hyfrix prehenfilis．
\％．H．prehenfilis major．
f．IH．prehenfilis minoro．
3．Hyftrix mexicana．
4．Hyftrix dorfata．
B．H．dorfata alba．
5．Hyftrix macroura。
解 Hyftrix torofa．

CAVY. xxiv $C A V I A$.
443. Paca.
444. White Paca.
445. Akouchy.

Agouti.
446. Leffer Agouti.
447. Larger Agouti.
448. American Agouti.
449. Aperea.
450. Black Aperea.

45 1. Cobaya.
452. Patagonian Cavy.
453. Capibara.

BEAVER.
454. Common Beaver.
455. White Beaver.
456. Terrier Beaver.
457. Chilefe Beaver.

1. Cavia Paca.
в. C. Paca alba.
2. Cavia Acufchy.
3. Cavia Agouti.
a. C. Agouti cunicularis.
B. C. Agouti leporina.
\% C. Agouti americana.
4. Cavia Aperea.
ß. C. Aperea nigra.
5. Cavia Cobaya.
6. Cavia Magellanica.
7. Cavia Capybara.
xxv $C A S T O R$.
8. Caftor Fiber.
a. C. Fiber albus.
B. C. Fiber folitarius.
9. Caftor huidobrius.

MURINE QUADRUPEDS. xxvi
Divided into

* BEAVER-RATS.

458. Webbed Beaver.rat.
459. Mufquafh.
** RatS and MICE.

MYOCASTORES.

1. Myocaftor Coypus.
2. Myocaftor zibethicus. $M U R E S$.

Subdivided into $\dagger$ Myofuri.-Having naked round tails.

Piloris.
460. White Piloris.

46x. Black Piloris.
462. Caraco.
463. American Rat.
464. Brown Rat.
${ }_{46}{ }^{5}$. Black Rat.
466. Small Rat.
467. Common Moufe.
4.68. Varieties of the Com. Moule.

1. Mus Pilorides.
a. M. Pilorides albidus.
ß. M. Pilorides fulvus.
2. Mus Caraco.
3. Mus americanus.
4. Mus decumanus.
5. Mus Rattus. B. M. Rattus minor.
6. Mus Mufculus.
B. M. Mufculi varietates.

## CATA L O GU E

469. Field Moufe.
470. White Field Moufe.
471. Harveft Moufe.
472. Ruftic Moufe.
473. American Ruftic Moufe.
474. Minute Moufe.
475. Yellow Minute Mcufe.
476. Shrew-like Moufe.
477. Wandering Moufe.
478. Beech Moufe.
479. Dwarf Moufe.
480. Striped Moufe.

48 I Cherofo.
482. Barbary Moufe.
483. Mexican Moufe.
7. Mus fylvaticus.
ß. M. fylvaticus albus.
8., Mus mefforius.
9. Mus agrarius.
ß. M. agrarius americanus.
10. Mus minutus.
B. M. minutus flavus.
if. Mus foricinus.
12. Mus vagus.
13. Mus betulinus.
14. Mus pumilio.
15. Mus friatus.
B. Mus mofchatus.
16. Mus barbarus.
17. Mus mexicanus.
$\dagger$ Cunicularii.-Having hairy round tails.
484. Virginian Moufe.
485. Rock Moufe.
486. Blue Moufe.
487. Water Rat.
488. Meadow Water Rat.
489. Marfh Water Rat.
490. Black Water Rat.

49I. Spotted Water Rat.
492. Garlic Moufe.
493. Red Moufe.
494. Leffer Red Moufe.
495. Gregarious Moufe.
496. Economic Moufe.
497. Laland Moufe.
49. Wooly Moufe.
499. Meadow Moufe.
500. Blackifh Meadow Moufe.
501. Social Moufe.
502. Rambling Moufe.
503. Collared Moufe. 504. Lemming.
18. Mus virginianus.
19. Mus faxatilis.
20. Mus cyanus.

2I. Mus amphibius.
B. M. amphib. terreftris.
\%. M. amphib. paludofus.
ঠ. M. amphib. niger.
\&. M. amphib. maculatus.
22. Mus aliarius.
23. Mus rutilus.
f. M. rutilus minor.
24. Mus gregalis.
25. Mus oeconomus.
в. Mus glareolus.
26. Mus laniger.
27. Mus arvalis.
в. M. arvalis nigricans.
28. Mus focialis.
29. Mus lagurus.
30. Mus torquatus.
31. Mus Lemmus.
505. Siberian Lemming.
506. Labradore Moufe.
507. Lena Moufe.
508. Kamtfchatka Moufe.
*** HAMSTERS.
509. Siberian Hamfter.
510. German Hamfter.

51 I. Black German Hamiter.
512. Sand Hamfter.
513. Rice Hamfter.
514. Songar Hamfter.
515. Baraba Hamfter.
**** MOLE-RATS.
516. Ruffian Mole.rat.
517. Black Ruffian Mole-rat.
518. Cape Mole-rat.
519. African Mole-rat.
520. Daurian Mole-rat.

52 I. Blind Mole.rat.
MARMOT.
522. Common Marmot.
523. Monax.
524. Bobak.
525. Canadian Marmot.
526. Hoary Marmot.
527. Soullik.
528. Zifel.
529. Zemni.
530. Gundi.
531. Hudfon's Marmot.
532. Chilefe Marmot.
ß. M. Lemmus fibiricus.
32. Mus hudfonius.
33. Mus lenae.
34. Mus Tfchelag. CRICETI.

1. Cricetus Acredula.
2. Cricetus germanicus.

及. Cricetus german. niger.
3. Cricetus arenarius.
4. Cricetus phaeus.
5. Cricetus Songarus.
6. Cricetus Furunculus.

$$
M \Upsilon O T A L P E
$$

1. Myotalpa talpina.
\&. Myotalpa talpina nigra.
2. Myotalpa capenfis.
3. Myotalpa maritina.
4. Myotalpa Afpalax.
5. Myotalpa Typhla.

$$
\mathrm{xxvii} \quad A R C \mathcal{T} O M \Upsilon S
$$

I. Arctomys Marmota.
2. Arctomys Monax.
3. Arctomys Bobac.
4. Arctomys Empetra.
5. Arctomys pruinofa.
6. Ar太tomys Suflica.
7. Arctomys Citillus.
8. Arctomys Zemni.
9. Arctomys Gundi.
10. Arctomys hudfonia.
11. Arctomys maulina. SQUIRREL. xxviii $S C I U R U S$.

Divided into,

* CLIMBING SQUIRRELS.

SCIURI SCANDENTES:
Which have no flying membranes.
Common Squirrel.

1. Sciurus vulgaris.

## C A TA I. O GU.E

533. Red Common Squirrel.
534. White.tailed Common Squirrel.
5.5. Varying Common Squirrel.
535. Black Common Squirrel.
536. White Comınon Squirrel.
537. Silvery Common Squirrel.
538. White legged Squirrel.
539. Black Squirrel.
540. White nofed Black Squirrel.
541. Vulpine Squirrel.
542. White Vulpine Squirrel.
543. Grey Squirrel.
544. Labradore Squirrel.
545. Carolina Squirrel.
546. Virginian Squirrel.
547. Perfian Squirrel.
548. Georgian Squirrel.
549. Javan Squirrel.
550. Ruddy Squirrel.
551. Ceylon Squirrel.
552. Malabar Squirrel.
553. Abyffinian Squirrel.
554. Bombay Squirrel.
555. Fair Squirrel.
556. Palm Squirrel.
557. Barbary Squirrel.
558. Plantain Squirrel.

Ground Squirrel.
560. Afratic Ground Squirrel.
561. American Ground Squirrel.
562. Brafilian Squirrel.
;63. Striped Brafilian Squirrel.
$5^{5}$ 4. Carnatic Squirrel.
565. Varied Squirrel.
566. Smaller Varied Squirrel.
567. Chilefe Squirrel.
568. Mexican Squirrel.
«. S. vulgaris rufus.
B. S. vulgaris leucourus.
\%. S. vulgaris varius.
ס. S. vulgaris niger.
\&. S. vulgaris albus.
५. S. vulgaris arfenteus.
2. Sciurus albipes.
3. Sciurus niger.
B. S. niger albiroftro.
4. Sciurus vulpinus.
\&. S. vulpinus aibus.
5. Sciurus cinereus.
6. Sciurus hudlonius.
7. Sciurus carolinenfis.
8. Sciurus virginianus.
9. Sciurus perficus.
10. Sciurus anomalus.
11. Sciurus bicolor.
12. Sciurus erythraeus.
13. Sciurus macrourus.
14. Sciurus maximus.
15. Sciurus abyffinicus.
16. Sciurus indicus.
17. Sciurus flavus.
18. Sciurus palmarum.
19. Sciurus getulus.
20. Sciurus Badjing.
21. Sciurus friatus.
a. S. Atriatus afiaticus.
B. S. ffriatus americanus.
22. Sciurus aeftuans.
B. S. aeftuans fafciatus.
23. Sciurus dfchinfchicus.
24. Sciurus variegatus.
8. S. variegatus minor.
25. Sciurus Degus.
26. Sciurus mexicanus.

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OFTHE MA M MALIA.
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569. American Squirrel.
570. Guiana Squirrel.
571. Cayerne Squirrel.
572. Madagafcar Squirrel. 573. Cape Squirrel.
** FLYING.SQUIRRELS.
573. Sciurus fcrotalis.
574. Sciurus bancrofti.
575. Sciurus guajanenfis.
576. Sciurus madagafcarenfis.
577. Sciurus capenfis.

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. Southerin Flying.Squirrel.
582. Philips Flying-Squirrel.

DORMOUSE.
583. Hoary Dormoufe.
584. Wood Dormoufe.
58. Garden Dormoufe.
586. Common Dormoufe.
587. Common Jerboa.
588. Arabian Jerboa.
A. Egyptian Jerboa.
B. Siberian Jerboa.
589. Great Siberian Jerboa.
59. . Middle Siberian Jerboa.
591. Smaller Siberian Jerboa.
592. Pigmy Siberian Jerboa.
593. Cape Jerboa.

594 Cafpian Jerboa.
595. Marfh Jerboa.
596. Labradore Jerboa.
597. Circaflian Jerboa.

1. Petaurus volucella.
2. Petaurus virginianus.
3. Petaurus hudfonius.
4. Petaurus volans.
5. Petaurus fagitta.
6. Petaurus petaurifta.
«. P. petaurifta caftaneus.
B. P. petaurifta niger.
7. Petaurus auftralis.
8. Petaurus norfolcenfis.
xxix MYOXU゙S.
9. Myoxus Glis.
10. Myozus Dryas.
11. Myoxus Nitela.
12. Myoxus Mufcardinus.
xxx
DIPUS.
13. Dipus jaculus.
14. Dipus fagitta.
A. Dipus aegyptius.
B. Dipus fibiricus.
a. D. fibiricus major.
b. D. fibiricus medius.
c. D. fibiricus minor.
d. D. fibiricus pumilio.
15. Dipus cafer.
16. Dipus meridianus.
17. Dipus tamaricinus.
18. Dipus labradorius.
19. Dipus circafficus.

## CATALOGUE

HARE. $\quad$ xxxi $\quad L E P U S$.

* With fhort 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. Chilefe Hare.
608. Cape Hare.

Rabbit.
609. Wild Rabbit.
610. Black Tame Rabbit.
611. White Tame Rabbit.
612. Pied Tame Rabbit.
$61_{3}$. Silvery Tame Rabbit.
614. Hooded Rabbit.
615. Angora Rabbit.
I. Lepus Vifcaccia.
2. Lepus timidus.
ß. L. timidus cornutus.
$\%$ L. timidus melinus.
3. Lepus variabilis.
B. 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.
ß. L. Cuniculus domefticus niger.
\%. L. Cuniculus domefticus albus.
ס. L. Cunic. domeft. variegatus.
\&. L. Cunic. domeft. argenteus.
10. Lepus faccatus.
11. Lepus fericeus.
** Having no tails.
12. Lepus brafilienfis.
13. Lepus pufillus.
14. Lepus alpinus.
${ }^{15}$. Lepus Ogotona.

> AS HKOKO.
xxxii ' $H \Upsilon R A X$.
r. Hyrax capenfis.
2. Hyrax fyriacus.

## V. P E C O R A.

## CAMEL.

622. Arabian Camel.
623. Swift Camel.

6:4. Bactrian Camel.
625 . Mixed Camel.
626. Glama,
xxxiii
$C A M E L U S$ 。
I. Camelus Dromedarius. B. Camelus dromos.
3. Camelus bactrianus. \&. Camelus hybridus.
3. Camelus Glama.

Of THE M A M M A LIA.
627. Guanaco.
628. Chillihueque.
629. Vicugna.

630 . Pacos.
M U S K.
631. Thibet Mulk.
6.22. Indian Mulk.
633. Pigmy Mufk.
634. Striped Pigmy Mufk.
635. Memina.
636. Javan Mufk.
637. Brafilian Murk.
$6_{3} 8$. Formofan Mufk.
D E ER.
4. Camelus Huanacus.
5. Camelus arcucanus.
6. Camelus Vicugna.
7. Camelus Paco.
xxxiv $\quad$ OOSCHUS.

1. Molchus nofchiferus.
2. Mofchus indicus.
3. Mofchus pygmaeus.
ß. M. pygmaeus leverianus.
4. Mofchus Memina.
5. Mofchus javanicus.
6. Mofchus americanus.
7. Mofchus finenfis.

* With palmated horns.

639. Elk.
640. Jrifh Elk.

Rein Deer.
641. Common Rein Deer.
642. Greenland Rein Deer.
643. Canadian Rein Deer.
644. Fallow Deer.

1. Cervus Alces. B. C. Alces foffilis.
2. Cervus Tarandus. थ. C. Tarandus Rangifer.
в. C. Tarandus groenlandicus.
\%. C. Tarandus Caribou.
3. Cervus Dama.
** With rounded horns.
4. Stag.
5. Maned Stag.
6. Corfican stag.
7. Canadian Stag.
8. Chinefe Stag.
9. Virginian Deer.

Axis.
651. Spotted Axis.
652. Middle Axis.
653. White Axis.
654. Large Axis.
655. Porcine Deer.
656. Spotted Porcine Deer.
4. Cervus Elaphus.
ß. C. Elaphus Hippelaphus.
\% C. Elaphus corficanus.
ס. C. Elaphus canadenfis.
\&. C. Elaphus minutus.
5. Cervus virginianus.
6. Cervus Axis.
${ }_{\alpha}$. C. Axis maculatus.
\&. C. Axis unicolor.
\%. C. Axis albus.
ס. C. Axis major.
7. Cervus porcinus.
B., C. porcinus maculatus.

> CATALOGUE
657. Muntjac.
658. Roe.
659. White Roe.

660 Aha.
66 1. Mexican Deer.
8. Cervus Muntjac.
9. Cervus Capreolus.
B. C. Capreolus albus.
10. Cervus pygargus.
11. Cervus mexicanus.
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.

67 I. Savanna Hind.
672. Indian Deer.
673. Squinaton.
674. Grey Deer.
675. Unknown Deer.

GIRAFFE. . xxxvi CAMELOPARDALIS.

1. Camelopardalis Giraffa.
2. Camelopardalis.

## ANTELOPE。 <br> xxxvii $A N T I L O P E$

677. Blue Antelope.
678. Lerwee.
679. Chamois
680. Nanguer.

68 . Nagor.
682. Biggel.
683. Nylgau.
684. Saiga.
685. Tzeiran.
686. Perfian Antelope.
687. White faced Antelope.
688. Springer Antelope. 689. Baroary Autelope.

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 fubgutturofa.
11. Antilope pygarga.
12. Antilope faltans.
13. Antilope Dorcas.

## ©f the MA A MALIA.

бяо. Kevel.
691. Corine.
692. Bubalis.
693. Koba.
694. Gnou.
695. Pafan.
696. African Antelope.
697. Algazel.
698. Leucoryx.
699. Coudous.
700. Guib.
701. Grimm.
702. Guevei.
703. Wood Antelope.
704. Condoma.
705. Lidmee.

G O A T.
906. Wild Goat.
707. Common Goat.
708. Angora Goat.
709. Syrian Goat.
710. African Goat.
711. Whidaw Goat.
712. Juda Goat.
713. Capricorn.
7.14. Cabonas Goat.
715. Ibex.
716. Caucaffan Goato.

S HEEP.
Common Sheep.
717. Hornlefs Sheep.
718. Dwarf Sheep.
7.19. Ruftic Sheep.
720. Spanifh 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.
23. Antilope Oreas.
24. Antilopē fcripta.
25. Antilope Grimmia.
26. Antilope pygmaea.
27. Antilope fylvatica.
28. Antilope Strepficeros.
29. Antilope Cervicapra.
xxxviii $\quad C A P R A$.

1. Capra Aegagrus.
2. Capra Hircus.
3. Capra angorenfis.
4. Capra mambrica.
5. Capra depreffa.
6. Capra reverfa.
7. Capra nana.
8. Capra Capricornis.
9. Capra mutica.
10. Capra Ibex.
11. Capra caucafica.
xxxix OVIS.
1.. Ovis Aries.
a. O. Aries anglica.
B. O. Aries nana.
\%. O. Aries rultica.
万. O. Aries hifpanica.
\&. O. Aries polycerata.
そ. O. Aries africana.
\% O. Arjes guineenfis.

## 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.

## 0 X.

Common Ox.
A. Wild Ox.
735. Urus.
736. Bonafus.
737. Bifon.
B. Domeftic Ox.
738. European Ox.
739. Indian Ox.
740. Zebu.
741. Surat Ox.
742. Abyflinian Ox .
743. Boury.
744. Tinian Ox.
745. Lant.
746. Arnee.
747. American Bifon.
748. Mufk Ox.
749. Grunting Ox.
750. Ghainouk.
751. Sarlyk.
752. Hornlefs Grunting Ox.
753. Buffalo.
754. Naked Buffulo.
755. Anoa.
756. Guavera.
9. O. Aries laticaudata.

،. O. Aries fteatopyga.
x. O. Aries bucharica.

ג. O. Aries longicaudata.
$\mu$. O. Aries capenfis.
». O. Aries barbata.
乡. O. Aries jubata.
2. Ovis Strepficeros.
3. Ovis Ammon.
B. O. Ammon europaea.
4. Ovis Pudu.
xl
$B \circ S$.

1. Bos Taurus.
A. B. Taurus ferus.
$\alpha$. B. Taurus Urus.
в. B. Taurus Bonafus.
\%. B. Taurus Bifon.
B. B. Taurus domefticus.

万. B. Taurus europaeus.
\&. B. Taurus indicus major,
૬. B. Taurus indicus minor.
n. B. Taurus indicus minimus.
9. B. Taurus abeffinicus.

، B. Taurus madagafcarenfis.
*. B. Taurus tinianenfis.
д. B. Taurus africanus.
2. Bos Arnee.
3. Bos americanus.
4. Bos mofchatus.
5. Bos gruniens.
B. B. gruniens Ghainouk.
\%. B. gruniens Sarlyk.
ס. B. gruniens ecornis.
6. Bus Bubalus.
B. B. Bubalus feminudus.
\% B. Bubalus Anoa.
©. B. Bubalus Guavera.

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of THE M A M M A L I A.
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757. Cape Ox.
758. Baas.
759. Dwarf Ox.
760. Bos caffer.
761. Bos barbatus.
762. Bos pumilus.

## VI. B ELL L

HORSE.
Common Horfe.
760. Wild Horfe.
761. Domeftic Horfe.
762. Dfhikketai. Afs.
$7{ }^{6} 3$. Onager.
764. Domeftic Afs.
765. Mule.
766. Bardeau.
767. Zebra.
768. Hybrid Zebra.
769. Quacha.
770. Chilefe Horfe.

HIPPOPOTAMUS.
771. Amphibious Hippopotamus.
TAPIR.
772. American Tapir.

$$
\mathrm{HO} \mathrm{O} .
$$

Common Hog.
773. Wild Hog.
774. Domeftic Hog.
775. Single-hoofed Hog.
776. Chinefe Hog.
777. Guinea Hog.
778. Siam Hog.
779. Pecary.
780. Leffer Pecary.

78 1. Patira.
782. African Hog.
783. Engallo.
784. Babyrouffa.
sli $E 2 U U S$.

1. Equus Caballus. a. E. Caballus ferus. ß. E. Caballus domelticus.
2. Equus Hemionus.
3. Equus Afinus.
«. E. Afinus ferus.
B. E. Alinus domefticus.
r. E. Afinus Mulus.

ס. E. Afinus Hinnus.
4. Equus Zebra. в. E. Zebra hybridus.
5. Equus Quagga.
6. Equus bifulcus.
xlii HIPPOPOTAMUS.

1. Hippopotamus amphibius.
xliii

$$
\mathcal{T} A P I R .
$$

1. Tapir Americanus.
xliv $S U S$.
2. Sus Scrofa.
«. S. Scrofa ferus.
G. S. Scrofa domefticus.
\%. S. Scrofa domefticus unifulcu\&。
ס. S. Scrofa domefticus finenfis.
3. Sus Porcus.
\&. S. Porcus fiamenfs.
4. Sus Tajaffu.
f. S. Tajaffu minor.
\%. S. Tajaffu Patira.
5. Sus africanus.
6. Sus aethiopicus.
7. Sus Babyruffa.

## CATALOGUE, \&C:

## VII. C E T E.

NARVAL.
785. Horned Narval.

W H A L E.
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-nofed. Cachalot.
800. Straight-toothed Sharp.nofed. Cachalot.
801. High.finzed Cachalot.

D OLPHIN.
802. Porpoife.
803. White Porpoife.
804. Brown Porpoife.
805. True Dolphin.
806. Grampus.
807. Sworí Grampus.
808. Beluga,
xlv
MONODON.
I. Monodon monoceros.
xlvi $\quad B A L E N A$.

1. Balaena Myfticetus.
a. B. Myfticetus groenlandica.
B. B. Mytticetus iflandica.
\%. B. Myfticetus major.
2. Balaena Phyfalis.
3. Balaena Boops.
4. Balaena gibbofa.
a. B. gibbofa gibbo unico.
B. B. gibbofa gibbis fex.
5. Balaena Mufculus.
6. Balaena roftrata.
xlvii
PHYSETER.
7. Phyfeter Catodon.
8. Phyfeter macrocephalus.
a. Phyfeter macroceph. niger.

及. Phyfeter macroceph. albicans.
\%. Phyfeter macroceph. cinereus.
3. Phyfeter microps.

Phyfeter microps falcidentatus.
B. Phyfeter microps rectidentatus.
4. Phyfeter Turfio.
4. Delphinus leucas.

## C L A S S I.

## M A M M A L I A 米.

The rivers with their dry banks, and the retiring mountains, refound with the bleating of flocks, and the frequent lowing of the berds.-Virgil.

THE Mammalia are fuch animals as nourifh their young by means of lactiferous teats or paps. In their ftructure, both external and internal, and in their various organs, they refemble man. They are for the moft part quadrupeds, or having four legs and feet; and, along with us, they inhabit the furface of the earth, environed with cruel enemies : The largeft in fize, though by far the fnalleft in number, being furnifhed with fins, inhabit the ocean.

The clothing of quadrupeds is compofed of foft, feparate, flexible hair, little fubject to injury, which is more plentifully beftowed on the inhabitants of cold regions than on thofe which live in the warmer parts of the earth. This hair coalefces together, on Urchins and Porcupines, to form fpines or prickles; on the Manis thefe are flattened into fharp pointed feales; and they are united into a fhelly coat on the Armadillo: The fur is often divided by diftinct ridges, as in the Dog and Horfe; and thofe ridges, on the Horfe and Hog, are fometimes elongated into a mane. In aquatic quadrupeds the hair is altogether wanting, left it fhould abforb the wet; except in fuch as are fometimes obliged to live on thore. The face of animals is frequently furnifhed with briftly warts; the

* The term Mammalia, here ufed, fignifies fuch animals as feed their joung by milk derived from proper glands fituated on the mother, and furnifhed with teats or paps. There is no fingle Englih word by which this can be tranflated; Quadrupeds would exclude the Cetaceous order, which, from giving milk, are arranged by Linnæus in this clafs.-T.

Vol. I.
E
the lips with whifkers; the chin, as in Man, Apes, and Goats, with a beard; and the legs and breaft, as in the Horfe and Camel, are often provided with callofities.

The fulcra, fupporters, or inftruments of motion, are intended for more expeditioufly efcaping from enemies by flight, or for purfuing after prey. Terreftrial animals, of this clafs, are furnifhed with four legs and feet; of thefe the anterior pair, or fore legs, have fometimes a hand divided into fingers, with a diftant oppofed thumb, as in the Primates and Oppoffums: The hinder feet are more united, that they might ferve bet= ter for fupporting the weight of the body; thefe are either palmated or webbed, having the toes joined together by an interpofed membrare, for the purpofes of fwimming; or fiffile, having the toes feparated, for running quickly; or fupp rted by heels, as in Man and the Bear, for ftanding firmly: Befides thefe, that the toes, during flight, 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 fhoe, as in the orders of Pecora and Belluae; in fome of which animals the heel is included in this manner inftead 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 dig. ging the ground; in moft of thefe the claws are pointed and crooked; a fmall number of lefs ferocious animals have the claws flattened, and of an oval fhape, while the rapacious order of Ferae, or beafts of prey, have bent fharp pointed talons: The flying animals of this clafs either mount into the air by the affifance of palmated fore feet, having the toes much elongated, and connected by an interpofed membrane, as in Bats; or they float in the air by means of a membrane ftretched out between the fore and hinder legs, as in the flying Macauco and failing Squirrel: Aquatic animals are deftitute of claws and hoofs, having, inftead of feet, pectoral fins, which are formed by the fhoulder blade, arm, fore arm, wrift, hand, and fingers, all jumbled together, as in the order Cete.

The offenfive arms of the animals of this clafs, befides 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: Thefe are either folid and perfiftant, as in the Rhinoceros; or folid and annually deciduous, being, while growing, which they do from their outer ends, covered with a hairy fkin which falls off when they are full grown, as in Deer; or, as in the Ox, Goats, and Sheep, they are hollow and perfiftant, covering a central cavernous boney flint, and growing by addi. :ions at their bafez; with thefe weapons animals attack, gore, and ftrike their adver. faries.
faries. They thus are enabled in various ways to elude or refilt the force of enemies, by fighting, biting, tearing, kicking, friking, running, leaping, climbing, and digging; or by fwimming, flying, urining, ftinking, roaring, and terrifying.

The inftruments for maftication of food are the teeth, which are of three kinds: The fore teeth, which are fometimes in the form of compreffed wedges, and called incifors; thefe ferve for plucking, gnawing, and cutting the food: The tufks are longer than the other teeth, their form is conical and pointed, and they have no oppofites which direetly meet them on clofing the mouth ; their ufe is for tearing the food: The grinders, or back teeth, are of a broad form for chewing the food; thefe, in animals which live on vegetables, are obtufe, and in carnivorous animals are furnifhed with fharp conically pointed protuberances on their upper furfaces. The Ant eaters and Manis alone, of all the clafs, have no teeth.

The tails of animals are compofed of an elongation and multiplication of the latter vertebrae of the back, and ferve for concealing the unclean parts: In a few animals, as in Man, fome of the Apes, and a few of the Murine tribe, this is wanting; in fome it is flort, in which cafe it is only the length of the thigh, or horter, as in the Hare, Satyr, Mole, and Urchin; in others it is long, being at leaft the length of the leg down to the feet, as in Dogs, Mice, and others; it is fometimes naked, as in Mice; or prehenfile, that is, capable of lapping round an object and ferving the purpofe of a fifth hand, as in fome fpecies of the Ape, Porcupine, and Opoffum ; fometimes it is covered with flowing hair, as in the Horfe and Ox; fometimes tufted, the extremity being fhaped like a brufh, as in the Sea Lion and Jerboa; or, laftly, it is fled laterally, both fides being hairy, as in the Squirrel and Ant-eater.

The fenfes 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 fharp, or divided; and are erect, or pendulous :-The pupils of the eyes are either round, for ufing during the day ; or contracted into a line, which is either tranfverfe or vertical, for nocturnal ufe; in fome there is a membrana nictitans, to preferve the eyes from the glare of light without fhuting the eye-lids; all have moveable eye-brows; in man and apes both eye.lids are moveable, but in moft of the reft the upper eye-lid only is capable of being moved:-The nofe is either compreffed, flattened, crooked upwards, or bifid; or, it may be fhorter than the lips, as in Apes; a little longer, as in moft of the order of Ferae; or it is elongated into a probolcis, or flexible cartilaginous trunk, as in the Elephant ; the noftrils are either oval or rounded:-The
tongue in moft animals is fimple; in fome fringed with jags at the edges, as in the Dog; befet with papillae on its upper furface, as in the Feline tribe ; or long and flender, as in the Manis and Ant-eater ; it is fometimes bifid, as in Seals:-The upper lip in moft has a furrow in the middle running downward from the nofe; in a few, as in the order of Glires, it is bifid, or divided.

An attentive inveftigation of the genital organs might offend, though from the various ftructures of the clytoris, nymphae, fcrotum, and penis, confiderable fervice might be derived in forming a natural arrangement of animals. For the moft part animals of this clafs ufe tranfient venery, when the males fight together for the enjoyment of the females, and the ftronger prevail, as beft fitted for the procreation of 'a more lively offspring: The impregnated females bring forth their young alive, and fully formed, the foetus being excluded from the egg within their own bodies; when dropped, they fuckle 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 fometimes even to a more advanced age:-Sōme animals are polygamous, as Seals, the male preferving to himfelf, by force, a feraglio of females which he has affociated with him :-A very fmall number, as fome Apes, the Macauco, the Bat, and Urchin, pair together ; a fingle male and female entering into a monogamious fociety, and rearing their young ones by a joint concern.

The mammae, or lactiferous dugs of the female animals of this clafs, are always in pairs, and in a determinate number for each fpecies; and, except the Horfe genus, the males have always the rudiments of thefe organs, fimilar in number and arrangement with thofe of the females of the fame fpecies:-Thefe are either pectoral, being placed on the breaft, as in the orders Primates and Cete;-or they are abdominal, that is, fituated on the belly, as in Oppoffums and Seals;-or inguinal, which are placed in the groin, as in the orders Pecora and Belluae;-or both pectoral and abdominal at the fame time, as in moft animals of the order Glires;-fome animals, as the Hog and others, have them arranged longitudinally;-and, laftly, there are generally two teats on the mother for each young one produced in ordinary births.

The ufes of the animals of this clafs to man are various:-The order of Pecora are bred for fupplying flefh, milk, cheefe, butter, leather, tallow, and for their fleeces; the Horfe, Ox, Camel, and Elephant, are employed for draught and for carrying loads; feveral animals of the order of Ferae are ufed for hunting or deftroying other animals that are troublefome or noxious, fuch as Mice and Serpents:-The rarer ani-
mals are preferved, for curiofity and obfervance of their manners, in vivaria or mena. geries.

The authors to be confulted refpecting this clafs of animals are Gefner, Aldrovandus, and Jonfton, of the laft age ; and, in the prefent century, Ray, Briffon, Houttuyn, Buffon, Pennant, Pallas, Schreber, Klein, Cetti, Ersleben, Blumenbach, Camper, and Storr. The fcience is to be treated of properly by giving a defcription of each animal in its form, diet, economy, and manners, that from fuch hiftory the intention of the Creator in forming them may be difcovered; examples of fuch defcriptions of the common Dog, Rhein Deer, Guinea Pig, or reftlefs Cavy, common Hog, and domeftic: Sheep, may be found in the Amocnitates Academicae.

The Ordinal Characters of the Animals of this Clafs may, in the firf place, be chofen from particulars refpecting the Teeth ; -thus,


## C H A R.A C TERS

OFTHE

$O R D E R S O F M A M A L A$ MA.

## 1. PRIMATES.

Their fore teeth are incifive wedges, of which there are four, parailel to each other, in the upper jaw ; except in fome fpecies of Bats, which have either two only, or none: They have one tufk on each fide in both jaws.-The females have two pectoral milk teats.-The two fore feet refemble hands, having fingers, for the moft part, furnifhed with flattened oval nails.-They live moftly on fruits and feeds, a few only ufing animal food.

## II. BRUTA.

Thefe have no fore teeth in either jaw.-Their feet are fortified with ftrong, blunt, hoof.like nails.-They are of a clumfy make, and are flow in their motions.-They, mofly, live on vegetables, which they only bruife in maftication.

## III. FER 正.

Their fore teeth are conically pointed, and of thefe moft have fix in each jaw: They all have tulks, longer than the other teeth: Their grinders are furnifhed with conical projections. Their feet are divided into toes, which are armed with fharp hooked claws.-They live on animal food, either devouring dead carcaffes, or preying on other animals.

## IV. GLIRES.

Have two incifive fure teeth in each jaw, and no tufks. -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.

Thefe have feveral blunt, wedge like, incifive 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 fomachs: 1 ft , The Rumen or Paunch, in which the food is macerated for fome time, to be afterwards brought up to the mouth and chewed more fully; this action is called ruminating: 2 d , The Reticulum, Bonnet, or Kingfhood, of a cellular texture, receives the food after rumination: 3d, The Omaflus, or Manyplies, compofed on its inner furface of numerous folds, digefts the food: $4^{\text {th }}$, The Abomafus, Caille, or Red, divided into bundles, gives acefcency to the food, to prevent putrefaction.

## VI. BELLU

Have obtufely truncated fore teeth.-Their feet are armed with hoofs.-Their motions are flow and heavy.-They live on vegetable food, from which their digeftive organs draw a tincture without diffolution.

## VII. CETE**

Inftead of feet, the animals of this order are provided with pectoral fins and a horizontally flattened tail fit for fwimming.-They have no claws or hair.-The teeth, in fome fpecies, are cartilaginous, and boney in others.-Inftead of noftrils, they have a filtulous opening on the anterior and upper part of the head.-They live entirely in the fea, feeding on fea-blubbers and fifh.

## CHARACTERS.

* This order, though nearly allied in manners and form to fifhes, is neceffarily ranked with the clafs of Mammalia from fimilarity in fructure.-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 impreffions of found from the motions of the air:-They have feven vertebrae of the neck, lumbar bones, and a coccyx:-They procreate with an intrant penis:-And, laflys, the female fuckles her young with milk by means of teats.


## C HARACTERS

## OFTHE

## GENERAOFMAMMALIA.

## I. PRIMATES.

1. MAN. 1. HOMO. 1. Walks erect. The female menfruates, and has a hymen.
2. Ape. 2. Simia. 2. Have tufks, diftant from the other teeth.

| * Apes. | Simine. | No tails. |
| :---: | :---: | :---: |
| ** Baboons. | Papiones. | Short.tails. |
| *** Monkeys. | Cercopitheci. | Long, not prehenfile, tails, cheek-pouches, and naked buttocks. |
| ** Sapajous. | Sapaji. | Long prehenfile tails, no cheek-pouches, the buttocks clothed. |
| ***** Sagoins. | Sagoini. | Long, not prehenfile, tails, no cheek-pouches, the buttocks clothed. |

3. Macauco. 3. Lemur. 3. Have fix fore teeth in the lower jaw.
4. Bat. 4. Vefpertilio. 4. Their fore feet are palmated, for the purpofes of flying.
A. Four fore teeth in each jaw.
B. Four fore teeth above, fix below.
C. Four fore teeth abore, 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.

Note - The figures preceding the Latin names exprefs the order of the Genera, as arranged by Dr Gmelin; thole which follow the Latin names are prefixed in his edition, apparently to mark the order followed by Linnous in the former edition; fuch as have no numeral after the Latin names are new Genera adopted by Dr Gmelin. The figures which precede the Englifh names fhow the order obe ferved in this edition.-T.
II. BRUTA.
5. Sloth. 5. Bradypus. 7.

Have no fore teeth or tufks; the anterior grinders are longer than the reft. The body is hairy.
6. Ant-eater. 6. Myrmecopbaga. 8. Have no teeth. The body is hairy.
7. Manis.
8. Armadillo.
8. Dafypus. 10.
9. Rhinoceros. 9. Rbinoceros 36.
10. Sukotyro.
11. Elephant
10. Elepbas. 5.

Have no teeth. The body is covered with fcales.
Have grinders, but no tufks or fore teeth. The body is covered with a cruftaceous fhell.
Has a horn on the middle of the fore-head. Has horns on each fide below the eyes.
Has tufks and grinders, but no fore teeth. The fnout is elongated into a flexible trunk.
12. Walrus. 1 . Tricbecbus. 6.
III. FER
13. Seal.
14. Dog.
12. Pboca. 11.
13. Canis. 12.
14. Felis. 13.
15. Cat.

* With long tails, and plain cars.
** With flort tails, and pencilled ears. Lynxes.

16. Fitchet.
17. Weafel.

- Otters.
** Weafels.

18. Bear.
19. Urfus. 16.

VoL. Io. .
Lutrae.
Mufelae.
15. Viverra. 14.
16. Mufela. 15 .
Lutrae.
,

Six fore teeth in each jaw ; the upper ones hollowed. The penis contains a crooked: bone.
19. Opoflum.
20. Mole.
21. Shrew.
22. Urchin.

## IV. GLIRES.

23. Porcupine.
24. Cavy.
25. Beaver.
26. Cafor. 23.
27. Murine quadrupeds. 25. Mus. 24.

> * Beaver-rats.
** Rats and Mice.
*** Hamfers.
*** Mole-rats.
27. Marmot.
28. Squirrel.
18. Didelphis. 17. 19. Talpa. 18.
20. Sorex. 19.
21. Erinaceus. 20.

Ten fore teeth above, eight below.
Six fore teeth above, eight below.
Two fore teeth above, four below.
Two fore teeth in each jaw. The body is befet with prickles.

The body is covered with long fpines.
The fore teeth are wedge like; four grinders on each fide. No collar bones.
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 coilar 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 fhort 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, fharp pointed, below; five grinders above, and four below, on each fide. Have collar bones: Hair on the tail fhed fide ways: Long whilkers.

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

| 30. Jerboa. | 29. Dypus. |
| :--- | :--- |
| 31. Hare. | 30. Lepus. 22. |
| 32. Afhkoko. | 31. Hyrax. |

## V. PECORA.

33. Camel.
34. Camelus. 27.
35. Mufko
36. Deer.
37. Camelopard. 35. Giraffa.
38. Antilope. 36. Antilope.
39. Goat.
40. Sheep.
41. Bull.
42. Capra. 30.
43. Ovis. 3 1.
44. Bos. 32.
VI. BELLU压.
45. Horfe.
46. Hippopotamus.
47. Tapir.
48. Hog.
49. Equus. 33.
50. Hippopotanus. 34.
51. Tapir.
52. Sus. 35 .

## ViI. C E TE.

45. Narval.
46. Whale.
47. Cachalot.
48. Dolphin.
49. Monodon. 37.
50. Balaena. 38.
51. Phyfeter. 39.
52. Delphinus. 40.

Have very fhort fore, and very long hind legs.
The upper fore teeth double.
Have broad upper fore teeth. No tail.

Hornlefs. Has feveral tuks on each fide of each jaw.
Hornlefs. Solitary tufks; thofe in the upper jaw project from the mouth.
Has folid, branchy, deciduous horns. No tufks in either jaw.
Very fhort horns. The fore legs are much longer than thofe behind.
Has folid, fimple, perfiftent horns. No tufks in either jaw.
Has hollow, erect horns. No tufks.
Has hollow reclined horns. No tufks.
Has hollow extended horns. No tulks,

Has fix fore teeth in each jaw.
Has four fore teeth in each jaw. Has ten fore teeth in each jaw.
Has four fore teeth in the upper, and fix in the lower jaw.

Has two extended boney teeth in the upper jaw.
Has horny teeth in the upper jaw. Has boney teeth in the lower jaw only. Has boney teeth in both jaws.

## I. PRIM ATES*.

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

## They have two paps fituated on the breaft.

$$
\text { 1. MAN. }-H O M O \text {. }
$$

## Know thy felf $\dagger$.

Sapient Man.-1.-H. Sapiens.
Man feems a native of the countries within the Tropics, and dates were probably his original food. He has, however, become accuftomed to the lels genial climes without the Torrid Zone, and now fupports his exiftence by means of agriculture, adding ani* mal food to that intended him by Nature.

This is the only fpecies; he is endowed with wifdom far fuperior to, or rather in exclufion of, all other animals. He varies from climate, education, and habits. Lin. næus enumerates the following varieties.
Wild Men.-a.-H. Feri.

Walk on all fours, are dumb, and covered with hair $\ddagger$.
r. A youth found in Lithuania, in 1761, refembling a bear,
2. A gouth found in Heffe, in 1544, refembling a wolf.

[^4]3. A youth in Ireland refembling a theep. Tulp. Obf. 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 Overyfel.
8. A wild girl found, in 1731 , in Champagne.
9. A wild lad found near Leyden. Boerbaave.
$$
\text { American.- }-H . \text { Americani. }
$$

Of copper coloured complexion, choleric conftitution, and remarkably erect.
Their hair is black, lank, and coarfe; their noftrils are wide; their features harfh, and the chin is fcantily fupplied with beard. Are obftinate in their tempers, free, and fatisfied with their condition; and are regulated in all their proceedings by traditional cuftoms.-Paint their fkin with red ftreaks.
Europeans.-r.-HI. Europaei.

Of fair complexion, fanguine temperament, and brawny form.
The hair is flowing, and of various thades of brown; the eyes are moftly blue.-Of gentle manners, acute in judgment, of quick invention, and governed by fixed laws.-Drefs in clofe veftments.

$$
\text { Afiatic. }- \text { s.-H. Afatici. }
$$

Of footy complexion, melancholic temperament, and rigid fibre.
The hair is ftrong, black, and lank; the eyes dark brown.-Of grave, haughty, and covetous manners. Governed by opinions.-Drefs in loofe garments.

$$
\text { African.- }- \text {. } H . \text { Afrì. }
$$

Of black complexion, phlegmatic temperament, and relaxed fibre.
The hair is black and frizly; the flkin foft and fliky; the nofe is flat; the lips thick; and the female has a natural apron *, and long lax breafts.-Of crafty, indolent, and carelefs difpofitions, and are governed in their actions by caprice.-Anoint the $1 k i n$ with greafe.

## Monfters.-.$-H$. Monftrofi.

Of thefe there are feveral varieties; the firft and fecond of which, in the following lift, are occafioned by peculiarity of climate, while the reft are produced by artificial management.

This circumfance is rather doubtful,

1. Alpini. The inhabitants of the northern mountains; thefe are fmall in ftature, active, and timid in their difpofitions.
2. Patagonici. The Patagonians of South America; of vaft fize, and indolent in their manners.
3. Monorchides. The Hottentots; having one tefticle extirpated.
4. Imberbes. Moft of the American nations; whoeradicate their beards, and the hair from every part of the body except the fcalp.
5. Macrocepbali. The Chinefe; 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 compreffion.

The following arrangement, of the varieties in the human fpecies, 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 divifion includes almoft all the inhabitants of Europe; thofe of Afia on this fide of the Oby, the Cafpian, Mount Imaus, and the Ganges; likewife the natives of the north of Africa, of Greenland, and the Efquimeaux.

> Brown.-b.-H. Badius.

Of a yellowifh brown colour; has fcanty hairs, flat features, and fimall eyes.-This variety takes in the whole inhabitants of Afia not included in the preceding divifion.
Black.-c.-H. Niger.

Of black complexion ; has frizly hair, a flat nofe, and thick lips. - The whole inhabitants of Afrio ca, excepting thofe of its more northern parts.

> Copper coloured.-d.-H. Cupreus.

The complexion of the fikin refembles the colour of copper not burnifhed. The whole inhabitants of America, except the Greenlanders and Efquimeaux.
Tawny.-e.-H. Fufcus.

Chiefly of a dark blackifh brown colour, having a broad nofe, and harih coarfe ftreight hair.The inhabitants of the fouthern iflands; and of moft of the Indian illands.

## DESCRIPTION OF MAN.

The body, which feldom reaches fix feet in height, is erect, and almoit naked, having only fome fcattered diffant hairs, except in fome fmall fpots of the body, to be afterwards noticed, and when firft born is entirely naked. The head is thaped like an egs ; the fcalp being long, and covered with hair ; the forehead broad ; the top of the head flat; and the hind head profuberant. The face is nalsed. having the brow, or forchead, flattened and quadrangular; the temples are compreffed, with peaked angles pointiag upwards and backwards towards the hairy fcalp. The eye brows are prominent, and covered with hairs which, fhedding outwards, cover each other like tiles; and, between the inner extremities of the two eye brows, there is a fmooth, fhallow furrow, or depreffion, in a line with the nofe. The upper eye lid is moveable, but the lower o:le hardly moves, and both are planted, at their edges, with a row of fiff recurved hairs, named eye-lafhes. The eye-balls are round, having no fufpending mulcle as in thofe of mof quadrupeds; the pupil, or opening of the fight, is circular ; and the eye has no membrana nictitans *. The upper parts of the cheeks are prominent, foftifl, and co. loured with a red blufh; their outer parto flattened ; the lower parts are hollowed, lax, and expanfile. The nofe is prominent and compreffed at the fides ; its extremity or point is higher than the ref, and blunt ; the noftrils are oval, open downwards, with thickened edges, and are hairy on their infides. The upper lip is almoft perpendicular, and is furrowed on the middle, from the divifion between the noftrils 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 fiff appears, a out puberty, in patches on the chin. The teeth in both jaws may be diftinguifhed into three orders; the fore teeth are erect, parallel, and wedge like, of the kind named incijors, or cutting tectl; they tand clole to each other, and are more equal and rounder than in other animals; the tufks, called, in man, cye teetl/ and corner tceth, 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 lefs fo than in other animals, and they are placed clofe 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 thefe are not fo remarkable as in other animals. The ears are placel on the fides of the head, are of an oblong rounded figure, with a femilunar bend on their

* This membrane is a half tranfparent fereen, ferving the purpofe of eye-lids in fome degree; fome: times along with eye lids, and fometimes without them. It will be afterwards defcribed.-T.
their-anterior edges; they lie flat to the head, are naked, arched at the margin on their upper and pofferior edges, and are thicker and foft at the under extremities.

The trunk of the body confifts of the neck, breaft, back, and belly. The neck is roundifh, and fhorter than the head; its vertebrae, or chine bones, are not, as in moft animals, connected by a fuipenfory ligament; the nape is hollowed; the throat, im. mediately below the chin, is hollowed at its upper part, and protuberant in the middle a little lower down. The breaft is fomewhat flattened both before and behind; on the fore patt there is a cavity or depreffion where it joins with the neck; the arm-pits are hollow and hairy; the pit of the ftomach is flat: On the breaft are two diftant, round, protuberanc mammae, or dugs, each having a cylindrical obtufe 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 fhoulder blades, with a furrow or depref. fion between them. The abdomen or belly is large and protuberant, with a hollow at the navel; the epigaftric region, or fituation of the ftomach, is flat; the hypogaftric regions, or fides of the belly, are protuberant ; the groins flattifh and hollowed. The pubis is hairy; the pelvis, or bafon, is wider above, and grows narrower below; the male parts are external and loofe; the penis cylindrical; the fcrotum roundifh, lax, and wrinkled, being divided in the middle by a longitudinal ridge or fmooth line, which extends along the whole perinaeum: The female parts are compreffed 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, inftead of fore legs, and of thighs, legs, and feet. The arms are placed at a diftance from each other; they are round, and about a foot in length, from the joint of the floulder to the elbow; the forearm, or cubit, contains two bones, and is obtufely prominent; the ulna, which forms the principal thick efs of the member, is round, and fomewhat flattened on the infide. The hands are broad, flat, and rounded; convex on the out fide, or back of the hand, and concave on the infide, or palm. Each hand has five fingers, one of which, named the thunb, is fhorter and thicker than the reft, and is placed at fome diftance from them; the others are near each other, and placed parallel, the outer or little finger being the finailef; the fecond, named inden, or fore finger, and the fourth, called the ring finger, are next in lengld and in fize; and the third, or middle finger, is the longeft; the point of this laft, when the arm and hand hang down, reaches to the middle of the thigh. The nails are rounded and oval, being flatly arched, or convex upwards, and each has. a femilunar whitifh inark at the root or lower extremity.

The lower limbs are placed clofe together, having brawny mufcular haunches, and fwelling flefhy hips; the knees are obtufe, bend forwards, and have hollow hams bchind. The legs, which are nearly of the fame length with the thighs, are of a mufcular make behind, where they fwell out into what is called the calf; they are lean, and free of flefh on the fhins, or fore parts, and taper downwards to the ancles, which have hard hemifpherical projections on each fide, 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 fupport to the body; it joins immediately with the fole of the foot. The feet are oblong, convex above, and flattened on the foles, which have a tranfverfe hollow about the middle. Each foot has five toes, fomewhat bent downwards, and gibbous, or fwelled, underneath at their extremities; they are all placed clofe together, the inner, or great toe, being thicker, and fomewhat fhorter, than the reft ; the fecond and third are nearly of equal length; and the fourth and fifth are florter than the others, the laft mentioned, or little toe, being the fhorteft and fmalleft. 'The toe nails refemble thofe on the fingers, which are already defcribed.

Thus man differs from the other animals in his erect poiture and naked fkin, having a hairy fcalp, being furnilhed with hair on the eye-brows and eye-lafhes, and having; when arrived at puberty, the pubis, breaft, arm•pits, and the chin of the males, covered with hair. His brain is larger than that of any other animal, even the moft enormous; he is provided with an uvula, and has organs of fpeech. His face is placed in the fame parallel line with his body; he has a projecting compreffed nofe, and a prominent chir. His feet, in walking, reft on the heel. He has no tail ; and, laftly, the fpecies is diflinguifhed, from other animals, by fome peculiarities of the female conflitution, which have been already mentioned.

## OBSERVATIONS ONMAN*.

## § 1. Physiologically.-Tecun Jabita!

Man is a frail machine, chiefly compofed of nerves and fibres interwoven with ench other. IIis moft perfect flate is during youth; and he is endowed with faculties more numerous

* In the original thefe are contained in a note, but are here thrown into the text for greater conve. nience. $-T$.

YOL, I,
numerous, and in higher perfection, than thofe of all other animals. "Man, intended " for exercifing dominion over the whole animal creation, is fent, by Nature, into the " world naked, forlorn, and bewailing his lot; he is then unable to ufe his hands or " feet, and is incapable of acquiring any kind of knowledge without inttruction; he " can neither fpeak, nor walk, nor eat, nor do any action whatever by natural inflinct." Pliny.-" We may judge what kind of life is allotted to us by Nature, fince it is or"dained, as an omen, that we fhould come weeping into the world." Seneca.-" It " is humiliating to the pride of man, to confider the pitiable origin of this moft arro. " gant of all the animals." Pliny.

## §2. Dibtetically.-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 deftroyed by abfinence, injured by variety of delicacies, weakened by unufual things, and frengthened by the ufe of proper and accuftomed fare. Man, learned in the pernicious art of cookery, is fond of many difhes, rendered palatable by the injurious effects of fire, and by the baneful addition of wine. "Hunger is fatified " with a fmall quantity of food, luxury demands overabundance. Imagination requires " vaft fupplies, while Nature is contented with a moderate quantity of ordinary food, "" and is burthened by fuperfluity." Seneca.-According as thou liveft, fo fhall thy life be enjoyed.

## §3. Pathclogically.-Memento mori!

The life of man refembles a bubble ready to burft ; his fate is fufpended by a hair, and is dependent on the uncertain lapfe of time. "The earth contains nothing more" frail than man." Homer.-" Nothing is weaker than human life: To what dangers, " and to how many difeafes, is it not expofed? Hence the whole period of a man's " ife is but a fpan: Half of it is neceffarily fpent in a ftate refembling death; without " including the years of infancy, wherein there is no judgment, or the period of old " 2 e, fertile in fufierings, during which the fenfes are blunted, the limbs become itiff, " and the faculties of fight and hearing, the powers of walking, and the teeth, the in" firuments of nourihment, fail before the reft of the body. Pliny. -" Thus a confi"s derable part of death is fuffered during life; and death poffeffes all that belonged to ss the times which are paft. Finatly, Nature will fpeedily recal and deftroy all the be-
" ings which thou feeft, and all that thy imagination can fuppofe to exilt hereafter; "for death calls equally upon all, whether they be good, or whether they be evil." Seneca, ii. 59.

## §4. Naturaliy.-Innocuo vivite, Numen adeft!

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, lpeaking ; tractable, judicious, inquifitive, and moft wife; he is weak and naked, unprovided with natural weapons, expofed to all the injuries of fortune, needful of affiftance from others, of an anxious mind, folicitous of protection, continually complaining, changeable in temper, obftinate in hope, and flow in the acquifition of wifdom. He defpifes the time which is paft, abufes that which is prefent, and fets his affections on the uncertain future; thus, continually neglecting winged time, which, though infinitely pre* cious, can never be recalled: For thus the beft and readieft time, in every age, flies on with miferable mortals; fome it fummons to attend their daily and burthenfome labours; fome it confines to luxurious inaction, pampered, even to fuffocation, with fuperfluities; fome it folicits in the ever reflefs paths of ambition; fome it renders anxious for the acquifition of wealih, and diftreffes by the poffeffion of the thing de. fired; fome it condemns to folitude, and others to have their doors continually crouded with vifitors; here one bewails the conduct of his children, there one grieves their lofs : Tears will fooner fail us than their caufes, which only oblivion can renove. "On " every hand our evils overbalance our advantages; we are furrounded with dangers; " we rufh forwards into untried fituations; we are enraged without having received " provocation; like wild beafts, we deftroy thofe we do not hate; we wifh for favou. " rable gales, which lead us only to deftruction; the earth yawns wide, ready for ou: " death." Seneca.-" Other animals unite together againft enemies of a kind different " from their own, while man fuffers moft injuries from his own' feecies." Pliny.

## § 5. Politically.-Efio antiqua virtuto et fide!

Man, inftead of foliowing that which is right, is fubjected to the guidance of manio. feft error; this envelops all his faculties, under the thick veil of cuftom, as foon as he is born; according to its dictates he is fed, educated, brought up, and directed, in all things; and by irs arbitrary rules his honefty, fortitude, wifdom, morality, and religion, are judged of; thus, governed by opinion, he lives conformably to cuftom, iilo
ftead of being guided by reafon. Though fent into the world a perifhable being, for all are evidently born to fuffer, inftead of endeavouring to fecure thofe things which are moft advantageous and truly beneficial, he, infatuated by the fmiles of fortune, anxiounly collects her gawdy trifles for future enjoyment, and neglects her real benefits; he is driven to madnefs by envious inarlers; he perfecutes with hatred the truly religious for differing from himfelf in fpeculative opinions; he excites numberlefs broils, not that he may do good, but for a purpofe that even himfelf is ignorant of. He waftes his precious and irrecoverable time in trifles; he thinks lightly of immortal and eternal concerns, while regulating the fucceffion of his pofterity; and, perpetually entering on new projects, forgetful of his real condition, he builds palaces inftead of preparing his grave; till at length, in the midft of his fchemes, Dearh feizes him, and then, firft opening his eyes, he perceives, O Man! that all is delufion. "Thus we live as ${ }^{66}$ if immortal, and firft learn in death that we have to die." Seneca.

## §6. Morally.-Benefac et laetare!

Man is compofed of an animated medullary fubftance, which prompts him to that which is right, and of a bodily frame liable to impreffions, which inftigates him to the enjoyment of pleafure. In his natural flate he is foolifh, wanton, an inconfiderate follower of example, ambitious, profufe, diffatisfied, cunning, peevifh, invidious, malicious, and covetous; by the influence of juft morals he is transformed to be attentive, chafte, confiderate, modeft, temperate, quiet, fincere, mild, beneficent, grateful, and contented. " Sorrow, luxury, ambition, avarice, the defire of life, and anxiety for "t the future, are common to all animals." Pliny.

## §7. Theologically.-Memento Creatoris tui!

Man, the ultimate purpofe of creation, and mafterpiece of the works of Omnipo. tence, was placed on earth that he might contemplate its perfections; he was endowed with fapient reafon, and made capable of forming conclufions from the impreffions of his fenfes, that, from a confideration of created objects, he might know their Creator as the Almighty, the Infinire, the Omnifcient, the Eternal God: That we may live morally under his governing care, it is requifite that we have a thorough conviction of its exiftence, and muft have it ever in remembrance-Other revealed matters on this fubject are left to be explained by the Theologians.
" There are two things which lead to a knowledge of God; Creation and Revela. " tion." Auguftine.-" God, therefore, may be found out by the light of Nature, but " is only to be known by the affiftance of doctrine." Tertullian.-" Man alone has " the ineftimable priviledge of contemplating the perfections of GoD, who is the au" thor both of Nature and of Revelation." Ibid.-" Learn that God has both ordered " you to exift, and that you fhould ftudy to act that part properly which is allotted for " you in life." Perf. Sat. iii. 7 r.

## II. A P E. $-2 . \operatorname{SIMIA.} 2$.

## Has four clofe fet fore-teeth in each jaw; fingle tufks on each fide in both jaws, which are longer than, and fomewhat remote from, the other teeth; and obtufe grinders. The feet are formed like hands.

This genus refembles man in the ftructure of the paps, clitoris, nymphae, uterus, uvula, eye-lafhes, hands, feet, fingers, toes, and nails. It is really wonderful that, with fo much external refemblance to man, efpecially in fome of the fpecies, this ftupid race of animals fhould differ fo widely in the total want of reafon *. Between the Tropics, in India, there are numerous fhady groves of trees, the branches of which, langing downwards to the earth, again take root to form columnar trunks, whofe thick and lofty tops, interlacing each other, overfhadow the earth, and protect it from being burnt up by the torrid influence of an ever vertical fun; under covert of this umbrageous thicket, along with parrots and other birds, the race of apes chiefly inhabits.

This is a fufpicious race of animals, and is endowed with a very retentive memory: They are foreward, fond of imitation, and full of gefticulations; are with difficulty brought to learn any thing; ufe threatening geftures, chatter with their teeth, and feem to laugh: They moftly macerate their food in their cheeks for fome time before they chew and fwallow it; are fond of hunting after fleas in their own fur and that of their neighbours; have a very delicate fenfe of feeling, ufe their arms in fwimming, and void their faeces in a very filthy manner, when terrified. In fome fpecies the females have a difinct urinary paflage. They are libidinous when pregnant: They live moftly on vegetable food: They all fuckle their young; but very few of the fpecies are hitherto either fully known or accurately defcribed.

Apes, and parrots, the apes among birds, are more numerous in their fpecies than any other animals. They are moftly confined to the Torrid Zone, a fingle fpecies only being found beyond that Hine, in Barbary : They are lively, agile, full of frolic, chatter, and grimace; and, from the fructure of their members, have many actions in common with mankind, but no fuperiority over moft other brutes in fagacity. Moft of them are fierce and untameable; yet fome are of a milder nature, and fhew a degree of attachment to thofe who are kind to them; but, in general, they are endowed with mifchievous propenfities. They are filthy, obfcene, lafcivious, and thieving; feed on fruits, leaves, grain, and infects; inhabit the woods, and live in trees; are moftly gregarious, and go together in vaft companies; but the different fpecies always keep apart, and in feparate quarters, never mixing with each other. They leap with vart agility from tree to tree, even when loaded with their young, which cling to them. They are the prey of leopards, and other fpecies of the feline tribe, and of ficpents, which purfue them to the fummits of the trees, and fwallow them entire.

The principal marks by which the fpecies of this genus are diftinguifhable from each other, are lerived, ift, from the tail, which is either long, fhort, or altogether wanting, or is fraight, or prehenfile; 2ily, from the buttocks, which are naked, and furnifhed with callofities, or are coverect with hair; 3 dly, from the mails, which are flat and rounded, like thofe of man, or fharp pointed,


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like the claws of beafts in general; 4thly, from the prefence or abfence of a beard on the chin; and, 5 thly, from the cheeks being provided with, or wanting, pouches in their under parts *. For greater convenience, the fpecies of this genus, which are very numerous, are arranged under five fubordinate divifions, confidered as ditinct genera by fome authors, and not without reafon: Three of thefe fubdivifions were adopted by Linnxus; but Dr Cmelin, following Bufion, has added other two, taken from the third divifion of his great precurfor.

## * APES.—S I M I 无。

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

## 1. Chimpanzee.-1. Simia troglodytes. $34 \dagger$.

Has no tail. The head is conical; the whole body is of a robuft brawny make; tine back and fhoulders are covered with hair, and the reft of the body is naked. Blumenbach, comp. hift. nat. I. 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. $7^{2}$.

Inhabits Angola, and was firft brought to Europe in the year I738, being exhibited as a fhow int London in the month of Auguft that year. What is faid by Linnæus of the bomo troglodytes $\ddagger$ feems partly of fabulous origin, partly to refer to fome monftrous or morbid individual of the human race, and partly to belong to the above fpecies of ape. To the firft fource we muft evidently afcribe what is reported of his faculties of feech, of thought, and of reafon; the fecond fuppofition is clear from. the fynonimous name kakurlacko, which he has cited; and to the third the remainder of the defcrip- . tion, and what is extracted from Bontius, may be referred. What our author has faid of Lucifer, or men with tails, may likewife be confidered as fabulous.

* There is great difficulty in arranging the feveral divifions, fpecies, and varieties, of this genus; indeed, there are frong grounds for fufpecting, that, as in dogs, the feveral fpecies intermix with each other, and produce an almoft endlefs variety, by which great confufion in the opinions and defcriptions of naturalifts have been occafioned, and which would require a much more minute attention to extricate than can ever be given to fo ufelefs a race of animals. Many apparent varieties have likewife been formed by the arts of fhow-men, to impofe on the ignorance and credulity of the curious, which has added to the difficulties of the natural hiforian.-T.
+ The various numerals ufed in this edition to the fpecies and varieties are to be undertood thus: The marginal number on the left hand flews the running number of the fpecies in each clafs of this edition; the number preceding the Englifh name is the running number of the fecies in the genus; that preceding the Latin name fhews the arrangement of the fpecies in Gmelin's edition; and that which follows the Latin ame is the number prefixed by Gmelin from the laft Linnæan edition, or referring to that ar-rangement.-T.
$\ddagger$ This paragraph, which is a note in the edition by Dr Gmelin, refers to the laft Linnæan edition of the Syftema Nature.-T.

Has no tail. Is of a rufty brown colour; the hair on the fore-arms is reverfed, or flands upwards; and the buttocks are covered with hair. Amoen. acad. vir. 68. tab. lxxvi. f. 4. Homo fylveftris, or wild mian of the woods. Edwards, av. v. $\sigma$. tab. 213.-Orang-utang. Camper, kort beright, \&c. Amfterdam 1788. p. 8.

Inhabits the ifland of Borneo.-Is about two feet high, and walks moftly erect. The body and limbs are univerfally covered with brown hair, about an inch long, which is thinly interfperfed with reddifh hairs; the hair on thc fore-arms, towards the wrifts, is reverfed, 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-lafhes are black, the upper being longer and thicker than thofe below; and a range of tranfverfely placed hairs occupies the place of eye-brows: The nofe is very fhort, and is covered with down: The palms of the hands are fimooth, and the thumb is thorter than the palm; the feet refemble thofe of man, except that the great toes are confiderably fhorter than the others, which are very long.

Much as this fpecies refembles mankind, even poffefing the os hyoides, it muft fill be referred to the genus of Ape, with which it agrees in wanting the flat round nail on the great toes, and in the fructure of the larynx; befides thefe circumftances, it is evident, from the direction of the mufcles, and from the whole figure of the akeleton, that this animal is not defigned by nature for an erect pofture.

## B. Pongo.-Simia Satyrus Pongo.

Has no tail, no cheek pouches, and no callofities on the buttocks; walks always erect, and is between five and fix feet high. Sm. Buff. viii. 77.
Homo fylvefris, f. Orang-outang. Bontius, Jav. 84. tab. 84.
Inlabits the inland 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 flefhy. All the teeth are fimilar to thofe of man. The face is flat, naked, and tawny; the ears, hands, feet, breaft, and belly, are ilikewife naked; the hair of the head defcends on both temples in the form of treffes; the iaiar on the back and loins is in fmall 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 fpecies, or variety, arc fubject to periodical difcharges, but analogy renders this aimoft unqueftionable. This animal is, by D: Gmelin, confidered only is a variety of the orang-outang.
\%. Jocko.—Simia Satyrus Focko.

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. tả. 3.-Homo fylveftris, Orang-outang. Tyfon, anat. of a pigmy. ro8. fig. f . and 2.

The one feen by the Count dc Dafion was about two feet and a half high; and, by the information of his proprietor, was only about two ycars old. He walked always crect; his air was melancholy, his gait grave, his movements meafured, and his difpofitions gentle, without any of the mifcbievous tricks, impatience, malicioufnefs, 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 : glafs, which he made to touch that of the perfon who drank along with him; would bring a cup and faucer to the tea table, put in fugar, pour out the tea, and allow it to cool before he drank. He eat almoft of every thing that was offered, but preferred ripe and dried fruits, and fiveet-meats; drank a little wine, but fpontaneoufly left it for milk, tea, or other mild liquors. He was troubled with a teazing cough; lived one fummer in Paris, and died in London the following winter. It is probable that this young animal, if poffeffed of liberty in its native climate, would have acquired, with age, the fame heights and dimenfions which travellers have afcribed to the Pongo, or great Ourang-outang : Of courfe, till better informed, thefe two animals muft be confidered as conftituting but one fpecies.
In Mr Pennant's Synopfis of Quadrupeds, the two laft animals, and the Chimpanzee, are confidered only as one fpecies, of which he gives the following deffription, under the name of great ape. Has a flat face with a deformed refemblance of the human countenance; ears exactly like thofe of man; the hair on the head longer than on the reft of the body; the body and limbs are covered with reddifh fhaggy hair, which is longeft on the back, and thinneft on the forc-parts; the face and paws are fwarthy; the buttorks 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. fub. of nat. hift. tab. xxvii. A. B.-Grand gibbon. Sm. Buff. viii. II3. tab. ccliii.-Long armed ape. Penn. H. of Q. n. 74.-Simia longin. mana. Schreber, i. 66. tab. iii. I.

Inhabits India, particularly Coromandel, Malacca, Sumatra, and the Molucca inlands.-Of a mild and flothful difpofition, impatient of cold and rain; is about four feet liigh, of a black colour with a fwarthy face, and approaches nearer to the manners of mankind than even the Orang-outang, being more inclined to the erect pofture. It is named Golok in India. There are flight callofities on the buttocks. The face is flat, brown, and furrounded with a circle of grey hairs; the canine teeth are proportionally longer than thofe of man; the ears are naked, black, and round ; the eyes are large and funk; the arms are fo enormoufly long, that, when walking erect, he can reach the ground without bending the body. The female has the catamenia. This animal is about three feet high when ftanding erect, but fometimes grows to be as tall as a man; it is of a tranquil difpofition and of gentle manners, receiving mildly what is given to it, and feeding, at leaft in confinement, mofly on bread, fruits, and almonds.

## ß. Leffer Gibbon.-Simia Lar minor.

Refembles the former, but is much lefs, being only about a foot and a half high; the body and face are of a brown colour.
Small gibbon. Sm. Buff. viii. irz. t. ccliv.-Leffer long-armed ape. Penn. H. of Q. n. 74. \%. Miller's plates, xxvii. Schreber, 80. t. iii. f. 2. Lev. muf.

## Inhabits Malacca.

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The body and arms are covered with filvery hairs; the face, ears, crown of the head, and hands, are black. Penn. H. of C. ${ }^{11} .74 . \beta$.

Inhabits the forefts of Devat in the interior parts of Bengal. - This animal refembles the great Gibbon, except in colour, but is more elegantly made ; it is about three feet high when erect, very frolickfome and good natured. Was in the poffefion of the late Lord Clive fome years ago.

## 4. Pigmy.-4. Simia Sylvanus. 2.

Has no tail. The buttocks are naked; the head roundifh; and the arms fhorter than the body.
Simia. Gefn. quad. 847.-Briff. quad. 188.-Cercopithecus. Jonft. quad. t. 59. f. r.-Pi-
 tomy. E. N. C. d. 2. a. 7. obf. $4^{\circ}$ - $^{-}$

Inhabits Africa and Ceylon.-The face is fhort and flat, having a tranfverfe projection at the region of the eye-brows; the fur is harfh, and is reverfed on the neck and fore-arms. It has a deep furrow in the middle of the fcrotum, which hides the penis; the tefticles increafe in fize towards the autumnal feafon; the female fundament is much fwelled. This animal ufes threatening geitures when angry, and chatters when pleafed; falutes paffengers after the manner of the Caffres, and fips its drink from the palm of the hand. The tufks, or canine teeth, are not proportionally larger than thofe of man ; the face is flat; and the nails are flat and rounded like thofe of mankind. It walks erect on two feet, and is about a foot and a half high; of a mild difpofition, and eafily tamed. The female has the menftrual difcharge, according to the ancients, and analogy forbids us to doubt the fact. The ears are like thofe of a man; the body is about the fize of a cat; the general colour is an olive brown on the upper parts of the body, and yellowifin on the lower.

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

ilas 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. I5.f. I. ct tab. 16. - Magot. Sm. Buff. viii. II7. pl. cclv. and cclvi.-Barbary ape. Penn. H. of Q.n. 75. -Simia inus. Schreber, i. 7I. tab. v.

Is found in Tartary, Arabia, Athiopia, 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 muft not, however, be confounded with the Pigmy, or former of thefe fpecies. All the nails are rounded. There is a fmail portion of flin at the rump, which has the appearance of a tail; the cheeks are furnifhed with pouches; the tufls are proportionally longer than thofe of man, and the under part of the fnout is turned up like the muzzle of a bull-dog; the face is downy; the hair on the body is of a greenifh brown colour, and that on the belly of a whitifh yellow. He walks fometimes erect, but oftener on all four ; is from three, to three and a half feet high : The females menftruate, and are fmaller 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 afpect, melancholy, and dirty; chaters and grinds the teeth when irritated, or when hungry;
has prominent callofities on the buttocks. The Count de Buffon thinks that there are feveral varicties of this fpecies, though he has only defcribed one.

## 6. Hog-faced Ape, -Simia Suilla.

Has a blunt truncated nofe, exactly refembling that of a hog. Penn. H. of Q. p. 1/2.; pl. xx. fig. I.
The engraving of this animal, given by Mr Pennant, is from a copy of a drawing in the Britih Mufeum, but along with which there is no account to enable us to trace its hiftory. Mr Pennant fuppofes it may be the 火osgoтi日aros, or Simia porcaria of Ariftotle; as, at any rate, in his opinion, that animal muft be an ape, and not a baboon, according to the Count de Buffon's idea; becaufe the atinnoc, or apes of Ariftotle, had no tails, and the baboons have.-So far as I can pretend to judge of Mr Pennant's figure, it feems a bad reprefentation of the Mandril, or Simia maimon, though, from refpect to the authority of that great naturalift, it is here inferted as a diftinct fpecies of ape.-T.

> ** B A B OONS.-PAPIONES.

Have fhort tails ; a long face; a broad high muzzle; longifh dog-like tufks, or canine teeth; and naked callofities on the buttocks. They are only found in the Old World; and are the Papiones and Kıvazepocia of the ancients.

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

Has a fhort 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, callofities on the buttocks, and a naked curled up tail, from five to fix inches in length; the tufks 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 nofe flat, and the lips thin, with fome ftiff hairs, which are too fhort to form whifkers; the ears, hands, and feet, are naked and tawny; the hair on the body is of an olive black colour, and reddifh yellow on the belly; the male organs are concealed under the fkin. It fometimes walks erect, but moftly on all fours; and, when erect, is from two to two and a half feet high. The female menfruates. This is a vivacious, gentle, tractable, and even careffing animal, without any of the immodefty and impudence of moft baboons; and is very impatient of cold.
2. Little Baboon.-7. S. Papio apedia. 5.

The tail is fhort: The thumbs of the hands ftand clofe to the fingers, having oblong nails on the fingers, 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. 12I. pl. celviii.

Inh:bits 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 almoft naked, having only a few fcattered hairs; the nails are all comprelled and oblong, except on the thumbs and great toes, the nails of which refemble man; the tail is very thort, being hardly an inch long; the body is about the fize of a cat.-It is uncertain if this animal fhould be confidered as a diftinct fpecies, or only as a variety of the Simia fciurea ?--Gmel.

## 3. Great Baboon.-8. S. Papio Spbinx. 6.

The tail is fhort; the mouth is furnihed with whifkers; the nails are fharp pointed and narrow; and the butiocks are naked.
Papio. Gefiner, quad. 252. t. 253 . Aldrov. dig. 260. Jonft. quad. 14,5. t. 61. f. I. Raj. quad. 15 8. Brifil. quad. 19.2.-Papion. Sm. Buff. viii. 121. pl. cclvii.-Simia fphinx. Schreber, i. 8o. 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, fhort, ftrong limbs; the male parts are large, naked, flefh-coloured, and pendulous; the hair is long, bufhy, of a reddifh 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 ftanding on the hind feet. This is a brifk, ferocious, difobedient, mifchievous, and nafty animal ; and infolently falacious, even to the ufe of maruftupration. The female menftruates, and brings only one young at a time, which the 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 feecies as only varieties of one fpecies; 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 fpecies of the Linnæan fyftem, was five feet high.-T.

Has a fhort tail, and is thinly bearded; the cheeks are tumid, naked, of a bright blue colour, and obliquely furrowed ; the buttocks are naked, and of a blood-red colour. Alftroemer, Act. Holm. 1766, vol. 27. p. 138.
Short tailed, and bearded ape, fimia, having fharp claws, and the top of the head furmounted with an ercet tuft of hair, like a mitre. Kramer, anim. auftral. 310-Mantegar. Phil. Tranf. n. 290.-Chloras. Breflauer Natur. Kunftgefch. xv. Verf. 177.-Tufted ape. Penn. H. of Q. p. r/4. pl. xri. 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 apper pai: of the neck; brownifh gray on the back, and whitifh on the belly; on the loins the fkin, which
which is of a violet colour, fhines 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 fhort; the claws of the fingers and toes are flharpifh and compreffed; thofe on the thumbs and great toes are flat and rounded.-I fufpect that this is the fame fyecies with the Mandril, or Papio maimon, and that the pyramidal tuft on the fore head is the effeet of art, for the purpofe of impofition.-T.
5. Mandril.-10. S. Papio Maimon. 7.

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

Cynocephalus. Gefiner, quad. 93. t. 93. Cluf. exot. 370. Jonft: quad. t. 59. f. 4.-Dogfaced cercopithecus, having long hair on the fore part of the body, and the nofe violet coloured and naked. Briff. quad. 214.-Miandril, or ribbed nofe baboon. Sm. Buff. viii. 131. pl. cclix. cclx. cclxi.-Rib-nofed 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 difgufting animal, "of a fullen deformed afpect, with a fquat body, very large head, long muzzle, and flat nofe, perpetually diftilling a nafty fnot, which, with his tongue, he licks into his mouth. It has cheek-pouches, and callofities 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 tulks 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 bluifh or violet colour; the ears, palms of the hands, and foles of the feet are naked; the hair is long, reddifh brown on the body, and gray on the breaft and belly: This fpecies 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 ftill larger: The females menftruate: It is larger, and perhaps ftronger, than the great baboon, or Papio fphinx, but more peaceable, and lefs ferocious; is found on the Gold Coaft 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 paffion for women, whom it frequently attacks, and forces, when at a diftance from relief.

## 6. Hoggifh Baboon.-I I. S. Papio porcaria. 48.

Has a fhort 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 fharp and compreffed. Bodaert. Naturf. 22. p. 17. t. I. 2.
Кєяот心ทnxos. Ariftotelis.
Inhabits Africa, and is about three feet and a half high when ftanding erect.-This, in all probability, is the fame animal with the hog-faced ape, adopted from Pennant as the eighth fpecies of the fub-genus ape in this edition. -T .

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

Inhabits Guinea, where it is called man of the woods by the Englifh.-Has a long dog-like face, covered with a fine grained, fmooth, glofly, black flkin; the hands and feet are naked, black, and glofly, like the face, and have white, flat, rounded nails; the body, head, limbs, and tail, are univerfally covered with longifh clofe fet hair, elegantly mottled with black and tawny; the ears are almoft hid in the fur. It is about three feet high, when erect, and the tail is not three inches long.

## 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 Mur. Penn. H. of Q. n. 79.
This animal ftrongly 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 dulky 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 hiftory, are obfcure.

## 9. Cinereous Baboon.-S. Papio cinerea.

Has a dufky 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 Mur. Penn. H. of Q. n. 80.

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

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

Has a bluifh face; two very broad flat fore-teeth ; and a pale brown beard. Leverian Muf. Penn. H. of Q.n. 8 I.

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

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

Simia platypygos. Sclureber, 8y. tab. v. B.
The place and hiftory of this animal are uncertain. -The upfer parts of the body are brown, andthe under parts aff coloured; the tail is about four inches long, tapers to a point, is almof bare, and quite naked on its under part.-Mr Pennant refers to this fpecies an animal which he inferted in the firft edition of his work on quadrupeds, under the name of New baboon.
12. Crefted Baboon.-S. Papio criftata.

Has very long and difhevelled hair on the crown of the head and cheeks. Leverian Muf: Pean. H. of. $\mathrm{Q}_{\mathrm{\sim}}$ r. $\mathrm{s}_{4}$.

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 lead and cheeks is long, difhevelled, and of a dufky colour; the breaft is whitifh; the face, hands, and feet, are black and naked.

## *** MONKEYS.—CERCOPITHEGI.

Have long tails, which are not prehenfile; the under parts of their cheeks are furnifl. ed with pouches, in which they can keep their victuals; the partition between the noffrils is thin, and the apertures are, like thofe of man, placed in the under part of the nofe; the buttocks are naked, and provided with callofitics. Thefe animals, which are never found native in America, are the Cercopitheci, and кvßor, of the ancients.

1. Dog-tailed Monkey. 12.-S. Cercopithecus cynofuros. 37.

Has a long tail and no beard: The face is long, with a footy coloured fore-head, and a whitifh band over the eyes; the male parts are highly coloured ; the nails are convex. Scopoli delic. flor. et faun. Infubr. P. r. 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 bamadryas. 8.

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

Egyptian ape, having a long tail, and naked prominent buttocks. Hafelquift, it. 189.-Ape, fimia, having the upper part of the ears very hairy. Alpin. hift. nat. Aegypt. 242. tab. I7.--19.Cynocephalus. Gefner, quad. 252. f. p. 253.-Dog-faced baboon. Penn. H. of Q. n. 36.-Simia hamadryas. Schreber, i. 82. tab. x.-Ľe Tartarin. Belon. portrait. 102.

Inhabits Africa, Arabia, and Afia. -The tail of this fpecies is farcely fo long as the body; long hair hangs down on each fide, from the ears, like a flowing wig; the buttocks are naked, and of a blood-red colour: This fpecies is about five feet high when erect; the head and face refemble a dog, the muzzle being long, thick, ftrong, and prominent, with a finooth red nofe; the face is naked; and the ears are pointed, and hid in the hair ; the hair on the fides of the head, and on the body, as far as the waift, is long and fhaggy; on the top and hind part of the head, the limbs, and the body below the waif, it is fhort; the nails of the fingers are flat, but thofe of the toes are fharp and narrow.
B. Urfine Tartarin.-S. Cercopithecus bamadryas urfinus.

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. . . Kolben, ii. 120. La Caille, 296.

Inhabits the Cape of Good Hope. -This fpecies, or variety as Mr Pennant confiders it, has a great head, long thick nofe, and fhort 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 dufky hair, fo that, at firft fight, the animal appears like a young bear ; the body is thick and ftrong, with fhort limbs; is foùr feet high when fitting, and as tall as a middle fized man when erect; the tail is half the length of the body, ftraight 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 fpecies are very numerous, and go in large troops in the mountains, where they fet up an univerfal and horrible cry, for about a minute, when they fee any one approach, and then conceal themfelves in their faftneffes, keeping a profound filence: They fometimes defcend into the plains, to pillage gardens, and then place centinels to guard againft furprife.

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\text { 3. Lowando.-14. S. Cercopitbecus veter. } 9 .
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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.

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

Inhabits the Ifland of Ceylon.-This animal has all the characters of a baboon in figure and difpofitions; it is wild and ferocious, and fo mifchievous that, when not tamed, it muft be kept in an iron cage, where it is frequently agitated with vaft fury; but, when taken young, it may be tamed eafily: In a ftate of liberty it is extremely wild, and keeps always in the woods; is violently fond of women, and fo ftrong as to ravifh them, when found alone, and often injures them fo as to prove fatal. It has cheek pouches, and callofities on the buttocks; the tail is feven or eight inches long; the tufls 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 coarfe hairs; the body is longifh, and thin behind: It walks oftener on all fours than crect, and is from three to three and a half feet high: The females menftruate.

## 4. Wanderu-15. S. Cercopitbecus filenus. 10.

Has a long tail, and is bearded: The body and flowing beard are both black.
Bearded black cercopithecus, having a bufhy beard all round the face. Briff: quad. 209.-Ape; with a flowing beard, of the fize of the large dog-faced kind. Alpin. FIgypt. 242. t. 2 r.

Simia filenus, having a black body and limbs, and a buihy 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 O. n. 88.Simia filenus. Schreber, i. 88. tab, xi.

Inhabits Ceylon and the reft of India.-The two laft fpecies, the Lowando and Wanderu, are confidered only as varieties of the fame fpecies, differing chiefly in the colour of their bodies and beards, and as Baboons, both by Mr Pennant and the Count de Buffon; and the defcription given by the latter naturalift may therefore be applied to all the four varieties.-T.
\%. Tie-tie Wanderu.-S. Cercop. Filenus Tie-tie.
Is about two feet high, and as black as jet, with a long white beard.
Variety ס of the Long-tailed Baboon. Penn. H. of Q.n. 85. ס-LLittle bearded men. Barbot, voy. Guinea, 212 . Bofinan 242.

Inhabits Guinea.-This fpecies is much valued by the negroes on account of its beautiful fkin, which fells for eighteen or twenty fhillings, being ufed to make caps for their Tie-ties or public criers.

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

Has a great triangular white beard, which is fhort 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 harmlefs 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. II.

Has a long tail, and is bearded : The tail is bufhy at the extremity.
Bearded cercopithecus, of a white calour on the belly, having a hoary pointed beard, and the tail bufhy at the extremity. Briff: quad. 209. - Firft bearded cercopithecus. Cluf. exot: p. 371.Malbrouk. Sm. Buff. viii. 148. pl. cclxviii.—Simia faunus. Schreber, I. 90. tab. xii.

Inhabits Bengal.-This fpecies has cheek-pouches, and callonities on the buttocks; the tail is nearly as long as the body and head; and it is a miftake of Clufius that it terminates in a tuft ; the face is of a cinereous grey colour, svith a large muzzle, and large eyes, which have fiefh-coloured eyelids, and a grey band crofs the fore-head in the place of eye-brows; the ears are large, thin, and flefh-coloured; the upper parts of the body are of a uniform yellowifh brown colour, and the lower of a yellowifh 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 menftruate.

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\text { 6. Macaque.-17. S. Cercopithecus cynomslogus. } 15 .
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IIas no beard: The noftrils are thick and divided; the tail is long and arched; and the buttocks are naked.
Cercopithecus cynocephalus, having thick, bifid noftrils, and naked buttocks. Brirf. quad. 2I3.Larger cercopithecus from Angola. Raj. quad. 155.-Macaque. Sm. Buff. viii. 14\%. pl. ccixiv.-Hare-lipped monkey. Penn. H. of O. n. 91.-Simia cynomologus. Schreber, I. 9I. tab. xiii.
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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 hort and fquat; and the limbs are thick and fhort; the upper parts of the body are of a greenifh afh colour, the breaft and belly are yellowifh grey: It walks fometimes erect. Of this fpecies there appear to be varieties much larger than the one here defcribed, and others much fimaller. Its difpofitions are mild and tractable; but it is dirty, ugly, loathfome, and difgufting.

## 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 greenifh and yellowifh colour. Briff. quad. 213.-Cercopithecus. Jonft. 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 defcribed animal is fhort.

## 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 witk its head, and, when angry, it chatters its teeth, holding its mouth wide open; when full grown, the tuiks grow long, and the animal becomes ill tempered and fond of biting; it keeps its bed or neft very clean; when called, anfwers greck; 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 tranfverfe line, or band, in form of a crefcent; a white line paffes along the outfide of each thigh from the anus to the knee; the tail is long, ftraight, and of a black colour, as are the face, ears, belly, and feet.

## 9. Green Monkey.-20. S. Cercopitbecus fabaeus. 18.

Of a yellowifh green colour, and beardlefs: The tail is long and afh.coloured; the face black, and the buttocks naked.
Fellowifh afh-coloured cercopithecus, having the cheeks furrounded with long white hairs. Briff. quad. 145. n. 17.-Cercopithecus from St Jago. Edw. av. v. 210. t. 215.-Callitrix. Sm. Buf: viii. 160. pl. cclxxiiiv-Green monkey. Penn. H. of Q. n. 95.

Inhabits the Cape de Verd iflands, 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 fame fize with the Simia diana and Aygula, being as large as a middle fized cat ; the upper part of the body is of a mixed alh, green, and yellowifh colour ; the throat, breaft, beliy, and thighs, are white; the face is naked and black; the temples are covered with long, reverfed, yellowifh-white hairs; the eye-brows are black and hairy; the tail is white, ftraight, and much longer than the head and body; the feet are afh-coloured; the nails, on the toes, are roundcil, and thofe on the fingers are oval; it has cheek-pouches, and callofities on the buttocks; the head is fimall, with a long muzzle; inftead of eye-brows, a band of black hairs runs along the bottom of the front; the body is of a vivil green colour, mixed with a little yellow: It walks on four feet, and is about fifteen inches from the nofe to the origin of the tail: The females menftruate.

## 10. Mouftache.-2I. S. Cercopithecus cepbus. 19.

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

Blackifh cercopithecus, having long yellowith-white hair on the cheeks and cars, and a bluith mouth. Brif: quad. 206.-Other bearded cercopithecus from Guinea. Raj. quad. r56.-Mouftache. Sm. Buff. viii. 163. pl. cclxxiv. Penn. H. of Q. 11. 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 bluifh white; the hair on the head is whitili and erect, having a white femilunar tranfverfe line on the eye-brows; the upper eye-lids are white; the hair on the cheeks fheds outwards; the mouth is bluifh; the body is fhort and fquat ; the lips below the nofe are of a bright white, and the reft of the face is of a blackifh or dirty blue colour, and naked, except a border of black hairs which furrounds the margin of both lips; there are two large tufts of yellow hairs under the ears, one on each fide, in form of large whifkers or muftachios, which give the animal a fingular appearance, and from which the trivial or fpecific name is derived; there is likewife a tuft of curled hair on the top of the head; it has cheek-pouches, and callofities 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 greenifh afh colour, and the belly and breaft of a whitifh afli: The female menftruates.

Has a white erect fore-top, and a white femilunar arch on the fore.head; is beardlefs. Lin. Syft. nat. ed. x. p. z8. n. 14 .
Mangabey. Sm. Buff. viii. 154. pl. cclxx.-White eye-lid monkey. Penn. H. of (1). n. 96.— Simia aethiops. Schreber, i. rog. tab. xx. xxi.

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

Inhabits Madagafcar.-Thefe two animals are varieties of the fame fpecies, and were both fent to the Count de Buffon, as apes or monkeys, from Madagafcar: They both have cheek-pouches, and callofities on the buttocks; they have a thick, broad, long muzzle, and a prominent ring round the eyes; but their characteriftic mark of difference from other monkeys is, that the eye-lids are naked, and of a very fplendid white colour; the eye-brows confift of fiff, crifped hair; and the ears are black, and almof naked: They walk on all fours; are nearly a foot and a lialf long from the muzzle to the rump, and the tail is about the fame lengti, is carried arched over the body, and is covered with long bufhy hair: The females menftruate. In the firft 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 diftinguifhed by a broad collar of white hair which furround the neck and cheeks, in the form of a beard,

## 12. Egret.-23. S. Cercopithecus aygula. 2 1.

Of a grey colour, and almoft beardlefs; having an erect tuft of hair on the top of the head, flanding longitudinally backwards. Ofbeck. iter. 99.

Black ape, Simia, of a middle fize. Edw. av. 221.t. 3 II.-Egret. Sm. Buff. viii. 140. pl. cclxv. Penn. H. of Q .n. io i.-Simia aygula. Schreber, i., ro6. tab. xxii.

Inhabits India, and chiefly the inland of Java.- The upper part of the body is of a grey colour; much like that of a wolf; the throat, breaft, and belly, are whitifh; the tail is longer than the bo$d y$, and is of a pale afh colour ; the face is of a dirty white, naked, and flattifh; the nofe is flat, very fhort, at a diftance from the mouth, and has two furrows on the upper lip; the cheeks have a thin beard, which is fhed backwards; the fore-head, abore the eyes, is protuberant, and has hairy eye-brows; the feet are black, and have fhort membranes which connect the under parts of the toes with each other; the nails on the thumbs and great toes are rounded; thofe on the toes and fingers are oblong; the ears are pointed; a curved xidge of hair runs from the ear, on each fide, behind the eyes to the bafe of the lower jaw; there is likewife a longitudinal feam or ridge of hair on each fore-arm. The Count de Buffon confiders 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 lefs in all its dimenfions; in the peculiar form of the creft, or egret, from which the trivial name is derived; in the fore-head hair being black inftead of greenifh, which it is in the Macaque; and in the tail of the Egret being proportionally longer.

## ß. Monea.-S. Cercopitbecus aygula Monea.

Dr Gmelin, the learned editor of the Syftem of Nature, adds, that he has feen a monkey of this fpecies, which he confiders as a variety: The head was more rounded, the face lefs black, and the colour of the body lefs on the rufty brown: This animal, while chained, was continually jumping about. Mr Pennant, in his Hiftory of Quadrupeds, No. 102. defcribes a monkcy from Java under the name of Monea, as being tufted like the Egret, having the upper parts of the body of a rufty brown colour, and the under parts whitill. Both of thefe are probably either the fame, or flightly d:fering raricties of the Egret.-T.
13. Nodding Monkey.-24. S. Cercopithecus nictitans. 23.

Is of a black colour, mottled with paler fpots, and having a white nofe: The thumbs, are very fhort; the buttocks are covered with hair; and the chin is beardlefs.

Another cercopithecus from Angola, of a black colour, mottled with blackifh grey fpots adt over the body, and laving a white nofe. Marcgr. Braf. 227.-White-nofed monkey. Pem. H. of Q. n. $9^{8 .}$
B. Bearded Nodding Monkey.-S. Cercopithecus nictitans barbatus.

Exactly like the former, except that it has a long white beard on the chin. Penn. H. of. Q.n. I9.I.

Inhabits Guinen. -This is a playful animal, which continually nodded with its head : It was feen by Dr Alftracmer, who has given a defcription, in the poffeffion of Profefior Burman of Amfterdam: It is nearly of the fame fize with the Piginy, or Simia fylvanus; has a finall mouth, hairy face, yellow irides, and is naked round the eyes; the lips and chin are whitifh; the tail is black, ftraight, cylindrical, and longer than the body; the feet are black, and the thumbs are not longer than to. the firt joint of the fore-fingers.

## 14. Rillow.-25. S. Cercopithecus finicus. 39.

The hair on the top of the head is parted circularly, and lies flat, fhading the whole head : Has no beard. Mantiff. pl. ii. p. 521.
Chinefe bonnet. Sm. Buff. viii. r48. pl. clxix.-Rillow. Knox's Ceylon. 26.—Chinefe monkey. Penn. H. of O . n. 104.

The hair on the top of the head flands 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 fize of a fmall 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, thofe on the fingers and toes are oblong; the muzzle is long, finooth, and of a dufky colour; the upper parts of the body are of a pale brown colour mixed with yellow, and the under parts are whitifh.-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 difpofition of the hair on the top of the head, which lies flat, and is parted circularly like a Chinefe bonnet, from which circumftanceits vulgar name is derived.
15. Douc.-26. S. Cercopitbecus nemaeus. 40.

Has a beard on the cheeks, and a white tail. Mantif. plant. ii. p. 25 r.
Afli-coloured cercopithecus, having the cheeks furrounded with long, yellowifh-white hairs, and a purplifh-brown collar round the neck. Briff. quad. I 46. - Douc, or Sifac. Sm. Buff. viii. r68. pl. cclxxvi.-Cochin-China monkey, or Sifac. Penn. H. of Q. n. 107.-Simia nemaeus. Schreber, i. s10. tab, xziv.

Inhabits Cochin-China and Madagafcar.-Is about two feet high, according to Dr Gmelin, though the Count de Buffon fays that this fpecies 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 flkin of the face and ears is almoft fcarlet, with a band of a darker brownifl colour on the fore-head; and thefe parts have a blackifh hair or domn; the face is furrounded with hair of a whitifh colcur, intermixed with yellow; the collar, on the upper part of the neck, is of the fame colour with the band on the fore-head; the fhoulders, upper parts of the arms and thighs, and the toes, are black; the hands and groins are whitifh; and the feet and legs, as far as the knees, arc brown: The Bezoar of the Ape is chiefly procured from this fpecies. This animal is allied to the monkeys by the length of the tail, to the baboons in fize, and to the apes by the flatnefs of the face; and feems to form a fhade between the monkeys and fapajous, as, like the latter, the buttocks are hairy, and the nuzzle fat ; but, befides the circumftance of this fpecies being an imhabitant of the old world, the tail not being prehenfile, and other effential characters, feparates the Douc from the fapajous, and fixes the fpecies among the monkeys. There are no callofities on the buttocks; the tail is not fo long as the head and body; the face is red, and corered with a reddifh down; the ears are of the fame colour, and naked; the lips and orbits of the eyes are dark brown, or black; there is a purplifh-brown collar round the neck; and a whitiflyellow 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, whitifh; the top of the head and the body are grey; the breaft and belly yellow; the lower parts of the legs are whitifh; the upper part of the thighs black; and the tail, under part of the loins, and infide of the thighs at the top, are whitifh. It walks as often on two feet as on all fours. It is uncertain whether the females menftruate.

## 16. Monina *.-27. S. Cercopithecus Mona. \&I.

Has a prominent, femilunar, whitifh.grey, arch over each eye; and is bearded.
Cercopithecus, covered with variegated black and tawny hair; having black feet, and an afhcoloured tail. Brif. quad. I41.-Mona. Sm. Buff. viii. 156 . pl. cclxxii.-Varied monkey. Penn. H. of Q. ${ }^{11 .}$ 106.-Simia mona. Schreber, i. 97. tab. xv.

Inhabits Morocco, and the warmer parts of Afia.-This is the moft common of the monkeys, and agrees beft of any with the climate of Europe: It is found in Barbary, Perfia, 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 ufed in the Morenk, Spanifh, and Provençal languages, for all long tailed monkeys; and from thefe the barbarous Latin Monichi, and Englifh Monkey, feem derived. This fpecies has cheek-pouches, and callofities 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 fmall 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 interfperfed; 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 gencr.al, preferred fingle names for the feveral fpecies, as much as poffibie; ufing the appellations given in the countries where the animals are found, in imitation of the Count de Buffon: The name he gives to this fpecies is Mona; but, as this comes rather too near Monea, which is formerly employed for a ruticts of the Egret, No. 4!. I have ufed, for this fpecies, a fynomime, given likewife by Buffon.-T.
black band extends from the eyes to the ears, and thence to the floulders and arms; the hair on the body is a reddifh black; the belly and infides of the thighs are whitifh; the outfide of the legs and feet are black; the tail is greyifh-brown, with two white fpots on each fide of the rump : It walks on all fours, and the females menftruate. One kept by Buffon, for feveral years, was very tractable, and became much attached to his acquaintance, but was fhy, and even ill tempered, to frangers; it eat of every thing, roafted meat, bread, and particularly fruits, and fearchcd for fpiders, ants, and other infects.


## 17. Patas.-28. S. Cercopitbecus 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. cclxvi. cclxvii.-Red monkey. Penn. H. of Q. n. 103.-Simian rubra. Schreber, i. 98. tab. xvi.

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

## ß. White-banded Patas.-S. Cercopitbecus ruber albo-fafciatus.

Has a white band over the eyes, and a white beard.
Inhabits Senegal, Congo, and the other hot parts of Africa.-Thefe two animals are only varieties of the fame fpecies: Both have cheek-pouches, and callofities 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, fo vivid as to appear painted; and that on the under parts, as the throat, breaft, 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 firf variety, and white in the fecond. In allprobability there are other varieties of this fpecies, fome of them a good deal larger than thofe now defcribed. In the firft variety, a black line extends over the eyes from ear to ear; and in the fecond this line is white. This fpecies walks moftly on all fours, 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 females menftruate.

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

Has a beard on the chin and cheeks: The ears, nofe, and foles of the feet, are black. Talapoin. Sm. Buff. viii. I65. pl. cclxxv. Schreber, i. ior. tab. xvii. Penn. H. of Q. n. 99.

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

Like the former, but of a black colour. Edw. gleanings, 2ar. Botman's royage, 258 .

The head, back, arms, legs, and tail, are covered with longih, loofe, duiky, black hair; the breaft, belly, and infides of the thighs, are of a duiky flefh colour, and almoft naked; the head is roundifh; the flin of the face is tawny, and thinly covered with black hair; the ears are like thofe of man; the four paws are covered with foft black fkin, having very little hair. This variety is about the fize of a large eat, and is gentle and playful in its manners.

## 19. Agile Monkey.-30. S. Cercopithecus petaurifus. 44.

Is bearded: The back, upper part of the tail, and outer fides of the legs, are of a very dark blackifh olive colour ; and the face is black, having a triangular white fpot on the nofe.
Blanc-nez. Allamand, ed. of Buffon, xiv. p. I41. t. 39.-Simia petaurifta. Schreber, i. ro3. 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.

The cheeks, and the whole face, are bearded, except the eye-brows, the fpace between, the eyes, and the point of the nofe: The body is of a reddifh-brown colour.
Middle fized black monkey. Edw. av. 3. p. 221. t. 3 II.-Small ape, fimiolus, from Ceylon. Scba, thef. i. 77. t. $48 .-$ Negro monkey. Penn. H. of $Q$.n. 100.-Simia maura. Schreber, i. ro7. tab. xxii. B.

Inhabits Ceylon and Guinca.-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 flefl-coloured face, having a few fcattered black hairs; the body, limbs, and tail, are black and hairy; the breaft and belly are of a tawny flefl-colour, and almoft naked; the feet and hands are black, naked, and foft.-This fpecies feems to agree very much with the black taricty of Talapoin, No. 5 I .; infomuch that there can be little doubt of both defcriptions referring to the fame animal, or at leaft to different varieties of the fame fpecies.-T.
21. Roloway.-32. S. Gercopithecus Roloway. 46.

Has a beard: The head, back, and outides 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. 17.90.
Inhabits Guinea.-A gentle animal, about a foot and a half from muzzle to rump, with a taik nearly of the fame length; the face is triangular, black, naked, and is bordercd all round with hairs; and the chin is provided with a long forked beard.

Has a long, flender, naked, and flefh.coloured, projecting face and muzzle, and no beard. Pem. H. of Q . n . 93. pl. xxiii. fig. I.

Its place is uncertain, but believed to be from Africa.-The face is long, naked, and flefh coloured, with a projecting flender muzzle; and the head is covered with thick longifh hair, which falls backwards, through which the ears, which are fmall, pointed, and fomewhat naked, project; the hair on the upper part of the body and limbs is long, and of a pale, rufty brown colour, mixed with black, as is the hair on the head; that on the breaft and belly is of a light aft colour; when fitting, the height is about two feet, and the tail is very long: This is a good natured animal, halving a face very like that of a long nofed dog, but is very little known: The defcription is taken from a drawing by $\mathrm{Mr}_{r}$ Paillou, a printer of animals.

## 23. Prude.-S. Cercopithecus capifratus.

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

Ifas very large tufks; large, black, naked ears, and long pale yellow locks on the cheeks fhed backwards. Leverian Muf. Penn. hift. of quad. n. 94 .

Is fuppofed to inhabit Guinea.-The face is black, having long hairs above each eye; the throat and breaft are of a yellowifh white; the crown of the head, upper part of the body, arms, and thighs, of an afh colour, mixed with yellow; on the lower part of the arms and legs, and on the tail, the afh colour prevails; the hair on the body is coarfe; 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 tufks in the lower jaw ; the vifage is long and flefh coloured, with flefh co. loured ears, and a flattifh nofe. Penn. hift. of quad. n. Io8.
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 ath coloured at the roots; the hinder part of the back is orange coloured, the legs afh coloured, the belly white, and the tail forter than the body.

## 26. Greenifh Monkey.-S: Cercopithecus viridens.

Has a black face, long black hairs on the cheeks, a pale green coloured body, grey limbs, and a dulky coloured tail. Penn. hift. of quad. p. 197.
Its place unknown. -This animal, which Mr Pennant confiders as a variety of the Tawny Monkey, was communicated to that celebrated naturalift by Mr Paillou.

Has a naked blue face, obliquely ribbed; a loag, goat like beard, and a long tail; the body and limbs are of a deep brown colour.
Goat monkey. Penn. hif. of quad. n. 109.
Vol. I.

The place and hiftory of this animal are unknown. - The above defription is taken from a drawing, in the Britifh Mufeum, by Kikius, an excellent painter of animals.

## 28. King Monkey - S. Cercopithecus regalis.

Has no thumb on the hands; the head, cheeks, throat, and fhoulders, are covered with long, flowing, coarfe hairs. Leverian Muf.

Full-bottom monkey. Penn. hift. of quad. n. ino. pl. xxiv.
Inkabits the forefts of Sierra Leone in Guinea, where it is called Bey, or King Monkey.-It is above three feet high when erect: The head is fmall, with a fhort, black, naked face; and the head, cheeks, throat, neck, and fhoulders, are covered with long, coarfe flowing hairs, of a dirty yellowith colour, mixed with black, and refembling a full bottomed wig; the body, arms, and legs, are covered with fhort hairs, of a fine gloffy black colour ; the hands are naked, and have no thumbs; the feet have five very long flender toes, which are armed with narrow, pointed claws; the tail is very long, and is covered with fnow white hairs, having a tuft at the end; the body and limbs are rery fiender: Its $\mathbb{f k i n}$ is held in high eftimation by the negroes for making pouches and gun cafes.

## 29. Bay Monkey.-S. Cercopithecus badius.

Has no thunibs on the hands; the tail is very long, flender, and black; and the body and limbs are very flender. Leverian Mur. Penn. hift. of quad. n. in i.
Inhabits Sierra Leone in Guinea, from whence this and the former fpecies were brought over to Britain, and prefented to Sir Afhton Lever's mufeum.-The body and limbs are very long and meagre; with a very long, flender, black tail; the crown of the head is black; the back of a deep bay; the outfide 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 five long toes on each.
30. Anmulated Monkey.-S. Ce:copithocus fufcus.

The tail is fhorter than the body, and is annulated with alternate rings of darker and
lighter brown. Penn. hift. of quad. n. II2.
Its place and hiftory unknown.-It has a flat face, with long lairs on the forc-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 defrribes this feecies from a drawing in the Britifh Mufeum, and refers it to the Simia apella of Linnrus, which it cannot poffibly be, as that fpecies has a long prehenfile tail, and belongs to the fubgenus of Sapajous, under which it is arranged in this edition, by the trivial name of Capuchin; befides, Mr Pennant has inferted, in his excellent worl, another fecies of Sapajou, which he names Weeper, and refers to the fame Linnæan fpecies.-T.

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\text { **** SAPAJOUS.-S APA } \check{J} I .
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Have prehenfile tails, and no cheek-pouches.
Thefe animals have long tails, which, at the extremity, is generally deprived of har on the under fide, and covered with a finooth fkin; this part they can fold, extend, curl up, and unfold at plea-
fure; by whieh they are embled to hang ùpon branches, or to lay bold of any thing which is beyond the reach of thicir hands, ufing the extremity of the tail like a finger or hand; the partition between the noftrils is very thick, and the apertares are fituated on the fides of the nofe; the buttocks are clothed with hair, and have no callofities; the cheeks have no pouches; the females of this fubgenas do not menfiruate; and this race of animals is only to be found in America: This fubdivifion of the genus is made, with great propriety, by Dr Gmelin, in imitation of the Count de Bufon.

## 1. Guariba.-33. S. Sapajus Beelzebub. I2.

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. Mareg. Braf. 226.-Howling baboon. Bancroft Guiana, 133.-Ouarine. Sm. Buff. viii. 176.-Preacher monkey. Penn. hilt. of quad. n. II 4. $x$.

Inhabits South America.-This fpecies wanders in flocks, moftly at night, making the woods continually refound with hideous howlings: It is a fierce animal, about the fize of a fox; having the body covered with long, black, fmooth, and very fhort hair; and has a round black beard on the the chin. According to Marcgrave, it has a large fquare face; black and brilliznt eyes; and fhort roundifi ears: The hair on the whole boly is black, long, fimooth, and luftrous; that on the chin and throat is longer, and forms a kind of roundifh beard; the hair on the hands, feet, and extremity of the tail, is brown: The female refembles the male in every thing, except in being finaller: It is fo wild and mifchievous, 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 afpect: It generally walks on four feet ; and feeds only on fruits, pot-herbs, grain, and fome infects; and its flefh is reckoned very good eating.
2. Arabata.-34. S. Sapajus feniculus. I 3.

Is of a dufky red colour ; and has a beard on the chin.
Bearded cercopithecus, of a full red colour. Brif: quad. 206.-Alouata, red ape, or largeft beard--ed cercopithecus, of a rufty colour, and having a ftrong founding voice. Barrere, Pr. equuin. 150.Arabata. Gumilla Oronoko, ii. p. 8.-Alouate. Sm. Buff. viii. 176.-Royal preacher monkey. Penn. hift. of quad. n. I 14. $\beta$.

Inhabits the woods near Carthagena, in Cayenne, and on the river Amazons.-This fpecies falutes panengers, from the trees, with loud cries in a difagreeable hoarfe voice; the herd fcarcely allowing themfelves to be looked at till the whole flock begins to roar all at once. It lives mofly on the fruit of the banana tree. The body is of a middle fize, and of an uniform red colour; the mouth is fituated 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 reddifh-brown colour; fo that thefe two Sapajous may be confidered as varieties of the fame fpecies: It is a favage animal, of a reddigh-bay colour, as large as a calf; and, by means of a fingular boney ftructure in the throat, makes a terrible noife, which is heard at a great diftance.
3. Quato.-35. S. Sapajus panifcus. 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. 2 II. Coaita. Sm. Buff. viii. I84. pl. cclxxvii.-Quato. Bancroft's Guiana, I3I.-Simia panifcus. Schreber, i. II5.t. xxvi.-Four-fingered monkey. Penn. hif. of quad. n. II5.

Inhabits South America.-An active, bold animal, fond of freedom, full of gambols, and impatient of cold: It is about the fize of a maftiff, and of a black colour, fometimes dark brown; the limbs and waift are long and flender; thefe, and the farther half of the tail, are fometimes brown coloured, and fometimes black, like the reft of the body; it has four fingers only *, without any evident thumb on the hands, and five toes on the feet; there is, however, a very fmall thumb on the liands, at fome diftance from the reft of the fingers, which is concealed by being placed much inwards; the nails on the fingers are rounded; thofe on the toes are fomewhat oblong and fharpifh; the face is red, and naked, with bare ears; it has a very long prehenfile tail, and wants the offeous pouch in the throat by which the two former fpecies of Sapajous make their harfh noife; the fkin 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 refembling thofe 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 feem to be fome varieties of this fpecies, as Briffon defcribcs one which had whitifh hairs on all the under parts of the body; and Edwards Gleanings, 222. mentions two varieties, oneblack and the other brown.

## 4. Exquima.-S. Sapajus Exquima:

Is of a variegated black and yellow colour on the back; the throat and beily are white; has a beatd. Sm. Buff. viii. 884.
Bearded cercopithecus from Guinea, called Exquima in Congo. Marcgr. hift. nat. Brafil. 22\%. fig. p. 228.
Inhabits South America.-This animal is nearly of the fame fize with the Coaita or Quato, laft defcribed, but differs in the colour, and in having a beard; it is, however, very nearly allied to, and perhaps oniy a variety of that fpecies, which it refembles in difpofition, fize, and prehenfile tail.

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.

> Bufh-

* It is fingular that the accurate Count de Buffon Chould, in his defription of this animal, feveral times iufit on the want of thumbe, while the platio $\varepsilon_{1:=}$ in his Natural Hitory difinety delineates the fmall fhort thumbs mentioned in the foregoing defcription from Dr Cmelin's edition of the Sy hema Naturae.-I'.

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

## B. Grey Sajou.-S. Sapajus trepidus fulvus.

The hair round the face is grey, and of a brownifh yellow on the body. $\operatorname{Sim}$. 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, eredt, hemifpherical tuft; the tail is hairy, and the nails are all rounded.-Perhaps only a variety of the Simia apella, or Capuchin, No. 7r.? Gm.-The face and ears are flefli coloured, and fomewhat downy; the eyes are chefnut coloured, and fituated near each other; the tail is prehenfile, naked below at the extromity, and very bufhy every whercelfe; the hands are always black and naked: It walks on four fect, and does not cxceed a foot in length from the muzzle to the origin of the tail. There are two varietics of this fpecies, the brown and the grey, which differ in colour only: They are both of the fame dize, and have the finne figure and difpo-fitions; are both very agilc, nimble, dexterous, and amufing. Bufton had them botia ahve; and, of all the Sapajous, their conftitution feems to be beft adapted for the climate of Europe: If kept in a chamber during winter, they will live comfortably for feveral years; and there are feveral examples of the fpecies producing in France. The femalcs are apt to be miftaken for males from a remarkable prominence of the clitoris. It is a whimfical animal in its tafte and affections, being fond. of particular perfons, and difcovering the greateft averfion to others.

Has two tufts of hair on the head, refembling little horns: Is beardlefs. Brifi. quad. $195^{\circ}$ n. 3. Pemn. hift. of quad. n. 120 .

Inlabits 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 pofterior parts of the thighs, are black; thenails are long, and rather blunt ; the tail is piehenfile and twitted firally. Perhaps of the fame. fpecies with the Simia apella, or Capuchin? Gm.-This, in all probability, is one of the factitious fpecies, purpofely deformed, by exhibitors of wild beafts, to impofe on the public.-T.

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

Has a long fub-prehenfile 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. Brif. quad. I37. n. I.-Simia apella. Schreber, i. iIg. tab. xxviii.-Weeper. Penn. hift. of quad. n. II 8.

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

Is of a brown colour, with erect black hair on the top of the head, and black limbs: Has a fhasgy prehenfile tail ; and is beardlefs.
Bearllefs black ape, Simia, with a long thaggy tail and yellowinh face. Muf. Ad. Fr. 2. t. 2.Cercopithecus entirsly black. BriT. quad. 13̧. n. 5.-Sai, or Weeper. Sm. Buff. viii. ig6. pl. cclxxx. - Capucin. Penn. hift. of quad. n. 117.-Simia capucina. Schreber, i. 120. t. xxix.

## R. White throated Sai.-S. Sapajus copucinus albulus.

Has white hair on the brealt, throat, and round the ears and cheeks. Sm. Buff. viii. 196. pl. cclxxxvi.
This animal differs from the other variety, befides the circumftances mentioned in the charafter, by having lefs hair round the face; but, in every other article, and in difpofitions, fize, and figure, they perfecily refemble each other.

Eoth inhabit South America.-This animal walks gravely, and does not ikip about; it is continually crying in a wailing and lamentable voice, and repels its enemies by horrible clamours; often fhrieking like the cricket; and, when teazed, yelps like a whelp; carries the tail rolled up fpirally, and very ofien wrapped round the neck: It fmells rank of mufk; 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 fometimes black, and fometimes red, having a black, wrinkled, and moveable fold of the ikin, juft before the hair; the nofe, near the eyes, is furrewed; and the tufks are placed near the other teeth; the tail is long, prehenfile, and alvays rolled up, and is covered with very long hair; when fitting, the feet are placed in fucin a manner that the hind are always more advanced than the fore paws; the face is round and flat, and the ears are almoft naked; on the upper parts of the body, the hair is of a blackifh brown colour, and, on the inferior parts, of a pale yellow, or dirty white; it does rot exceed fourteen inches in length, from the muzzle to the rump, and the tail is longer than the body and fead; it walks on all fours; is a mild, docile, and timid aninala, whofe common cry refembles that of a rat, and becomes a kind of groazing when threatened with danger. In Europe it eats May-bugs and fnails, but in Drafil lives chicfly on grains and wild fruits.

## 9. Saimiri.-40. S. Sapajus fiurcus. 3 1.

Has no heard; the hinder part of the head is prominent; and the nails, on the four toes of the hind paws, ate narrow and pointed.
Deardlefs ape, Simia, having a long tail, a gibbofity on the back of the head, and the toe neils-ot:ong. Nuf. Ad. Fr. 3.-Cercopithecus, having its hair variegated with yellowih and whitifi brown, and the legs of a reddih yeliow or orange colour. Brifl. quad. 197.-Small halibearced American ape, with a long tail, having a bluifh black muzzle, and oblong nails. Wagner Muf. Earcuth. p. I. t. 1.--Lefler yellow cercopithecus. Barrere fr. equin. 151.-Caitaia. Marcgr. Praf. 227 .-Samiri. Sm. Buff. viii. 199. pl. cclisxii.-Orange monkey. Penn. hiff. of quad. n. IIte.- Simia fciurea. Schreber, i. I2I. tab. xxx.

In habita Focuth America.- A pleafnit animal, which ufually refts by lying on its belly; fares in the face of fuch as fracal to it; and is very delicate in the clinate of Europe: Its body is about the
fize of a fquirrel, and, when fitting, it is about feven inches in height; the upper parts of the body are of a greenifh-grey colour, and the under parts whitifh; the legs and arms are rufty-brown; the tail is hairy, having a black tip, and is twice the length of the boly; the nails of the thumbs and. great toes are rounded; the nuzzle is of a bluifl brown colour; the eye-brows are furnifled with briftly hairs; and the ears are covered with a thin whitifh down. This is the moft beautiful of all the Sapajous; its movements are graceful, its fize fmall, its colour a brilliant yellow, its rifage round, with large vivacious eyes, furrounded by flefh-colourcd rings; it has hardly any fore-head; the nofe is elevated at the bafe, and flattened at the point; the mouth is finall, the face flat and naked, and the ears are garnifhel with hair, and a little pointel; the tail is only half prehenfile : It fands with eafe on two feet, but commonly wall:s on all four.

Of a chefnut colour, with a brown muzzle, and no bear:l, haxing a naked fcaly tail.
Leffer American cercopithecus, cilled Monkie. Seba Miuf. i. 22. t. 33. f. 1.--Cercopithecus with a chefnut coloured back, a fmooth belly, and haring a tail li':e a moufe. Brifl. quad. 20 I

Inhabits America. -This animal feems only to difer from the Sainiri by its lefer fize, and from being younger; for which reafon it is only rankel as a variety of the Sainiri, though, by Dr Gme-


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\text { 10. Magu. }-42 \text {. S. Sapajus Jyrichtus. } 33 .
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Is beardlefs, and has the mouth and orbits furrounded with long hairs.
Long tailed, beardlefs, cercopithecus, having a brown muzzle, and a naked fcaly tail. Gronor. Zooph. 2 I.-Smalleft cercopithecus, from the Philippine iflands. Pet. gaz. 21.t. 13. f. 11.-Philippine monkey. Penn. hift. of quad. n. II3.-Simia fyrichta. Schreber, i. i52.t. xxxi.

Said to inhabit the Philippine iflands. -This is an obfcure fpecies, which is mentioned only by: Petiver, who fays that the Indians call it Root, or Magu.

## 1!. 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 cheels; the back and fides are orange and biack intimately mixed; the belly white; the outfide of the legs black, and the infides afh coloured; the tail a dufky afh. This animal was brought from Antingua; but its native place is uncertain.

## ***** SAGOINS.-SAGOINI.

Have long tails, which are proportionally longer than thofe of the Sapajous, ftraight, flaccid, entirely covered with hair, and not prehenfile; that is, incapable of 'laying hold of any object : The cheeks have no pouches; and the buttocks, which are covered with hair, have no callofities: The partition betwees the noftrils is very thick, and the apertures are placed on the fides of the nofe. The females do not menftru. ate. This race of animals is only found in America.

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

Is beardlefs, and the body is thickly covered with long hairs, which are black at the points; the tail is covered with very long hair.
Very fmall whitilh ape, of a deep brown, almoft reddifh, 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. Brif. quad. 195.-Saki. Sm. Buff. viii. zor. pl. cclxxxiii.-Sakkawinkee. Bancroft. Guiana. 80-Simia pithecia. Schreber, i. 125. tab. xxxii. -Fox-tailed monkey. Penn. hift. of quad. n. 122.

Inhabits Soutl2 America.-An exceedingly amufing animal, and eafily tamed: The body is black, $\varepsilon_{2}$ all the hairs having white points, and is fometimes a foot and a half in height; the face has fome rery fhort white hars; the throat and belly are covered with dirty whitifh hairs; the nails are long and blunt; the face is tawny, and covered with a fine, fhort, whitifh down; the hair on the upper parts of the body is blackifh brown, and that on the belly and other inferior parts is reddifh white; the hair on the tail is fo long as to hang near two inches beyond the point. There are varieties of this fpecies, at leaft in colour; fome having the hair on the body and tail of a reddifh yellow. colour. The fore-head, and fides of the face, are furrounded with whitifh and pretty long hair; the hands and fect are bleck, with claws inftead of nails.

## 2. Sanglin-44. S. Sagoinus jaccbus. 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 thofe of the fingers and toes are fharp and narrow.
Cercop:thecus, variegated with alternate tranfverfe bands of brown and whitifh grey, having the ears furrrounded with white liairs. Brif. quad. 202.-Sagouin, or third cercopithecus from Brefil. Cluf. exot. 372. t. 372 2.-Galleopithecus, called Sagoin by the Brafilians. Gefn. quad. 369. - Leffer cagui. Mifarcgr. Eraf. 227.-Sanglin, or leffer cagui. Edwv av. v. 15. 1 218.-Oiftiti, or friated moikey. Sm. Buff. tili. 205. pl. cclxxxv. Penn. hif. of quad. n. 124.

Of a whitifh vellow colour, and fmelling ftongly of mult. Brif. quad. 197.
Fieft cercupthecus foms Miafil. Cuf. exot. 371

Inhabits Brafl.-An active, reftefs animal, which climbs trees like the fquirrel, having a curved, but not prehenfile, tail; it gnaws wood like the moufe, and lives on infects, fruits, milk, bread, tea, and fmall birds; is not tameable, and is fond of biting; a great enemy to cats, on whom it fixes itfelf under their bellies; emits a hiffing kind of cry, and finells ftrongly of mufk; , is fmaller 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 fimall, and of a black colour; with a white fore-head and white lips, the fpace between the eyes being of a yellowifh 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 thofe on each fide fharp pointed, and approaching each other; the tail is flaccid, very bufhy, arnulated with alternate bands of black and white, or rather brown and grey, and is twice as long as the body and head, which laft do not exceed fix inches; the face is naked, and of a tawny flefh colour, having two tufts of long white hair before the ears, which conceal them when the animal is viewed in the face; the ears are roundifh, flat, thin, and naked; the eyes are of a reddifh chefnut colour; the top of the front is covered with black hair; and above the nofe there is a white naked fpot; the bolly is covered with grey afh coloured hair, interfperfed with a little yellow on the throat, breaft, and belly: The found emitted by this animal is articulate, and refembles the word onijiti, which is adopted as its name.

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

Is beardlefs: Has a flowing head of hair, which hangs down on each fide; a red tait, and fnarp 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. 21 I. pl. celxxxvii.-Red-tailed monkey. Penn. hift. of quad. n. 126. pl. xxv.

Inhabits South America,-A brifk aftive animal, which imitates the motions of the lion: Pefembles the former fpecies a good deal in fize, but is rather larger, and, like it, fmells of mufk: Its voice refembles that of a moufe: The body is fmall, 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 eachí cheek; the eyes are of a rufty brown coiour; the ears are roundifh, black, and naked; the claws are all narrow and fharp, except thofe on the fhort thumbs of the fore paws, which are rounded; the tail is twice the length of the body, is red at the bafe, and the reft 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 fmooth white hair dependent from the top and fides of the head, efpecially as the colour is wonderfully contrafted by that of the face, which is black, and interfperfed with a grey down ; the tail, from its origin to near the middle, is of a lively red, the reft of a brownifh black; the hair, on the fuperior parts of the body, is of a yellowifn brown colowr, that on the breaft, belly, hands, and feet, is white; the whole fin is black; the throat is naked and black, like the face ; the muzzle is broad, and the face round ; the roice is foft, and refembles the chirping of a finall bird: It is about nine inches long from the muzzle to the rump, and walks on four feet; is extremely delicate, and difficult to tranforit from America.

Is beardlefs: lias a very hairy head: The circumference of the face and the feet are red ; and the claws are fharp and narrow.
Yellowifh white cercopithecus, having the circumference of the face of a deep red colour. Briff. quad. 200.-Leffer cercopithecus, of a pale olive colour with a fmall head, called Acarima at Cayenne. Barrere Fr. equin. 15 I.-Marikina. Sm. Buff. viii. 209. pl. cclxxxvi.-Silky monkey. Penn. hift. of quad. n. 125--Simia rofalia. Schreber, i. 130. tab. xxxv.

Inhabits South America.-A brifk animal, lefs impatient of cold than the reft of this race: The body is of a yellowifh 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 furrounded with a kind of mane of a bright red colour; the hair on the body and tail is long, filky, and of a pale, but vivid, yellow colour, almoft white, with a confiderable tuft 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 fecies has the fame manners and vivacity with the other Sagoins, but is more robuft in conftitution, as an individual lived five or fix years in Paris, being kept in a warm room during winter.

Is beardlefs; of a filvery white colour, with a red face and brownifh tail. Mant. pl. 2. p. 52 I .

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. cllaxxviii.-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 fpecies: The body is about feven or eight inches long, including the head, and is covered with long beautiful filvery white hair; the tail is about one half longer than the body, and is clothed with gloffy brown hair approaching to black; the face, muzzle, and ears, are naked, and of a lively vermilion colour, as if painted; the muzzle is fhort, and the partition between the noftrils is thinner than in the other Sagoins ; the eyes are diftant, and the ears large; the claws on the thumbs, fingers, and toes, are crooked, narrow, and pointed, but the great toes have flat rounded nails.

## 6. Tamarin.-48. S. Sagoiniis midas. 27.

Is beardlefs; the upper lip is cleft; the ears are naked and fquared; the claw's are fharp and narrow; and the feet are of a faffron colour. Muf. Ad. Frid. 2. p.4.

Very fmall, black, fion-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 thofe on the great toes are flat and rounded. This is a beautiful, lively animal, and eafily 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 feven or eight inches long, with the tail of double that length: The head, body, and tail, are covered with foft, blackifh-brown hair; and the hands and feet with fhort orange coloured hair; the face is of a duky flefh colour, having the upper lip divided, nearly like that of a hare; the ears are fquare, large, naked, and of the fame colour with the face.

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\text { III. M A U C A U C O.-3. LE MUR. } 3 .
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Has four cutting teeth in the upper jaw, with a fpace between the two foremof and the other two; in the lower jaw are fix, which are longer than thofe in the upper; they are extended forwards, compreffed, parallel, and clofe fet; on each fide in both jaws there are fingle tufks, which fand clofe to the other teech; there are feveral grinders, which are fomewhat knobbed, and the foremoft of thefe are longer and fharper 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 handlike ufe of the paws, having no refemblance to mankind. All the fpecies of this genus, excent one which is very little known, inhabit the torrid regions of Afia and Africa.

1. Loris.- I. Lemur tardigradus. I.

Has no tail, and is of a pale rufty brown or tawny colour. Schreber, i. r34. tab. axxviii.
Ape, finia, 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. rg1. 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. I.-Loris. Sm. Buff. vii. 23 I. pl. ccxxx. Penn. hift. of quad. n. 129.

Inhabits the inland of Ceylon.-An active animal, having a moft acute fenfe of hearing : It is about the fize of a fquirrel ; of a pale brown or rufty colour, with a whitilh throat, and having a white line on the head pointing to the fpace between the eyes; the face is covered with hair ; the ears are large, thin, rounded, and garnifhed on the infide with two auricles; the paims of the hands and foles of the feet are naked; the nails are rounded, except on the index of the hind paw, which has a fharp
pointed clasw ; it kas 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 fmall, and remarkable for the elegance of its figure, and the fingularity of its conformation; having nine lumbar vertebrae, whilf all other quadrupeds have only five, fix, or feven; the head is entirely round, and the muzzle almoft perpendicular to this fehere; the eyes are very large, and are placed very near each other ; the ears are large, rounded, and garnifhed with three auricles on the infide, fo as to refemble a turbinated fhell: The moft remarkable circumfance, which is perhaps peculiar to this animal, is, that the female clitoris is perforated by the urethra, fo that this organ has a perfect refemblance, both in figure and fize, to the penis of the male ; the hair on the body is fhort, and very foft, of a tawny colour on the upper parts, and whitifh on the under parts; the limbs are very long and fiender, ard the thumbs and great toes are remarkably diftinct, and much feparated from the other toes. Though named a Sloth by fome writers, it is remarkably agile in climbing trees, and has the actions of an Ape.

## 2. Taillefs Maucauco.-Lemur ecaudatus.

Has no tail : A dark rufty line, from the rump, runs along the middle of the back to the fore-head, where it becomes forked; and a blackifh circle furrounds the orbits. Penn. hift. of quad. n. 128. pl. xxvi. Lever. Muf.
Lemur ecaudatus, Taillefs Lemur. Nat. Mifc. pl. xxix.
Inhabits Ceylon and Bengal.-The head is fmall, 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 fimall; 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, afh coloured and reddifh fur. It lives in the woods, is fond of fruits, eggs, and fmall birds; is very inactive, creeping flowly on the ground; very tenacious of its hold, and emits a plaintive cry.-There is fome confufion among authors in their defcription of the two laft animals; for this ought to be the Lemur tardigradus of Linnæus and others, at leaft in its manners: This edition is guided, lowever, in referring the Loris to that feecies by the high authority of the Count de Buffon.

Has no tail, and is of a black colour. Sonneret, It. ii. 142. t. 88.
Thhabits Madagafcar.-This animal is about three feet and a lialf high; is eafily tamed, whencaught young, and is employed in hunting by the natives: Its voice is plaintive, like that of an infant; it has eight tufks, or canine teeth, in each jaw, only two cutting, or fore-teeth, in the upper jaw, and four; clofe fet, in the lower; all the feet have five toes, furnifhed with flattened fharp nails, and the great toes are very large; the hair is filky and thick fet, white and curled on the rump, grey on the face and between the hind legs, and black over all the reft of the body and limbs: The rudiments of a tail are fenfible to the touch, but not vifible through the fur.

> گ. Grey Mongous.-2: ५. Lemur Mongoz cinereus:

The body is grey, with a black face, and tawny yellow hands. Schreber, i. i38. tab. xxxix. A.

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

The Mongous inhabits the iflands of Madagafcar and Johanna, and the neighbouring countries of Africa.-The feveral varieties of this fpecies, which are enumerated from Dr Gmelin's edition of the Syftema Naturae, feem all to refemble 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 furnifhed with long narrow fharp claws.

The variety which the Count de Bufion defcribes, enumerated above under the name of Brown Mongous, had long filky hair, rather fhort, and fomewhat curled, and entirely brown; the ejes are yellow, the muzzle black, and the ears fhort; the tefticles are very large, and the tongue very rough: It was extremely brilk in its movements, perulant, very nafry, and fond of fruits, fugar, and fweetmeats; while in confinement, it eat off four or five joints from its own tail; it emitted almoft perpetually a low grunting voice, and, when tired of foiitude, croaked very loudly like a frog : The tail is very long and bufhy, carried erect, and curved fomewhat in the manner of the fquirrels. The one reprefented in pl. cexxviii. of the Count de Buffon's work, feems to have a whitifh or grey throat; the muzzle, from between the eyes to the poirt, is long, black, and narrow, with a number of long hairs over the eyes, and on each fide of the moutiz.

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

Has long hair round the fides of the neck and throat, like a ruff; and a long tail.
Rufed maucauco. Penn. hift. of quad. n. 132.-Vari. Sm. Buff. vii. 228. pl. ccxxis.
$\alpha$. Black Vari.-3. $\alpha$. L. Macaco niger.
The whole body is of a uniform black colour. Schreber, i. 142. tab. xl. A,
Black maucauco. Edw. av. v. t. $21 \%$
B. Brown Vari.-3. B. L. Macaco fufcus,

The whole body is uniformly brown.
Brown lemur, having a bufly tail. Gronov. zooph. 22,

Of a uniformly white colour.
Antavarre, entirely white. Cazche, Madagafc. 12 \%o $^{\circ}$
¿. Pied Vari...-3. 8. L. Macaco wariegatus.
The body is mixed with black and white in patches. Sehreber, i. 142. tab. xl. B.
Vericafli, or Varicofi. Flacourt, voy. 153 - Vari. Sm. Buff. vii. pl. cexxix.
The feveral varieties of this fpecies inhabit the farne countries with the Mongous.-The variety, reprefented in the plate of the Count de Buffon's Natural Hiftory, is mofly white in the body; all the paws, the fore-head, the tail, the infides of the thighs, a large blotch on each fhoulder, and a long narrow patch on the loin before tlee upper part of the thigh, are black; the nail on the imner toe of
the foot is fomewhat narrow and pointed, like a claw. The vari is fond of fun-hine, ret alwars choofes to fleep in a dark place, and preferves its neft very clean. In confinement, it refufes to feed on eggs, flefl, or fifh; and, when eating, growls, with a roice like that of a lion: In a wild ftate it is very fierce, and even dangerous, but when tamed is very gentie and good natured; it has a prodigioufly ftrong voice, like the roaring of a lion, fo that two of them in the woods, by their noife, may be miftaken for a hundred; this feems owing to a fingular enlargement of the wind-pipe, juft before it fulits 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 lairy ruff, on the neck, cheeks, aud throat; the eyes are of a deep orange colour, almoft red.

## 7. Ring-tailed Maucauco.-6. Lemar Catta. 4 .

Has a long, erectly arched, bufhy tail, annulated with alternate bars of bluck and white.
Afh-coloured Profimia, having the tail furrounded with alternate rings of black and white. Briff. quad. 222. Muf. Ad. Frid• ii. 5. Schreber, i. I43. 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 inlands of Madagafcar, 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 indiridual in his poffeffion had a fingular ferusture of the eyes, which he is uncertain whether to confider as natural or accidental; the pupil of the right cye was contracted into a perpendicular flit, like that of a cat, while the left pupil was circular and wide . All the nails, botio of the feet and hands, are flat and rounded, without the fharp claw on the index. This is a beautiful animal, of an agreeable afpeet, an elegant figure, and gentle mamers; having a great refemblance to the Nonkeys, but without any of their malicious and mifchievous difpofitions; it has very large eyes, very long hind legs, and a large handfome tail, which is always crect, always waving about, and is ornamented with thitty 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 fleeos in a fitting pofture, with the muzzle refting on the breaft ; the body is not thicker than a cat, but is coniderably longer; the hair, though foft, ftands erect ; the male parts are very finall and concealed. This, and the two former feecies, have an aukward, oblique gait, but leap well, like all the handed animals.

$$
\text { 8. Murine Maucauco.-7. Lemur murinus. } 7 \text {. }
$$

Is of an afh colour, with a rufty brown tail. Niiler, var. fubj. of mat. hift. tab. xiii. A. B,
Inhabits the infand of Madagafcar.-All the toes and fingcrs have fiat rounded nails.

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

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

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

Has a tail: Is of a reddifl.yellow brick-duft colour on the upper parts of the body, and white on the under parts; and the tail is of a uniform tawny red.
Miacquis a bourres. Sonneret, It. ii. 142. t. 89.
Inhabits Madagafcar.-The body and head are about twenty-one inches long, and the tail nine; the hair is very foft, and curled; the loins are of a reddift tawny colour; the face black; the ears are fmall; the eyes large, and of a greenifh 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 reft pointed claws.

Has remarkably long and flender hind legs, efpecially from the heel to the toes; and a long flender tail.
Tarfier. Sm. Bufi. vii. I7 1. pl. cexvi. Penn. hift. of quad. n. 133.
Inhabits the remoteft parts of India, efpecially in the ifle of Amboina.-Has a long pointed vifage, with a flender muzzle, which is two-lobed at the end ; the eyes are large and prominent ; the ears erect, broad, naked, femitranfparent and long, lraving a tuft of long hair between them on the top of the head; on each fide of the nofe, and on the upper eye-brows, there are long hairs; it has only two fore-teeth, and two tufks, in each jaw; there is a diftinct thumb, and four flender toes, on each foot; the great toes are broad, and furnifhed with flat rounded nails, but all the other toes and fingers have fhort tharp claws; the penis is pendulous, and the fcrotum very large; the length, from muzzle to rump, is fix inches; thence to the ground, when ftanding, eleven inches and a half; the tail is nine and a half inches long; the hair on the body is long, foft, and woolly; the head is aftcoloured, the refl of the body tawny, mixed with afh colour; the hair on the legs is fhort, white, and thin; the tail is almof naked and fcaly for the greater part of its length, and is tufted at the end. This animal is defcribed by Mr Pennant from two fecimens in the mufeum of Dr Hunter, and in the Leverian Mufeum.

## 12. Prehenfile Maucanco.-Lemur prebenfilis.

## Has a long prehenfile tail.

Litile maucanco. Penn. hift. of quad. n. T34. Brown's illuft. of zool. ro8. tab. xliv.-Madagafcar rat. Sm. Buf. viii. 284. H. ccxev.

Inlabits the ifland of Madagafcar. - Is rather lefs than a common black rat; the head is rounded, with a fharp muzzle, and long whinkers; the ears are large, roundifh, naked, and thin; the cyes are large and full ; the toes are long and unequal, with round ends, and thort rounded nails, and a fharp long claw on the inner toe of the hind paw; the tail is hairy, as long as the body, and prehenfile; the upper part of the body is cinereons, the lower parts are white, and the fpace round the eyes is
dark coloured. It is a lively animal, which rolls itfelf up when afleep, and carries its food in its hands; it bites feverely, has a weak voice, and cannot be tamed : It is fuppofed to live in the palin trecs, and to feed on fruits. Perhaps the fame with the Murine Maucauco, fp. 8. ?-T.

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\text { 13. Colugo-10. Lemur volans. } 5 .
$$

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

Cato-fimius volans, of Camell. Petiv. gaz. 1.s. t. 9. f. 8. Phil. Tranf. 277. n. 1055 -WWonderful bat. Bont. Jav. 68. t. 69.-Flying cat, of the Ifle of Ternate. Seb. Muf. i. 93.t. 58. f. 2. 3.-Fising maucauco. Pemn. hift. of quad. n. 155. pl. xxvii.-Leverian Muf.

Inhabits Guzurat, and the Philippine and Molucca iflands. - This fingular animal is gregarious, and goes abroad only in the evening and during night, living on fruits: It has a membrane fitited for flying, fimilar to that of the flying fquirrel, which extends on each fide, from the head, to the forelegs, from thefe along the fides to the hind legs, and thence to the extremity of the tail ; the tocs, on all the paws, have flarp claws: The female has two paps fituated on the breanf, which circumftance renders it probable that this little animal fhould be arranged with the Matcaucos, or the general race of Apes; but the above defcription, and generic character, muft remain imperfect until a more recent fpecimen be brought to Europe. According to Mr Pennant,-it has a long head, a little mouth, and fimall teeth, with fmall, round, and membranous ears; the body, and outfide of the membrane, are covered with foft, hoairy, or black and afh-coloured, hairs ; the inner fide of the thin is naked, with veins and fibres difperfed over it; the lower fides of the legs are covered with foft yellow down ; each paw has five tocs, furnifhed with flender, crooked, and very fharp, claws, by which it frongly adheres to any thing: It is about three feet long, from nofe to rump, and nearly the fame brealth when expanded; and the tail is flender, hairy, and about a foot in length.

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\text { IV. B A T.-4. VESPERTILIO. } 4 .
$$

All the teeth are erect, fharp pointed, and ftanding contiguous to each other; the fore-feet are divided into very long, flender, extended tocs, which are connected together by a membrane, which likewife furrounds the body, and by means of which thefe animals arc 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 expanfile membrane mentioned in the above generic character. They have all fmall, obfcure, covered eyes, ill formed noftrils, and large mouths,

## * _ - Lucemque perofie,

 Noatc volant, feraque tenent a vefpere nomen.-Wid. Met. iv. izomouths, extending almoft 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 pafs, flies, gnats, and particularly moths, which laft are their principal food: Their pectoral mufcles are muck ftronger, and more flefhy, than in other animals of this clafs, being fimilar to thofe of birds, for the purpofe of flying; and they crawl aukwardly on the ground, from which they rife to flight with great difficulty: The penis is loofe and pendulous, which is peculiar to mankind, monkeys, and this genus. In cold countries they remain in a torpid fate during winter; being gathered together in dark holes and caverns, or vaults, where they either ftick clofe to the walls, retire into holes, or fufpend themfelves by the hind legs, fome of them wrapping up their bodies in their membranous wings. As the fpecies of this genus are numerous, and more efpecially as the teeth in the various fpecies are confiderably different in their numbers and arrangement, Dr Gmelin has, with great propriety, fubdivided the Linnæan genus into fubgenera, the diftinctions 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. Vefpertilio Vampyrus. I.

Has no tail: The nofe is fimple, like the muzzle of common quadrupeds; and the membrane is divided, between the hind $\operatorname{leg} s$, quite to the rump.
Ternate bat. Penn. hift. of quad. 393 .
This fpecies, of which there are feveral varieties defcribed below, inhabits the weft of Africa, the fouth of Afia, and the iflands in the Indian Ocean and South Seas. - The fore-teeth are rather blunt; it has only one tufk on each fide in the upper jaw, which is furrowed by the action of the lower teeth; there are two tufks on each fide in the lower jaw, having a fmall obtufe kind of incifive teeth placed between then; and there are feveral bluntifh grinders on each fide in both jaws. The noftrils are fcarcely divided. The body is about the fize of a fquirrel, and varies from five to nine inches in length. The firft toe of the fore paws is feparate from the membrane, and is furnifhed with a claw, but the fecond is enveloped in the membrane. The hind legs have feveral toes, and the heels fend off a taper cartilaginous procefs which is united to the membrane. The eyes have each a menbrana nickitans, placed at the inner corner. The uterus is finple.

Is moftly of a black colour. Schreber, i. r 53 . tab. xliv.
Black Pteropus, or wing-footed animal, having fhort, and fomewhat harp, ears. Brifi. quad. ${ }^{\text {r 53.-Vefpertilio ingens. Cluf. exot. 94. Bont. Jav. 68. t. 69.-Flying-dog, Chien volant, from }}$ Ternate. Darbenton, Act. Parif. 1759, p. 384. Seb. Muf. i. 91. t. 57. f. r. 2.-Rouflette, or Ternate bat. Sm. Buff. v, 28 r. pl. cxxxiv. Penil. hiff. of quad. p. 548.

This flecies, or variety, is of a dark reldihh-brown çolour; is nine inches long from muzzle to rump; and the wings are three fcet, from tip to tip, when extended; it feeds on bananas, peaches, and other fiuits; is not gregarious, yet is found in great numbers on the fame tree, by accidentally meeting in gieft of fiod: Often fles by day, which is different from the cultom of other bats, and
fometimes to great heights, and to a confiderable diftance. It has large tufks, a fharp black muzzle, and large naked cars; the tongue is pointed, and garnifhed with tharp reverfed prickles. This fpecies varies in colour, fome being dufky, and others of a reddifh brown ; and fome individuals are found more than a foot long.
B. Rouget.-I . $\beta$. Vefp. Vampyrus fubniger.

The body is of a brownifh black colour.
Dark-brown Pteropus, having fhort ears, fomewhat pointed, and the upper part of the neck of a red colour. Briff. quad. I 54.-Bat from the Ifle of Sabuda in Ncw Guinea. Dampier, voy. v. 8 I.
t. 5.-Great bat. Edrw. av. iv. 180. t. 180.-Rouffette. Daubenton, Act. Parif. 1759, p. 385.Rougette. Sm. Buff. v. 28 r. 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 fhape, but is much lefs, being only about five and a half inches long, and about two feet in extent. This fpecies never fles abroad in the day, and lives in focieties, of more than four hundred, in the hollow trunks of large decaying trees; among which vaft flock, it is generally belicved, there is never more than one male. This animal becomes very fat, and is reckoncd good and wholefome food.

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\gamma \text { Leffer Vampire. -Vefp. Vampyrus belvus. }
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The body is of a pale yellow, or ftraw colour. Pcnn. hift. of quad. n. 393. R. Leverian. Muf.
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, fraw-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. SpeAtre.-2. Vefpertilio Spectrum. 2.

Has no tail: The muzzle has a funnel fhaped membrane, bent inwards at the end. Schreber, i. I59. 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. hiit. of quad. n. 394.

Inhabits South America.-The fore part of the noftrils rcfembles a funnel, turning upwards and inwards, and tcrminated 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 firft 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 mombrane between the hind legs; but thefe do not reach fo far as to meet. This animal is extremely uggly and hideous; the head is ill
flaped, 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 cven 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.

Has no tail: The nofe has a flat, pointed, leaf.like membrane at its extremity. Muf. Ad. Frid. 7. Schreber, i. r60. tab. xlvi. A.
Common American bat. Seba, Muf. i. 90. t. 55. f. 2.
Inhabits South America.-Has fire toes on the fore feet, which are fpread out in the membrane.

Has no tail : The nafal membrane is heart fhaped. Schreber, i. 158 . tab. xlviii.
Taillefs bat, having a foliated nofe, and very large ears with flaps in the infide. Gronov. zooph. i. 7. n. 27.-Reddifh bat, having the ears and nofe double. Briff. quad. 161. n. 4.-Glis volans, from Ternate. Seb. Muf. i. go. t. 56. f. r.-Cordated bat. Pemn. hift. of quad. n. 397.

Inhabits Ceylon and the Molucca iflands. -The fore feet have each fire toes fpread out in the membrane; the colour of the body is a very pale reddifh, and that of the face a little darker; the hind legs are conneited by the membrane.

Has no tail : The nafal membrane refembles a leaf of trefoil. Schreber, i. r6i. tab. xlvi. B.

Fer de lance, or Javelin bat. Sm. Buff. vii. $235^{\circ}$. pl. ccxxxi. Penn. hift. of quad. n. 395 .
Inlabits South America.-Is of a dark brown or black colour, about the fize of a common bat; and very mish refembles the fpear-nofed bat.

## 6. Leaf-inofed Bat- - 6. Vefpertilio foricinus. S.

Has no tail: The riuzzle is much lengthened, and the nafal membrane is of a heart fhape. Pallas, fpecileg. zool. iii. 24. t. iii. Schreber, i. 16I. tab. xlvii.
Short-tailed bat, having a fharp muzzle furmounted with a leaf-like membrane, and rounded, almoft fimple ears. Girenov. zoopli. 7.11. 26.-Common American bat. Edw. av. v. 201. t. 201.Leaf bat. Sm. Buff. vii. 235 . pl. ccasviii. Penm. hift. of quad. n. 396.

Inhabits South America, Jamaica, Surinam, and Senegal. - Has a very fhort tail; and the tongue is furnifhed with fharp pointed papillae: It is about the fize of a common bat; the ears arc fraall and rounded; the lind legs are comested by the membrane; the fur is of a moufe colour, tinged
tinged with red; the tongue is very long, and feems adapted for fucking blood like the Vampire and Speĉtre.

## 7. Hare-lip Bat.—7. Vefpertilio leporinus. 9.

Has a tail; and the upper lip is divided. Syft. nat. ed. x.p.32.11.4. Schreber, i. 162. tab. lx.
American night-bat, Noctilio Americana, having a warty under lip. Syft. nat. ed. xii. p. 83. n. I.-Dukky-red American bat. Briff. quad. 227.-American bat. Seba, Muf. i. 89. t. 55.-Bat from the Valley of Ylo. Feuille, obf. i. p. 623. - Peruvian bat. Penn. hift. of quad. 11. 398.

Inhabits South America. - This fpecies is about the fize of a rat, and lives on fruits; it is of an irongrey colour ; the head is like that of a pug-dog, with large pointed ears; the tail is inclofed in the membrane, which is alfo fupported by two long cartilaginous ligaments; and the wings extend two feet two inches.

## 8. Chop fallen Bat.-Vefpertilio labialis.

Has a fhort tail, and hanging lips; the nofe is two-lobbed, and the upper lip di. vided.

Varicty $\beta$. of the Peruvian bat. Penn. hift. of quad. n. $398 . \beta$.
Inhabits Peru, and the Mufquito fhore.-The head is large; with hanging lips, like thofe of a maftiff; the nofe is two-lobed; the upper lip is divided, and the ears are fraight, long, and narrow; the tail is fhort, having a few of its extreme joints franding 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 afh coloured, and of the membrane, which is very thin, dufley: 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.

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

Great-eared bat. Frifch. av. t. Ioz. Edw. av. v. t. 201. f. 3.-Bai, having a tail, a fimple nofe, and very large ears without any pendicle. Gronov. zoop. 23.-Moufe-coloured bat, with double ears. Briff. quad. I $60 .-$ Bat, with quadruple ears. Jonft. av. 34. t. 20.-Long-eared bat, or Oreillar. Sm. Buff. ir. 2d fpec. p. 322. pl. xc. fig. 2.-Long-cared bat. Penn. hift. of quad. 11. 412. Brit. zool. i. 129. Lev. Muf.

Inhabits Europe, and is found in Britain. - This is much fmaller than the following fpecies, or common Bat, than which it is perhaps more numerous; its wings are floorter, its muzzle fmaller and fharper, and its ears are of an immoderate fize.

[^5]Has a tail: The lips and nofe are fimple; and the ears are fmaller than the head. Faun. Succ. 2.

Moufe-coloured bat, with fimple ears. Briff. quad. 158. n. 1.-Bat. Aldror. ornith. 575. f. p. 576.-Small eared bat. Frich. av. t. 102. Edw. av. iv. t. 201. f. 2.-Chauve fouris, or bat. Sm. Buff. iv. 380 . Ift fpec. p. 322. pl. lxxxix. fig. I. and 2 . - Common bat. Penn. hift. of quad. n. 4 II. Brit. zool. i. n. $40 .-$-Its anatomy. S. N. C. d. 2. a. I. obf. 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 durk, of the evening. This fpecies is two inches and a half long, when full grown, and about nine inche's in extent; the fur is of a moufe colour, tinged with reddifh; it generally flkims near the ground, with an uneven jerking flight; and often, feeking for gnats and other aquatic infects, flies clofe by the furface of water. It breeds in the fummer feafon, and is preyed on by owls.

The European fipecies of bat pafs the winter in a torpid fate, without food or motion, fufpended in fome dark place, in old ruinous houfes, or caverns, or in the hollows of decayed trees: This is called bybernation; and, during this ftate, moft of the animal functions are fufpended, or at leaft fo greatly diminifhed in their activity as to be fcarcely perceptible: The action of the heart and arteries becomes fo exceedingly languid, that the pulfe can fearcely be felt, and the natural number of ftrokes, during any given time, is vafly leffened; if refpiration be at all carried on, it is fo very flow as fcarcely to be difcoverable; the natural temperature, or animal heat, likewife gets greatly below the ufual ftandard; digeftion becomes altogether fufpended, for, during hybernation, no food whatever is taken into the ftomach; all the excretions, except, perhaps, the infenfible perfpiration, and that by the lungs, both of them in a much lower degree than ufual, are at a fand; and none of the functions feem to go on excepting a very flow degree of nutrition, and interchange of old for new matter in the depofitory cells of the body: That this laft actually takes place is evident, becaufe all hybernating animals enter into the torpid fate extremely fat, and revive again exceffively 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 fupply the proportionally gradual wafte, occafioned by the more than half fuppended action of the emunctories.

Bats are rery voracious, if proper food is to be had; and, though moths and other infects be their natural and common food, yet if flefh, whether raw or roafted, frelh or corrupted, comes in their wray, they devour it with greedinefs. In this country they appear abroad early in fpring, flying about only in the evenings; but are fometimes rovfed from their torpidity by a warm day or two during winter, and will then venture out in queft of food, but recommence their ftate of hybernation whenever the cold returns: They retire at the end of fummer into caves, ruined houfes, or the roofs and eaves of houfes, where they remain fufpended 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, whisened and thrown up in the way of their flight; they are attracted by the whitenefs, and the hooks of the bur, ficking to their membranous wings, make them fall to the ground.

## 11. Noctule.- ro. Vefpertilio noctula. 10.

Has a tail : The nofe and lips are fimple; the ears are oval, and provided with a very fmall valve, or fecondary ear. Sclreber, i. 166. tab. lii.
Bat. Gefner, av. $69+$ \& pl. Aldrov. ornith. 575 . f. p. 576 . -Noctule. Sm. Buff. iv. 317. $3^{\text {d fpec. p. 322. pl. xci. fig. r. Penn. hift. of quad. n. } 407 . \text {-Great bat. Brit. zool. i. i28. and }}$ $\mathrm{D}^{\text {o illuft. tab. ciii. }}$
Inhabits France, Germany, Britain, and Rufiia.-The note is fighthly two-lobed; the ears are fimall and rounded; the clin has a finall wart; the length of the body is near three inches, the extent of the wings about thirteen, and the tail one inch feven tenths long. This fpecies las been found in great numbers at Cambridge. It never fkims along the ground, but flies high in fearch of food; is fometimes larger than the above meafures: Like the former it breeds in fummer.

Has a tail: Is of a yellowih brown colour, having fhort ears with thickened edges. Schreber, i. 167. pl. liii.
Serotine. Sm. Buff. iv. $3^{17} .4^{\text {th }}$ fpec. p. 323. pl. xci. fig. 2. Penn. hiff. of quid. 11. 408.
Inhabits France, Germany, and Siberia, beyond Lake Baikal.-This fpecies is about two incles and a half long: The ears are fhort, and broad at the bafe; the body is of a brown colour, mixed with rufty yellow, the belly paler, and the wings are blackiih.

Has a tail: Is of a brownifh.black colour; having a funk fore-head, and oval, thick. edged ears, fcarcely fo long as the head. Schreber, i. 167. tab. liv.
Pipiftrelle. Sm. Buff. iv. $3^{17}$. $5^{\text {th }}$ fpec. p. $3^{23}$. pl. xcii. fig. 2. Penn. hift. of quad. n. 409.
Inhabits France, more rarely in Germany, and is common in the mountainous parts of Rufia and Siberia. -This is the fimalleft and leaft uggly of all the bats: The upper lip is turgid, the eyes are fmall and much funk, and the fore-head is covered with longifh hair. It is not above an inch and a quarter in length, and fix inches and a half in extent: The upper parts of the body are of a very dark yellowifh brown, and the lower parts of a dufky brown or black colour, with yellow lips.

## 14. Barbaftelle.-13. Vefpertilio Barbaftellus. 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. Iv.
Barbaftelle. Sm. Buff. iv. 3 17. 6th fpec. p. 323 . pl. xcii. fig. i. Penn. hift. of quad. n. $\cdot 410$.
Inhabits Burgundy in France.-This fpecies appears to have large whifkers, owing to the turgid nefs of the checks, which form a kind of pudding, on each fide, above the lips: The muzzle is very Thort, the nofe much flattened, and the eyes are placed near the ears; the ears are very broad, fo
that their lower edges touch each other and conceal the face; the upper part of the body is of a dufky brown, and the lower of a mixed afh and brown colour : It is about two inches long, and ten and a half in extent.
15. Bearded Bat.-14. Vefpertilio bifpidus. 14.

Has a tail, and is covered with a rough fur: The noftrils are open, all up the nofe, like a gutter; and the ears are long, erect, and narrow. Schreber, i. 169. tab. lvi.

Campagnol volant. Daubenton, act. Parif. 1759. p. 388.—Bcarded bat. Sm. Buff. v. 305 . pl. cxxxviii. fig. I. Penn. hift. of quad. n. 402.

Inhabits Africa, near the river Senegal.-This fpecies has a longifh beard under the chin: The nofe has hardly any cartilage, and the noftrils are placed on each fide in a finall open gutter, which reaches the whole length of the nofe, and is terminated, at the lower part of its external edge, by a fimall 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 longifh and rough ; on the top and hind parts of the head, on the neck, fhoulders, back, and rump, of a reddifh brown; the reft is whitifl, tinctured with yellow; the ears and membranes have different fhades of blackifh and reddifh brown; the tail is inclofed, to its tip, in the membrane; the claws are yellowifh: The length of the body is about one inch and a half, and the extent of the wings ferea inches.

## C. Having four fore teeth in the upper, and eight in the lower jaw.

IIas a tail : The muzzle is fimple; the ears are funnel fhaped, and provided with a little appendage on the infide. Gronov. zooph. 7. 1. 25. Pallas fpecil. iii. 7. Schreber, i. i 7 e. 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 Kirizwoula by the natives.-The nofe-is very fmall; the ears are broad, fhort, and pointing forwards; the front, top of the head, neck, fhoulders, back, and rump, are of a whitifl yellow colour; the under jaw, breaft, and belly, are bluifh, tinged with yellow; the membrane and tail are mixed jellow and brown, ftriped with black: It is about two inches long from the muzzle to the rump.

## B. Reddifh friped Bat.-Vefp. pitus rubellus.

Exactly like the former, but having the upper parts of the body of a clear reddifh brown, and the lower parts whitifh. Penn. hift. of quad. p. $55^{8}$.
D. Having two fore teeth in the upper jaw, and fix in the lower.

Has a tail : The anterior part of the head is of a yellowifh brown colour; and the feet and tail are black. Schreber, i. 17 I. tab. lviii.

Marmotte volante. Daubenton, act. Parif. 1759. p. 385.-Senegal bat. Sm. Buff. r. 302. pl. cxxxvi. Penn. hift. of quad. n. 400.

Inhabits Africa, near the river Senegal.-The head is longifh, with a fomewhat pointed nofe; the 'ears are rather fhort, and pointed; the body and head are of a tawny, or yellowifh, brown, mixed with afh colour; and the belly is paler; the length is about four inches, or rather more, and the membrane meafures 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. Vefpertilio Moloffus. 17.

Has a tail: The tail is long, and reaches beyond the membrane which conneets it with the hind legs; and the upper lip is pendulous. Pallas, fpecileg. iii. 8.
Bull-dog bat. Sm. Buff. v. 303 . Penn. hift. of quad. n. 399.
Inhabits the Weft India iflands.-Of this fecies the two following varieties are known.

Is of a brown-afh colour, on the upper parts of the body, and aht 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. I.
The muzzle is very thick, with long lips, and a handfome nofe. 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 fide of this fold: The crown and hind part of the head, the top and fides of the neck, the fhoulders, the back and the rump, are of a brownifh afh colour; the middle of the belly is brown, and the reft of the belly, the breaft and taroat, are of an unmixed afh colour; the fore legs and toes are cinereous, and the membrane and tail are black: Five falfe vertebrae of the tail extend beyond the membrane : The iength, from the muzzle to the rump, is about two inches.

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\text { - Lefler Bull.dog Bat. - } 7 \text {. } \beta \text {.V. Mol. minor. }
$$

Is of a mixed brownith and ath colour, on the upper parts of the body, and a dirty white on the lower parts. Schreber, i. i71. 172. tab. lix. fig. fup. Sm. Buff. v. 304 . pl. cxxxvii. fig. 2.

This animal feems to be of the fame fpecies with the preceding, but is finaller, being about an incl and two-thirds long. The head is lefs plump, the muzzle fmaller, and the nofe more clegantVol. I.
ly fhaped; the whole upper parts of the body are ycllow, with an afh coloured tinge; and the under parts are of a dirty white, inclining to a yellowifh afh colour; the membrane and tail are of a mixed brown and yellow; and the tail projects beyond the membrane in the fame manner with the: former variety.

## F. Having two fore-teeth above, and none below.

19. Cephalote.-18. Vefpertilio cephalotes. 18. -

Has a taii: The head is large, having tumid lips, fpiral noftrils, warts below the orbits, and fmall ears, without any lid or operculum. Pallas, fpecileg. iii. 10. t. r. Schreber, i. 172. tab. lxi. Sm. Buff. vii. 236 . pl. ccxxxii.

Molucca bat. Penn. hift. of quad. n. 405.
Inhabits the Molucca iflands.-This fpecies is about three and three quartcr inches long, and fifteen inches in extent; the tongue is furnifhed with prickly papillae; the hair on the upper part of the body is afh coloured, and on the under parts whitifh; the head is very large, in proportion to the body, with a broad, blunt, fimple nofe ; the noftrils are open, fpiral gutters; the ears are finall, fimple, and ftand a little backwards; the neck is very diftinct, and feems longifh, being thinly covercd with hair; the tufks of the upper jaw have two fmall intervening teeth, which are wanting; in the lower jaw: The female feems only to produce one at a birth.

## ß. Straw-coloured Cephalote.-Vefp. cepbalotes melinus.

Refembles the former, except in colour, being of a fine ftraw. colour, with a dull white: belly. Penn. hift. of quad. p. 558. Lev. muf.

## G. Having no fore teeth above, and four below:

Has a tail : The nofrils are tubular ; the ears are long, blunt at the extremity, and furnifhed with a lid; the membrane, which connects the legs, has a purfe, or pouch, on the infide, on each fide of the body. Schreber, i. r73. tab. Ivii.
Pouch bat. Penn. hift. of quad. n. 401.
Inhabits Surinam.-The nofe is fomewhat produced, thick at the end, and befet with whifkers; the chin is divided by a perpendicular furrow; the ears are long and rounded at the ends; the tail is only partly inclofed 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 garts.

## 21. Horfe-llioe Bat.-20. Vefpertilio ferrum-equinum. 20.

Has a tail : The nofe refembles the figure of a horfe fhoe; the ears are of the fame length with the head, and have no lid; the tail is about half the length of the body.

Horfe-floe bat. Sm. Buff. iv. $3^{17}$. $7^{\text {th }}$ fpec. p. 324 . pl. xciii. Penn. hift. 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 Cafpian.-This fpecies was firft obferved by the illuftrious Daubenton, and defcribed very accurately in his account of the various kinds of bats. The countenance is remarkably deformed, and its moft ftriking feature is a membrane, which, flaped like a horfe fhoe, furrounds the nofe and upper lip; the ears are large, broad at the bafe, fharp 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 whitifh. There is a greater and leffer variety, which are very fimilar in form.
a. Larger horfe fhoe Bat.--20. a. Vefp. fer.-equ. major.

This variety is about three inches and a half long, from the tip of the nofe to the origin of the tail ; its extent is above fourteen inches. Schreber, i. 174 . pl. lxii. :upper fig.

## B. Leffer Horfe-fhoe Bat.-20.. B. Vefp.fer.-equ. minor.

The particular fize and differences of this variety are not mentioned by authors, only that it is lefs than the preceding. Schreber, i. 174 . pl. lxii. lower fig.

## H. Having no fore teeth in either jaw.

22. New-York Bat.-2 I. Vefpertilio noveboracenfis.

Has a long tail: The muzzle is fhort and fharp pointed; and the ears are fhort and rounded. Penn. hift. of quad. n. 403. Arctic. zool. n. 82. Leverian muf. Forfter's voy. 189.

Inhabits North America, and is alfo found in New Zeland.-The head is fhaped 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 inclofed in the membrane, which at that part is covered with long, and very foft hair, of a bright tawny colour; the head and body are of a bright tawny colour, lighteft on the head and beginning of the back; the belly is paler ; and there is a white fpot at the bafe of each wing; the membrane is thin, naked, and of a dulky colour; and the hind legs are very flender: 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.

1. Of which the number and circumftances of the teeth are unknown.

Has a tail; and the membrane is extremely broad. Schreber, i. tabe. Iviii. B..
Its place and hiftory unknown.
24. Broad-tailed Bat.-22. Vefpertilio lafiurus. 22.

Has a very broad tail ; and the lips are tumid. Schreber, i. tab. 1xii. B.
The place and hiftory of this and of the former fpecies are not mentioned.

Is of a large fize; has great ears, and long ftragling hairs. Phil. Tranf. abrid. iii. 594n Penn. hift. of quad. p. 557. note. Arct, zool. n. 83.

Inhabits North America.-This fpecies is not fufficiently defcribed to enable it to be referred to any of the former fpecies, or to afcertain whether it be diftinet from them: It is placed here, in the mean time, to point out the neceffity of farther inquiries to naturalifts.-T.

## II. $B R \quad U \quad A$.

## Have no fore-teeth in either jaw.

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\text { V. S L O TH.-5. } B R A D Y P U S .7
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Has no fore-teeth in either jaw: Has fix grinders on bork fides of each jaw, which are cylindrical, and obliquely cut off at the ends; the two foremoft in each jaw being longer than the reft, and far diftant from each other. The body is covered with hair.

Has three toes on all the feet; and a fhort tail. Muf. 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. Brill. 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 frefh leaves, efpecially of the Cecropia; never drinks, and is afraid of rain: Climbs trees with great readinefs, but walks with great difficulty, and very flowly, fearcely being able to travel fifty paces in the courfe of a wholeday; turns its head often about as if aftonifhed: The voice is in afcending hexachord, or fix fucceffively rifing notes, making a moft horrible clamour, accompanied with tears, and every mark of mifery: The body is very hairy, and of a grey colour, having a naked face; the throat is yellow; there are no external ears: The tail is extremely fhort, and fomewhat egg-fhaped: The fore legs are longer than thofe behind, and are placed at a great diftance from each other: The toes, of which there are three on each foot, are very clofe fet, and lave all exceedingly ftrong, narrow, hooked claws. There are two paps fituated on the breaft.

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 brownifh afh, or grey, colour, with a black line along the middle of the back, and a rufty fhade on the fhoulders; the back and limbs being irregularly fpotted with black: The mouth is never without foam: Its manners are fluggith to an exceffive degree; its general appearance difgufting; and the voice plaintive, piteous, and even horrible, It can live a prodigious time without.
food, Kircher fays forty days: Has valt frength in the paws, and faftens its claws into any thing with fuch force that they cannot be difengaged; hence, when beafts of prey attack this animal, it faftens on them fo ftrongly, that both are often found dead in each others grafp.

Has two toes on the fore feet, and no tail. Mur. 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. cexii.-Twortoed 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 fimelling, 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 Bofman and Barbot, that floths are met with in Guinea, are not to be doubted; but, from the general analogy of the South American animals not having been difcovered in the other quarters of the world, I am ftrongly inclined to Buffon's opinion, and fufpect that the Sloth of Madras, mentioned by Pennant, and the Sloth of Guinea, defcribed by Bofman and Barbot, are different fpecies from the Unau, or two-toed Sloth from South America. The hair on the body is long and rough, on fome parts curled and woolly, in fome of a pale red above and afh coloured below, on others of a yellowifh white below and brown above. The length of the fpecimen in the Britifh Mufeum, which Mr Pennant fuppofes young, is eleven inches. This fpecies has forty-fix ribs on each fide, and the Ai only twenty-eight. The Unau, though heavy, and very awkward in his gait, is much more agile than the $A \mathrm{i}$, and is able to mount and difinount the higheft trees feveral times a-day. There is one very fingular circumftance in thefe two animals, that, inftend of diftingt 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 fhort tail. Hitherto non-defript.
Bradypus urfinus, Urfiform floth. Natur. mifc. pl. 58. 59.
There are no fore-teeth in either jaw: In each jaw are two turks, which are included by the lips; thofe below are about an inch and a half long, of a conical or tapering form, ftand forwards, and are a little bent backwards at their ends; the upper tuils are about an inch longer, are more crooked, and are larger than the lower: There are tavo principal gxinders above, and three below, on each file; thefe are fhort, flat, broad, and obtufely knobbed; befides thefe, on each fide of the upper jaw, is one conically pointed finall grinder, and on each fude of the lower jaw are three fuch, which gradually diminifl in fize and length as they adrance forwards: All thefe fingle pointed grinders, in botll jaws, ftand before the large principal grinders formerly defcribed. The body is large, thick, clumfy, and highly arched in the back, and is univerfally covered with long, harfh, black


hair, whieh fheds to every fide from the fummit, 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 thort and thiek, and the ears are fhort, erect, hairy, and hid in the fur; the mouth opens pretty largely, and, when fhut, 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 rathc: longer; and they form occafionally a projecting tube for fucking; the tongue is long, flat, broadifh, 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 inch deep; the fore part of the upper jaw and fnout, for about four inches, wants bone, and its place is fupplied by a moveable eartilage, feemingly articulated to the fore part of the upper jaw bone ; by raifing this upwards, the animal can open its mouth without feparating the jaws, and it employs this method when fucking in drink or fort food; the tail is very fhort, and is covered with the fame black hair as the reft of the body; the legs are diftant, fhort, ftrong, and covered with the fame kind of lair as the body; the fore legs are fomewhat 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 fhort toes, fet clofe together, and furnifhed with long, narrow, hooked, white claws, about three inehes long, and not retractile. The whole length of the animal is about four feet and a half, meafured 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 thic back when ftanding, 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 Dear, the Sloth, and the Hog. In its ftate of confinement it always keeps a groveling pofition, on its bedly, with its fnout lying on the ground; and, even when forced to rife, ftill keeps the head exceedingly low and flouching. When irritated, it gives one fhort, harfh cry, between a grunt and a roar, which it does not repeat but on a fecond provocation. It eatehes at any thing prefented to it with one or both fore feet, carrying the fubitance to its mouth, and biting hard with the grinders on one fide. The general colour is black, except the face, which is dark grey, and a few grey fots between the legs, and on the breaft and belly.

In its prefent fate of confinement, the keeper fays that it feeds on bread, and is fond of fruit, raw eggs, fat, and marrow, but will not eat roots. When any thing fluid is prefented, it fucks ftrongly through a tubular opening of the lips, already defcribed. The keeper fays, that this animal was dug out of a fand hill near Patna in Bengal; and that, on feveral occafions, when loofe, it has immediately endeavoured to burrow in the ground. I am inclined to think, however, that the feet are formed for climbing trees, and by no means for digging; as she foles, efpecially of the fore feet, are narrow, and as the claws are narrow and hooked: Befides, 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-defcript, at leaft fo far as I can learn, and was lately exhibited in Edinburgh, under the foolifh name of Lion-monfer; but by what name it is known, in the languageof the country from whence it came, the keeper is not informed; neither does he know any thing of its hiftory or native manners. It comes neareft in generic characters to the Sloth, with which I have arranged it ; and the foregoing defcription will give a gencral idea of the animal to naturalifts, until its hiftory can be invertigated more accurately when its place comes to be knowno

Since writing the above, I have feen a defcription of the fame individual, accompanied with a very accurate wooden cut, by Mr Bewick of Newcaftle, Gen. Hift. of Quad. 2d ed. p. 266, who fuppofes it congeneric with the Bear: To this opinion I cannot fubfcribe, as all the generic characters of that genus are entirely wanting in the animal under confideration. The fame individual is defcribed, under the name of Urfine Sloth, in the Naturalift's Mifcellany; and I am happy to find that the ingenious author of that ufeful publication has referred it to the fame genus in which it has been placed, in the manufcript of this work, ever fince its appearance in Edinburgh. -T.

## VI. ANT-EATER.-6. MYRMECOPHAGA. 8. <br> 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 queft of food. Their fur is exceedingly thick fet.

## 1. Two toed Ant-cater, - I. Myrmecophaga didactyla. r.

Has two toes on the fore paws, and four on the hind feet; and a buhy tail. Muf. Ad. Fr. i. 8.

Two-toed ant-eater, with a fhort fnort, having two toes on the fore, and four on the hind feet. Brif. quad. 98.-Tamandua, or White coati, from America. Seba, Muf. i. 60. t. 37. f. 3.-Little ant-eater. Edw. av. 1. 220.-Fourmiller. Sm. Buff.v. $35^{2}$. pl. cxlviii,-Leaft ant-eater. Penn. hift. of quad. n. $37^{2}$. pl. 1.

Inhabits South America.-Walks very fowly on the heels. The body is of a yellow colour. This fpecics is finaller, and has a fhorter muzzle than the other fpecies of the genus. According to Mr de la Borde, this animal is of a bright reddifh colour, bordering on golden yellow, and is about the fize of fquirrel: The tongue is fpiral, and like a worm: It has no cry, and feeds only in the night. By Mr Pennant, this fpecies is defcribcd as having a conical nofe, a little bent downwards; finall ears hid in the fur; the body and head being feven inches and a half long, and the tail eight and a half; the head, body, limbs, and upper part and fides of the tail, are covered witi long, foft, filky hair, or rather wool, of a yellowinh brown colour; the tail is thick at the bafe, and tapers to a point; being naked for the laft four inches, on the lower fide, and prehenfile.

The figures of this animal, as given by the Count de Bufon and Mr Pennant, differ remarkably from each other: In the former, the fore paw has only one claw, and the hind paws are fo confufed, that only a flat, broad, palmated mafs can be difcovered, with a kind of thumb or falfe toe on each fide of each paw; while, in the latter, the fore paws have each two, and the hind paws each four, difinct claws. The form of the heod in thefe two figures is iikewife very different; but in both
the tail is prehenfile. Where two fuch great naturalifs differ fo very materially, I do not pretend to afcertain which is right; but it feems probable that thefe are two diftinct fpecies; and, if fo, that the fpecies defcribed by Buffon fhould be called the Myrmerophaga monodactyla: Perhaps his figure. might be taken from a mutilated dry fkin.-T.

## 2. Thrce-toed Ant-cater.-2. Myrmeioplaga tridactyla. 2.

Has three toes on the fore, and five on the hind feet; and a bulhy tail.
'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. 6o. t. 37. f. 2.

Inhabits India.-Travels very flowly; climbs trees; defends itfelf with its broad tail againft flies, ufing it as a fly-flap; has two paps on the breaft and fix on the belly; the back has a longitudinal mane, and there is a biack ftripe on each fide; the tail is flat, and covered with long hairs, which are black on the under fide and white at the top. Dr Gmelin is uncertain if this be a diftinct fpecies?

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. Brifl. quad. 24.-Tamandua-guacu. Marcgr. Braf. 225.-Tamanoir. Sm. Buff. v. 333. pl. calvii.-Grent ant-eater. Penn. hift. of quad. n. 369.

Inhabits South America, and the kingdom of Congo in Africa.-This animal covers itfelf with the tail when afleep, and to guard againft rain; it has a black ftripe on the fide and breaft; the tail is very thickly covered with long hair, and the hairs are not round but flat. The flefh 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 laft being covered with coarfe hair above twelve inches long; the muzzle is immoderately long, the neck fhort, the head narrow, the eyes fmall and black, the ears roundifh, the tongue thin, above two feet long, and, when not ftretched out, is folded up in the mouth; the legs are about a foot long; thofe before are a little longer and thimer than the hind legs; the feet are round, having four claws before, the two middle ones being longeft, and five fhort claws behind: The hair on the body and tail is mixed black and white; the hair on the tail is difpofed like a feather, and the animal, when he wants to defend himfelf from rain, or the heat of the fun, turns it on his back, and covers his whole body; there is a black ftripe on the breaft, which ftretches along the fides, and terminates on the back near the thighs; the hind legs are nearly black, and thofe before are almoft white, with a black fpot about the middle.
B. Short-nofed Great Ant-eater.-Myrm. jubita fima.

This animal, which was fent from Guinea to the Count de Buffon, has a fhorter muzzle than the: former; the diftance between the eye and ear is lefs, and the legs are fhorter; the claws are fimilar: The muzzle, to the ears, is covered with fhort brown hairs; about the ears the hairs begin to grow

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longer ;
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 .

## 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 almof 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 ftick, 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 fufpend himfelf frons the branches of trees: Has a black ftripe on the breaft and fide.

## 5. Five-toed Ant-eater.-Myrmecophaga pentadactyla.

Has five toes on the fore paws; and a long flat tail entirely covered with hair. Sin. Buff. v. $35^{\circ}$. pl. cxlix.
Striped ant-eater. Penn. hift. of quad. n. 73 I .
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 fimall; the ears fmall, 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 ftriped with black or dufky, and on the belly it is of a dirty white colour ; the tail is wholly covered with long tawny yellow hair, barred acrofs with rings of a blackifh tinge: The body, from the tip of the nofe to the rump, is thirteen inches long, and ten inches in height; and the tail is feven inches long.

I46 6.-Befides this animal, which the Count de Buffon fuppofes 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 whitifh hair about two inches long, weighs above fixty pounds, has no teeth, and very long claws; having the fame manners with the other animals of the genus, feeding only during the night, and frequenting the great forefts: But this account is by no means fufficient to afcertain whether it be a diftinct fpecies, or, if only a variety, to what fpecies it fhould be referred.

## 6. Cape Ant- eater.-5. Myrmecopbaga capenfis. 5 .

Has four claws on the fore paws; a long fnout ; large pendent ears; and a tail, which is fhorter than the body, and taper at the point. Pallas, Mifc. zool. 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 afferts that it weighs a hundred pounds: It burrows in the ground, fleeps during the day, and only goes abroad at night.

## VII. MANIS.—7. MANIS. 9.

## Has no teeth: The tongue is round, and very extenfle; the mouth is fmall, and is fituated at the extremity of the fnout; the upper parts of the body are covered with moveable bony fcales.

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 fcales on end ; and; when in danger from enemies, they contract themfelves into a globular figure, the head and tail being drawn together under the belly, fo that nothing appears but a glube, all prickly with erected tharp fcales; the tail is fat, and greatly efteemed by epicures; the whole upper parts of the body are clothed with fcales, which are chanelled at their bafes, and fand fufficiently diftinet 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, breaft, and infides of the legs and thighs, are hairy; and the tail is covered on every fide, even below, with fcales; the ears are rounded and naked; the middle claws of the fore paws are larger than the reft, and thefe are bent under the foot in walking. Thefe animals have a ftrong affinity with the Ant-eaters, from which they chiefly differ in the covering of the body.

## 1. Pangolin.-1. Manis pentadactyla. 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 roundifh fcales. Briff. quad. 29.-Indian fcaly-lizard. Bont. Jav, 60 .-Leffer fcaly-lizard, having briftles interfperfed. Petiv. gaz. 32. t. 20. f. 2.-Larger fcaly-armadillo of Ceylon, called Diabolus tajovanicus. Seba, Muf. i. 88. t. 54. f. I. et 53. f. 4.-Scaly ant-eater, Myrmecophagus fquamofus, or Daemon thebaicus. Herm. Muf. 295.-Pangolin. Sm. Buff. v. 355 - pl. cl.-Short-tailed manis. Penn. hift. of quad. n. 368.-Five-toed manis. Nat. Mifc. pl. in.

Inhabits Guinea, China, India, and the iflands of the Indian Ocean.-This is the larger fिecies of the genus: The fore feet are covered with fcales to their extremity; the fcales are large, thick, convex, not much chanelled, rounded, and fharp at the edges; the under parts of the body have no hair; but, between the fcales on the back, are a few long thick hairs, like hogs briftles: When fult grown, it is from fix to eight feet long, including the tail, which is almoft 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 fcales, and a very long tail. Briff. quad. 31.-Foreign 'fcaly lizart. 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 .

Inhabits India. - This fpecies is much lefs than the former: The fore feet, and even a part of the fore legs, are deftitute of fcales and covered with hair; the fcales are much ftriated, or chanelled, and are each armed with three fharp points; the lower parts of the body are covered with hair, and there are no brifles among the fcales: One, formerly in the Britifh Mufeum, 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. Thefe animals roll themfelves up like a clue, the tail forming a belt round the body, with all its fcales erceted: In this ftate they brave the fury of their enemies, even of the tigers, which endeavour in vain to devour them.

## VIII. ARMADILLO.-8. DASYPUS. 10.

Has no tufks: The grinders are fhort and cylindrical, and of thefe there are feven on each fide in the upper jaw, and eight on each fide of the lower; the body is covered with a teftaceous bony coat of mail, which is interfected by circular bands of the fame kind.

The animals of this genus * live on roots, melons, potatoes, flefh, finf, 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 difpofitions, and defend themfelves from their enemies by rolling themfelves into a globular form, prefenting their fhell or armour on all fides. They chiefly inhabit South America. The females bring forth every month.-As very confiderable confufion feems to have crept into the arrangement of the fpecies of this genus, I have preferred the arrangement of the Count de Buffon, to that of Linnous, in the following enumeration of fecies; but the characters and fynonimes of Gmelin's edition of the Syftema Naturae are preferved.-T.

All the fpecies of this genus are covered on the head, neck, back, flanks, rump, and tail, even to its extremity, with a cruft refembling bone, which is itfelf covered with a thin, fmooth, tranfparent, fkin: The only parts which want this cruft are the throat, breaft, and belly, which have a granulated fkin, like a plucked fowl, on which, by accurate infpection, the rudiments of fcales, fimilar to the cruft, are difcoverable: The cruft is divided into feveral bands or girdles, connected together by membranes, which allow a certain degree of movement to this armour. All the fpecies have two bony flields, one covering the fhoulders, and another on the rump, except the Cirquinçon, or eighteen banded fpecies, which has only that on the fhoulders. They are hunted with little dogs, which give notice, by the fcent, 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. lx̣xi. A. and lxxvi. I. 2.

Cataphractus tricinctus, having two thields and three belts. Briff. quad. 24.-Tatou, or Armadillo. Red. exper. $9^{1 .}$ t. 92. Seba, Muf. i. 62. t. 38. f. 2. 3.-Tat11-apara. Marcgr. Braf. 232. Sm. Buff. v. 366.-Armadilio, or another kind of Tatou. Cluf. cxot. 109. Grew, Muf. 17.-Threebanded armadillo. Penn. hift. of quad. n. 361 .

[^6]Inhabits Brafil.-Lives on melons, potatoes, and poultry. The middle belt, in the armour of this fpecies, is very narrow; and each fcale, of which the fhields are compofed, is knobbed on the furface: The head is oblong and almoft pyramidal; the eyes are fmall; the ears fhort and rounded; and the top of the head is covered by a helmit of one piece: All the feet have five tocs; the two middle claws on the fore feet are very large, the claws on each fide of thefe are fmaller, and the fifth, or exterior claw, is very fmall ; the claws on the hind feet are finaller, and more equal in fize, than thofe before: The body is a foot long, and eight inches broad; the tail is not above two inches long, and entirely covered with cruft : The fhields, on the fhoulders and rump, confift of five cornered pieces, very regularly arranged; the three moveable girdles are compofed of fquare or oblong pieces, having a number of lenticular fcales, of a yellowifh white colour, on each.

Has four moveable bands.
Cataphractus quadricinctus, having two fhields and four belts. Briff. quacl. 25.-Chelonifcus. Fab. Columna, anim. aqu. et ter. ii. 15. t. 16.

Its place uncertain.-Dr Gmelin is uncertain whether this floould be confulered as a diftinct fyecies, or merely as a variety of the Apara? He is likewife at a lofs whether the Four-banded Armadillo of Molina, Hift. Nat. Chil. lib. iv. 270 . be the fame with this, or if it fhould be confidered as a difinct. fpecies.-The Count de Buffon is very angry with Linnæus for admitting this four-banded fpecies on the authority of Columna, who did not know the name of the animal, and had only feen a dricd fpecimen contracted in form of a ball, pafted clumfily together, and even fome pieces of it wanting. Buffon even peremptorily infifts that a Four-banded Armadillo has no exiftence in nature: The circumftance, however, of fuch a fpecies being mentioned by Molina, though not with fufficient accuracy to enable Dr Gmelin to give a fyftematic defcription, flows how much even Buffon ought to have been guarded in animadverting on Linnæus.

Has fix moveable girdles, and five toes on every foot. Muf. Ad. Fr. 7. Schreber, ii. 218. tab. 1xxi. B.

Cataphractus fexcinctus, having two fhields and fix belts. Brifl. quad. 25. - Firft Tatu, or Armadillo of Marcgrave. Raj. quad. 233.-Tatu, or Tatu-paba, of the Brafilians, Armadiilo, of the Spanifh, and Encouberto, of the Portuguefe. Marcgr. Braf. 231. Olear. Muf. 7. t. 6. f. 4. Cluf. exot. 330 .-Encouberto. Sm. Buff. v. 369 . pl. clv.-Six-banded armadillo. Penn. hift. of quad. n. $3^{62}$.

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 fhield. This is larger than the former fpecies. The top of the head, the neck, body, limbs, and tail, are covered with a very hard cruft, compofed of pretty large pieces, moft elegantly placed; on the flin of the joints are feveral whitifh hairs, fimilar to thofe on the throat, breaft, and belly; the fhield on the rump has a fringed border; all the inferior parts of the body are cover-
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 fmall 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 reddifh yellow colour, and is commonly very plump and fat.

## 4. Seven-banded Armadillo.-6. Dafypus Septemcinctus. 5.

Has feven moveable bands; the fore feet have each four toes, and the hind feet five. Amoen. acc. i. 28I. 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 fhield on the fhoulder is notched on its anterior margin.

The Count de Buffon, vol. v. 369 . in a note, quotes Marcgrave as faying, "In dorfo feptem funt " divifurae, cute fufca intermedia." He applies this to the Encouberto, or fix-banded fpecies, and makes the following obfervation, which feems intended as a reflection againft the great Linnæus: "The word divifurae, as well as commifurae, and juncturae, fignify the intervals between the bands, " and not the bands themfelves; feven intervals are neceffary to make fix bands." This criticifm might poffibly be juft, though, even then, I fhould fcruple to fubfcribe to it, if the former part of the fentence, feven divifions on the back, were not followed by the latter, baving a browun fein betrueen each. It is very evident that the brown fkin could not be interpofed between the intervals of the bands, but in the intervals, and between the divifurae; there muft therefore have been in the animal, as defcribed by Marcgrave, and as underftood by Linnæus, feven folid bands or divifions of the fhell, produce. by means of eight intervals.-T.

Has two thields and eight bands. Schreber, ii. 222. lxxiii. lxxvi. f. 5. 6 .
Cataphractus octocinctus, having two fhields and eight bands. Brif. quad. n. 2\%-Aiatochtli. Hernaud. Mex. 3 14.-Tatouete. Sm. Buff. v. 37 1.-Eight-banded armadillo. Penn. hift. of quad. n. 363 .

Inhabits Brafil. - Dr Gmelin is uncertain whether this and the D. Septemcinctus, may not be the fame animal, and whether it differs from the eight-banded fpecies defcribed by Molina in his Natura! Hiftory of Chili, book iv. p. 271. which has five toes on each hind foot? The head is fmall, and covered with a helmet; the muzzle is fharp; the ears are about two inches long, and erect; the eyes are fmall and black; there are four toes on the fore, and five on each hind foot. It is about ter inches long, from the $t \mathrm{p}$ of the nofe to the rump, and the tail is nine inches long, being covered with moveable rings, divided into nine joints by interpofed flexible flin; the cruft on the back is of an iron-grey colour; the flanks and tail are whitifh grey, fpotted with iron-grey; and the belly is covered with a whitifh granulated fkin, interfperfed with a few hairs; the legs are about three inches long; the cruft of the fhields is interfperfed with prominent white knobs, about the fize of fmall peas;
and the moveable bands are marked with triangular figures: The cruft is eafily penetrated, eren with finall fhot; and the flefl is very white, and reckoned extremely delieate eating.

## 6. Nine-banded Armadillo.-8. Dafypus novemcinćus. 6.

Has nine belts; the fore feet have four claws, and the hind feet five. Mur. Ad. Fr. 6. Houtt. nat. ii. 284. t. 16. f. 3. Schreber, ii. 223. tab. Ixxiv. Lxxvi. f. 7. 10.

Cataphractus novemcinctus, having two fhields and nine belts. Briff. quad. 42.-Tatus. Gefin. quad. 935--Tatu-ete. Marcgr. Braf. 235.-Tatu, or American Armadillo. Seba, Muf. i. 45. t. 29. f. I. ~Armadillo, or Aiatochtli. Nieremb. hift. nat. 158. upper fig.-Pig-headed armadillo. Grew, Muf. 18.-Cachichame. Sm. Buff. v. 373. pl. clii.-Nine-banded armadillo. Penn. hift. of quad. n. $3^{64}$.

Inhabits South America, being particularly common in Guiama.-The flefh is very good eating. Dr Gmelin expreffes his uncertainty whether the eleven-banded Armadillo of Molina, having four toes on the fore-feet, and five behind, Hift. Nat. Chil. book iv. p. 271. be a diftinct fpecies, or if it thould belong to this place as a variety? The Count de Buffon thinks it probable that this ninebanded Armadillo is the male of the former, or eight-banded fpecies. The head is five inches long, the body eighteen, and the tail a foot, or perhaps more; as in another fpecimen, confiderably fimaller, the tail was eleven inches, while the body was only feven and a half; the head is long and narrow, with a long fharp pointed muzzle, and longifh blunt ears; the cruft on the fhoulders, rump, and head, is marked with fix-fided figures; and the divifions of the belts with tranfverfe, wedge-like marks.
6.-In the Leverian Mufeum is a fecimen of the fame form, proportions, and number of bands; but the crufts on the head and other parts are covered with large feales, which want the above defcribed figures. Penn. hift. of quad. p. 50 I.

Has twelve moveable bands and five toes on all the feet. Sm. Buff. v. 375. pl. cliii.
Dafypus unicinctus. Syft. nat. ed. Gmelin. p. 54. G. 10. fp. i.-Cataphractus duodecemcinctus, with two fhields and twelve belts. Briff. quad. 43. Schreber, ii. 225.tab. lxxv. lxxvi. f. 11. 12.Tatu, or African Armadillo. Seba, Muf. i. 47. t. 30. f. 3. 4.-Armadillo. Penn. hift. of quad. ก. $3^{65}$.

Inhabits South America. - In the Syftema Naturae, mifled by the miftake of the editor of Seba's Mufeum, it is faid to come from Africa. The covering of the fore part of the back is made up of feven feries of little fhields, and on the hind part of nine. The head is thicker and broader, and the muzzle lefis flender than in the other fpecies; the legs and feet are alfo thicker ; the fhield on the fhoulder is made up of four or five rows, compofed of large fourfided pieces; the moveable bands are alfo compofed of almof fquare and large pieces; thofe of the rump fhield are fimilar to the fhoulder fhield; the helmit is made up of large irregular pieces: Between the joints, and in other parts of the armour, are fone briftly hairs; on the breaf, belly,
legs, and tail, are the rudiments of fcales, whick are round, hard, polifhed, and furrounded with fmall tufts of hair : The head is feven inches long, the body twenty-one inches, and the tail is fhorter than the body.

## 8. Lapgeft Armadillo.-Dafypus maximus.

The legs and tail are covered with a fkin which is divided into regular lonzenge fhaped fcales; the fhell has twelve moveable bands. Sm. Buff. v. 377 . pl. cliv. Penn. hift. of quad. p. 501 .

Inhabits Cayenne.-This has likewife twelve moveable bands; is of a black colour, and much the largeft fpecies of the genus, being two feet ten inches in length, from the tip of the nofe 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 fkin divided into regular lozenge fhaped fcales, as are the legs; the head and muzzle are longifh, and the ears are finall and erect: The female brings forth eight, and fometimes ten, at a litter, in very deep holes. It feeds, during the night, on worms, wood lice, and ants; and the flefh is good, refembling that of a pig in flavour.

Has no thield on the rump, and eighteen bands cover the back, from the fhield on the fhoulder to the origin of the tail. Sm. Buff. v. 377.
Dafypus novemdecemcinctus, or having eighteen bands, with a fimple covering. Syft. nat. ed. Gmelin, p. 55. n. 7. Syft. nat. ed. vi. n. 12. 1. ß.-Cataphractus novemdecemcinctus, having only one fhield and eighteen belts. Briff. quad. 37.-Tatu muftelinus, or Wealle-like Tatu. Raj. quad. 225.-Weanle-headed armadillo. Grew, Muf. 19. t. I.

Inhabits South America.-Dr Gmelin is uncertain if this be really diftinct from the four-banded fpecies, and from the eighteen-banded, defcribed by Molina, Hift. Nat. Chil. book iv. p. 271. which has four toes on the fore legs? All the other armadillos have two fhields, one on the fhoulders, and another on the rump; but this fpecies has only one, which is on the fhoulders. The body is about ten inches long, the head three, and the tail five; the legs are two or three inches long; the head refembles that of a weafel, having a large flat forehead, fmall eyes, and the ears about an inch long; the armour of the head and legs is compofed of round fcales, about a quarter of an inch diameter; that of the neck, in one piece, is formed of fmall fquare fcales; the fhield on the fhoulders is formed of rows of fimilar fcales, adhering firmly together; from thence to the tail are eighteen moveable bands, of which the anterior are larger, and are formed of fquare and oblong pieces, and the pofterior fimaller, and compofed of round and fquare pieces mixed; all thefe bands are united by a flexible. fkin; the firft half of the tail is covered with fix rings of finall fquare pieces, and the reft, to the point, with irregular fcales; the breaft, belly, and ears, are naked.

Has nine moveable bands, and a very long jointed tail. Sm. Buff. v. 390 . pl. clvi. American armadillo. Dr Watfon, Phill. Tranf. liv. pl. 7.

$1010=$


Inhabits America.-Is about the fize of an ordinary cat, and weighs feven pounds: Was fed on Hefh and milk, and refufed grain or fruits.

## IX. RHINOCEROS.-9. RIINOCEROS. $3^{3}$.

## Has a folid, perfiftant, conical horn, fituated on the nofe, and not adhering to the bone.

## 1. One-horned Rhinoceros.- I. Rbinoceros unicornis. I.

## Has only one horn.

Gef1. quad. 842. Raj. quad. t22. Klein, quad. 26. Grew, muf. 29. Worm. muf. 336. Briff: quad. 78. Parfons, in phil. tranf. xlii. 523. Edw. av. tab. 22 1. f. 2. Plin. 1. viii. c. 20. Knorr, delic. ii. IIo.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 Trópics, in marfhy places, being found in Bengal, Siarn, CochinChina, Quangfi in China, in the iflands 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 fpecimens having been feen before the fixteenth century. It lives on thorns and other fipinous 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 fimelling, are remarkably acute: In ftature and magnitude of body, except that the legs are fhorter, this animal equals the elephant, but falls vaftly behind in fagacity and docility: In form, in manners, and in its grunting voice, it comes nearer to the Hog genus, efpecially the Ethiopian fpecies. The fkin is fo hard that it refifts the effect of arrows, fwords, or even of mulket balls, winich rebound from it without doing injury; it is entirely naked, except the tail and ears; it is divided by feveral folds, or tranfverfe plaits, which are very confpicuous and regular in their fituation; ift, behind the head; zd , on the fhoulders; 3 d, from the back down the loins, before the thighs, and along the belly; $4^{\text {thl }}$, crofs the thighs: Thefe allow of motion to the fkin, which is hard and inflexible like a fhell or coat of armour; the infide of the plaits being compofed of a very foft pliabie flain; the fkin on the belly is foft, like that within the plaits; the flefh is coarfe, fipongy, and hardly eatable; the tongue is foft and fmooth; the horn is fibrous in its texture, furrounded with coarfe hair at the root, is conical, and tapers to a fharp point, and is fomctimes three feet long: In adults there are no fore-teeth, bit, in young animals, a few folitary fraggling cutting teeth are found, which fand at confiderable diftances from each other; the feet have each three hoofs, which are placed on the fore part; the tail is fmall, narrowing towards the point, and only reaches to about the middle of the hind legs.

Has two horns.
Syft. Nat. ed. x. p. 56. n. 2. Sparman, act. Holm. 1778; trim. 4. n. 5. Do. voyage to the Cape of Good Hope, 4 to, London, 1784 , vol. ii. 96 . pl. 3. Martial, fpect. epig. 22. Phil. tranf. abr. ix. 100. \& xi. g.ro. Phil. tranf. lvi. 32. t. 11. Kolben, ii. ro1. Flacourt, Madagaf. 395. Lobo, Abyf. 230. Bruce, Abyf. v. 85 . \& fig. Penn. hift. of quad. n. 66 . pl. xv..

Inhabits Africa.-The bones of this animal, as we are lately affured by Pallas, are often found bur-. ried even in the north of Rufina. This fpecies or variety, is formerly mentioned by Paufanias and Martial, is reprefented on the Preneftine pavement, and on a coin of the Roman.Emperor Domitian, and is defrribed by Cofmas $\pi$ gyptius, who travelled into Ethiopia, in the fixth century, under the reign of Juftinian. The difference between this and the former fpecies can fcarcely be attributed to age or fex; though Dr Gmelin feems hardly to confider them as different fpecies. The flefh refembles that of the hog; and the vifcera are fimilar to thofe of the horfe; it has no gall-bladder, and no fore-teeth; the fecond horn is fituated above the firft, or nafal horn, nearer the fore-head. A variety of this fipecies, having three horns, occurs very rarely; the third horn being only a kind of excrefence from one of the other two.
If both Sparrman and Bruce are faithful in their reprefentations of the Rhinoceros with two horns, the animals they defcribe are by no means of the fame fpecies: The figure given by Mr Bruce exactly correfponds with the defcription already given of the one-horned Rhinoceros in every thing but the additional horn, fo that, muitatis muttondis, it may ferve for either; on the contrary, thie figure given by Sparrman differs totally from that: of the one-horned fpecies, for the remarkable folds on: the fkin are entirely wanting: Sparrman has the good fortune to have the anthenticity of his reprefentation not a little ftrengthened by the figures of two Rhinocerofes, each with two horns, one on the Preneftine pavement, and another on a medal of Domitian, in both of which the fkin is. fmooth. I am therefore forced to believe that the Abyffinian Rhinoceros, as reprefented by Mr Bruce, is only a variety of the Afiatic, or one-horned kind, while that. of Sparrman is a diftinctly different fpecies.-T.

## X. SUKOTYRO.-SUKOTYRUS:

## Has a horn on each fide of the head clofe to the orbits.

## 1. Javan Sukotyro.-Sukoiyrus indicus.

Has a fhort, 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 Inand of Java.-The Sukotyro, as the Chinefe call it, is a very odd fhaped beaft; it: is of the bignefs of a large ox, with a f nout like a hog, having two long rough ears, and a thick bufly tail; the eyes are placed upright in the head, quite different from other beaffs; on the fides. of the head, next to the eyes, fland two long horns, or rather teeth, not quite fo thick as thofe of the Elephant; it feeds on herbage, and is but feldom taken. This is the defaription given by Mr Nieu-
hoff. By the figure, this animal is very thiek and clunfy, with frong thick legs and feet; which laft are each armed with four knobs, or half hoofs, on their fore parts; the nofe 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 flin is fmooth, and is entirely free from plaits, like thofe on the one-herned Rhinoeercs.

## XI. ELEPHANT.-io. ELEPHAS. 5.

Has no fore-teeth in either jaw, and no tufks in the lower jaw; the tufks of the upper jaw are very long, and ftretch far out of the mouth: Has a long, exteníle, and flexible, cartilaginous trunk, or probofcis, on the nofe, which is capable of laying hold even of very minute cbjects. The body is almoft naked.

## 1. Great Elephant.-1. Elepbas maximus. I.

There is only one known fpecies of this genus.
Elephas. Briff. quad. 45. Raj. quad. I3I. Seba, Muf. i. t. iii. f. I.-Elephantis. Gefn. quad. 377. Aldr. quad. l. i. c. g. Jonft. quac̉. 30. t. 7. 8. g. Edw. av. t. 221. f. i.-Elephant. Sm. Buff. vi. i. pl. elxiii.-Great Elephant. Penn. hift. of quad. n. 7o. Schreber, ii. 6c. tab. lxxviii. Br. muf. Afhm. muf. Lever. muf. Hunter's muf. Petr. G. Camper, Elephantographia, Lipf. $1723^{\circ}$ P. Gilius, nov. defc. Eleph. at the end of Elianus de anim. Lugd. 1565, viii. 497--525. Fr. Serao, op. de fific. Napol. г765. v. 1.-62. t. 1.-Its anatomy. Bibl. med. Dublin. 168 I.

Inhabits the Torrid Zone, in Afia 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 Arubs; being principally deftructive to plantains, or the Mufa paradifaca, Coceo palms, and the Guilandina femina, devouring even the wood of the mula; and feeds voracioully on grain, doing vaft damage in corn fields. It is a gregarious animal, remarkably long lived, very docile, and exceedingly fagacious, notwithftanding that the brain is extremely fmall in proportion to the bulk of the body. The probofcis, which is compofed of a great number of eartilaginous rings, is very long, and is capable of extenfion and eontraction in every direction; it is finooth below, and truncated at the extremity, where it is provided with a moveable hook, which ferves the purpofe of a hand, and with which the animal can lift the fimalleft objects from the ground with great aceuracy; this trunk is an extenfion of the canals of the nofe, and is divided, through its whole length, by a continuation of the feptum; by means of this, the animal is delieately fenfible of fmells; by it, likewie, he carries foni and drink to the mouth, fucking up liquids, through its eanals, into receptacles within the head, afterwards injecting them into the mouth; this is likewife a chief inftrument of oftence againf er: mies, and is fo.very neceflary, that, when the trunk is eut off, the animal unavoidably dies exceedingly afraid of mice, left, when afleep, they fhould get through the trunk into the wind

The male difcharges his urine backwards; and the female has to lie on her back in copulation, and goes a year with young. The young fucks the mother by means of its lips applied to the teats, not by the trunk.

This is the largeft of all the race of quadrupeds, fome having been found which weighed four thoufand five hundred pounds. It carries vaft loads on the back, fometimes even houfes, and is guided by a keepcr, named Cornack in the eaft, who rides on the animal's ncck. He marches on with a tolerably quick pace, and fwims with great dexterity: Is armed,' and cmployed in war, by the Indians; and, of oll, was ufed in the fame way by the Romans, being armed with crooked fcythes; but, fince the invention of gun-powder, this animal has become greatly lefs proper for the purpofes of war. When exceedingly furious, and dangeroufly ungovernable, they are readily killed by means of a fmall wouad, between the firft and fecond vertebrae of the ncck, which, penetrating to the final marrow, inftantly deprives them of motion. The body is afh coloured, feldom reddifh or white, ladving only a fcw fcattered hairs. The fkin is exceedingly thick, hard, and tough, yet may be pierced by a mufket ball, and is cven. fenfible to the punctures of flies. The eyes are fmall; the tufks, which are only in the upper jaw, arc ftretched out from the mouth to a great length, refembling liorns, and are marked with fibrous grains; thefe are the ivory of the fhops, and are often fo 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 fhort; the female has two fmall dugs near the breaft, a little behind the fore legs; the knees, contrary to vulgar opinion, are fiexible; the feet are covered with a very tough and thick flin, which may be friped 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 aails, five on each fore foot, and four on each behind, it feemed more proper to arrange him in this. order, more efpecially 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 everr. in the frigid Zones, and in America. Vide Pallas, Nov.-com. Petrop. xiii. \& xvii. Merk, fur les os foniles d'Elephans et de Rhinoceros, \&c. Darmft. 17.86, 4. Eettres 1.-3.

## 2. American Elephant.-Eleptias americanus.

In America, on the banks of the Ohio, are found, feveral feet below the furface, in a marfhy place ealled Big-bonc-fwamp, great numbers of tufks and grinders, fuppofed by many to belong to the Elephant: But the grinders are totally different, being covered uniformly with enamel, and furnifhed with a double row of high conic proceffes, like thofe of carnivorous animals; whereas thofe of the Elephant are compofed of alternate perpendicular layers of bone and enamel, and are ribbed tranfverfely on their uppcr furfaces, like thofe of graminivorous quadrupeds: Hence the feecies muft be entircly different; and Mr Pennant has chofen to fuppofe that they have belonged to an unknwn fpecies of this genus, which he names the American Elephant. Hift. of Quad. n. 71. Thefe teeth and. bones arc likewife found in Peru and Brafil. Mr Pennant and Dr Gmelin affert, from various authorities, that the foffile bones and tecth, fo often found in. Siberia, muft be referred to the true Elephant ; and various hypothefes have bcen devifed, to explain in what manner this inhabitant of the Torrid Zonc fhould have wandcred to the fixtieth degree of north latitude for a grave. Where fuch great authorities are on one fide, my feeble voice will fcarcely be heard on the other; but I can fafe-
ly affert, that all the grinders engraved in the fupplemental vol. ix. of Smellie's tranflation of Buffon, and all thofe which $I$ have feen in various cabinets, under the name of foffile, from America and Afia, exactly refemble thofe which Mr Pennant attributes to the American fpecies of Elephant, and muft, from the circumftances already pointed out, have belonged to an animal not in the leaft degrce congeneric with the elephant. What this animal is, or has been, I pretend not to determine; but the opinion of the great Linnxus, that it is the Morfe, or 'Trichechus Rofmarus, is, I think, extremely probable; efpecially when it is confidered that thefe bones have all been found by the fides of rivers, in places where, in all probability, the fea once flowed, though, by its gradual decreafe, they are now become dry land: If not arms of the fea, thefe may have been vaft inland lakes, like thofe ftill in America, and other places, which have broken through their lower banks and run out their waters. Many vaft valleys, at great diftances from the fea, ftill bear evident marks of this revolution; and even tradition, in fome places, as in Cafhmire, points out the era. 'This remarkable circumftance of the converfion 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 courfe, by the Rock bridge; here the waters have dug themfelves a fubterraneous paflage, more than a hundred feet beneath the level of the cataract over which they muft formerly have flowed.-T.

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\text { XII. W A L R US.-II. } \mathcal{T} R I C H E C H U S .6 .
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Has no fore-teeth, when full grown: Has two great tufks, in the upper jaw, which point downwards: Has grinders on each fide in both jaws, which are compofed of furrowed bones. The body is oblong; the lips are doubled; and the hind legs are ftretched backwards *, and, as it were, bound together, forming a kind of tail fitted for fwimming.

All the fpecies of this genus inhabit the fea, and feed on fea-weeds, corallines, and teftaceous animals, or fhell fiflh, never eating fleth.

## 1. Morfe.-I. Trichechus Rofmarus. I.

The tufks, which extend far out of the mouth from the upper jaw, are diftant from each: other. Houtt. nat. ii. 7. t. II. f. I. Schreber, ii. 26́2. tab. 1xxix.

Odobenus. Syft. nat. ed. x. 38. Briff. quad. 48.—Rofmarus. Jonft. pifc. t. 44: Worm. muf: 289. Olear. muf. $3^{8 \text { 8. t. 23. f. 3. Bonnon. muf. 269. f. 27. Gefin. aquat. } 2 \text { II.-Sea-horfe, Equus }}$ marinus, improperly called Hippopctanus. Raj. quad. r91. Elis, Hudfon's Bay, t. 6. f. 3.Wallrofs. Martin's Spitfbergen, 78. t. 1. f. B.-Morfe, or Walrus. Sm. Buff. rii. 354. tab. ccl.Aretic Walrus. Pemn. hiff. of quad. n. 373. Aret. zool. n. 71. Br. muf. Afhin. muf. Lev. muf.

Inhabitz;

- 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 Afia, but does not extend to the iflands between Kamtfchatka and America.-This is a gregarious animal, being found in herds even of fome hundreds:: They are very fhy, and avoid the haunts of mankind; are very fierce, defending themfelves againft their enemies with great obftinacy, and, if wounded in the water, will attempt to fink the boats of their affilants, either by rifing under them, or by friking their great tuiks 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 themfelves with great impetuofity into the fea when difturbed. The youger animals have two fmall fore-teeth in the upper jaw ; and both young and old have two fharp tulks, very diftant from each other, which fand 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 compofed of delicately interwoven fibres, of a very fine white, and not readily becoming yellow, but the nucleus, or inner central part, verges towards a brownifh colour ; on each fide of each jaw there are four fmall fliarp grinders, having a fmeoth pit, or hollow, worn out of each, near the apex or fummit: The lips are very thick, and are-garnifhed with long tranfparent briftly whifkers, as thick as ftraws; the noftrils are of a femilunar form; the head is round; the mouth fmall; and the eyes are fmall and fiery; the neck is very thick; there are two fmall orifices to the organ of hearing, without any external ears; all the feet have five toes, which are provided with fhort claws; the fore legs are loofely articulated with the body, and fhort; and the hind legs are much extended backwards on a line with the body, ftanding clofe together, and ferving more as a tail fin, for fwimming, than as feet; the tail is very fhort: The penis of the male is long. The Ruffians have long been in ufe to make traces for carriages of the flkin, which has of late been employed in France for the fame purpefe. This animal is very fat, and is much hunted for the fake of the oil, as one Morfe will frequently produce half a ton. The fkeleton of this animal, thrown on fhore by ftorms, 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 thickeft part.

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 Horfe-whales, which have teeth of great value, fome of which he brought to that King *.

## 2. Dugon.-2. Trichechus Dugon. 3.

The tufks, which extend out of the mouth from the upper jaw, are placed near eaciz other.
Dugon. Sm. Buff. vii. 370. Schreber, ii. 93.-Indian Walrus. Pemn. hift. of quad. 11374.
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 fpecies, there are no tufks in the under jaw, but thofe in the upper jaw are placed near each other, are bent outwards, and pefemble cutting teeth, only that they are near fix inches long; there are four grinders on

[^7]each fide in the upper jaw, and three in the lower; thefe laft are diftant from the tufks, and are broader than thofe of the Morfe: The female has two teats on the breaft. The chin has a brittly beard; the ears are fhort; the feet broad; and the legs fo fhort that the belly trails on the ground. When full grown, the animal is fix ells in length; the male being rather larger than the female, which has breafts like a woman: It feeds on a green fea mofs, or weed, which grows near the fhore. The figure, manners, and hiftory, of this animal, are very imperfectly known; but we are informed that its flefh eats like beef.

## 3. Fifli-tailed Walrus.-3. Trichechus Manatus. 2.

Has no tufks, and no hind feet. Art. gen. 79. fyn. 107..
Of this fpecies the following varieties are noticed by Zoological writers.

## a. Lamantin.-2. a. Trich. Manatus auftralis.

Is hairy; having three toes, provided with claws, on the fore paws.
Manatus. Rondel. pifc. 490. Gefn. pifc. 213 . Hern. mex. 323. Brifi. 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 fre-quently enter, feldom going far from the fhore. The Lamantin varies in fize from eight to feventeen feet long, is fix or feven in circumference, and from five hundred to eight hundred pounds weight: The fkin is of a dark or black afh colour; there are nine fquare fhaped grinders on each fide in each jaw, which are covered with a glafly cruft of enanel ; the back bone has fifty joints, or vertebrae : It is a thick, clumfy animal, having no properly diftinct neck, as the body continues almoft of an equal thicknefs to the head, which is fomewhat of a conical hape, with a cylindrical muzzle and thick flefhy lips, the upper one hanging down at the fides like the chops of a hound; the eyes are very fmall, 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 fhoulders, and confift of three articulations, the foremof being flat, having five complete toes beneath the fkin, hardly decernible on the outfide, and three or four flat rounded nails externally of a fhinning reddifh 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 clofe to the water. There feems 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 frefh 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 de-lights in mufic; hence, according to fome authors, it is probabiy the Delphinus, or Dolphin, of the: ancients; and fome believe, that what has been written concerning. Mermaids and Sirens muft be referred to this animal. It has a voracious appetite, and is perpetuaily eating: It is monogamious, or lives in fainilies of one male, one female, a half grown, and a very fmall young one; copulates in the fpring, the female at firit flying in various playful circles, and then throwing herfelf on her back to receive the male: When pafturing on the aquatic plants, the back is often above water; and, as the
flin is full of a fpecies of loufe, numbers of fea fowls perch on them to pick out the infects: They bellow like bulls: Their fight is very weak, but their hearing extremely acute; the fore feet are palmated and fin-fhaped, almoft like thofe of a fea turtle; and inftead of hind feet they have a horizontal tail ; they have no external ears; the noftrils are diftinct, and at a diftance from each other; the females have two teats about the breaft; the upper lip is full of fnarp, prickly, rigid briftes. This animal has great affinity to the Whale and Seal tribes. The flefh is very good eating.

## Has no hair, and the feet have neither toes nor nails.

Manati, called by the Ruffians Morfkuia Korowa. Steller, Nov. com. Petrop. ii. 294. Schreber, ii. 95 . Hif. of Kamtfchatka, 132. Whale-tailed Manati. Penn. hift. of quad. n. 390. Arctic zool. n. 81.

Inhabits the north-weft coaft of America, the north-eaft of Afia, and the iflands which lie between thefe two coafts. -This animal very often enters the mouths of the rivers; is fometimes twenty-three feet long, and weighs eight thoufand pounds; the fkin, while wet, is of a brown colour, but becomes black when dry. Inftead of grinders, this fecies has, on each fide 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 fhoulders 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 almoft fquare, with a fmall mouth, double lips, which are full of ftrong briftles that ferve the purpofe of fore teeth to cut the fea plants on which they feed; near the junction of the jaws, the infide of the mouth is full of white tubular briftles, which are fet in fuch a manner as to prevent the food running out along with the water; the eyes are very fmall, not larger than thofe of a fheep; and the orifices which lead to the internal ears are very minute; near the floulders 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 fiff black fin, like whalebone, much fplit at the fore part, and flightly forked; the flin is very thick, black, full of inequalities like the bark of a tree, fo lhard as fcarcely to be cut with an ax, and is deftitute of hair.

## r. Sea-ape.-Trich. Manatus Siren.

Has fharp erect ears. Penn. hift. of quad. n. 392. Arct. zool. i. i8 i.
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-weft coaft of America; was five feet long, with a head refembling that of a dog, having fharp ereet ears, large eyes, and a fort of beard on both lips : The boly was thick, round, and tapering; thickeft near the head, and fmalleft at the tail, which was divided into two unequal lobes, the upper one longer than the other, and neither feet nor paws could be obferved. This creature was full of frolic and monkey tricks, fwam round the fhip, looking at it with great amazement, fometimes raifing its boily a third part out of the water, and ftanding erett for a confiderable time; at other times dived, and brought up a fea plant like a gourd, which it toffed about, playing numberlefs fantaftic tricks. From this animal, more probably than from either the Lamantin or Manati, the fables concerning Sirens and Mermaids have taken their rife. -T.
III.

## III. F E R Æ.

## Have fix fharp-pointed fore-teeth in the upper jav;

 and fingle tufks on each fide in both jaws.XIII. S E AL.-12. P HO CA. iı.

Has fix fharp-pointed fore-teeth in the upper jaw, which are parallel to each other, the two outermoft being larger than the reft; and four rather blunt fore-teeth in the lower jaw, which are parallel to each other, and equal in their fize: The tufks, of which there is one on each fide in both jaws, are twice the length of the fore-teeth, ftrongly made, and fharp-pointed; of thefe the upper are diftant from the foreteeth, and the under from the grinders: The grinders, of which there are five on each fide above and fix below, are clofe fet, and have three knobs on their grinding furfaces: Has no external ears, and the hind legs are ftretched much backwards, and, as it were, bound together, or fettered.

1. Urfine Seal.—1. Phoca urfina. I.

Has external ears. Schreber, iii. 28g. tab. Ixxxii.
Urfus marinus. Steller, Nov. act. Petro. ii. 331. t. 1 5. Briff. quad. ı66.-Sea-cat. Hift. of Kamtfchatka, 123. Muller. exped. 59.-Urtine Seal. Penn. hift. of quad. n. 387. Arct. zool. n. 79 .

VoL. I.

Inhabits the fea coafts near Kamtfchatka, and in that latitude both in Afia and America, particularly in Bering's Ifland; is found alfo in New Zeland, Staten-land, New Georgia, and Falkland's Iflands.-This fpecies fwims with great impetuofity; is polygamous, one male living in family with many females and their young ones, fometimes in one flock amounting to a hundred and twenty; copulates on fhore, the female lying on her back for the purpofe: It fcarcely fears the approach of mankind, and will even bite a fone, if thrown at it. The old males, which are deftitute of females, and become very fat, live apart from the reft. Each animal has a particular ftone, which ferves for its bed, and which it never deferts. The males are exceedingly fierce and quarrelfome, fighting bitterly on account of their females, and for their particular ftations: Thefe battles are always fingle combats, and fair play is preferved among them: When one is beaten another comes up to his affifance and takes his place, and fo on in fucceffion, never two againft one, until the whole flock of a particular landing place gets involved in a general battle. When grieved, they fhed great floods of tears.

Of a brown colour : The fore part of the head, or fnout, of the male, has a creft or long projection. Schreber, iii. 297. tab. 1xxxiii.

Sea-lion. Anfon's voy, tab. ioo. Ellis's Hudfon's Bay, tab. 6. f. 4. Sm. Buff. vii. 347.-Seawolf, Loup marin. Pernetty, voy. ii. 40. t. I I. f. I.-Bottle-nofed Seal. Penn. hift. of quad. n. 388.

Inhabits the fhores towards the South Pole, the coaft of Chili, New Zeland, Juan Fernandez, Falkland's Iflands, and New Georgia.-The male has a hairy projection at the bafe of the fnout, 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, ftand out a little way from the mouth; the eyes are large; and the mouth is furrounded with large coarfe whifkers, the briftles of which are white, and furrounded with reddifh rings; all the feet are webbed, having five toes both before and behind, which are furnilhed with flat, oblong nails, fomewhat pointed at the extremities; the hind feet are much ftretched backwards, and fettered, forming a flat horizontal tail, like two great bifurcated, or two-lobed, fins, the outermoft toe being thicker than the reft; between the hind legs is a very fmall tail, only two inches long. The animals of this fpecies fwim 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 cafe of danger. The male of this feecies is often twenty feet long, and fifteen feet in circumference; the female is only twelve feet long, and feven or eight feet round: The flkin is very thick, and is covered with dun or ruft coloured hair; which, on the neck of the male, is a little longer than on the reft of the body: They are of a very lethargic difpofition, and fond of wallowing in miry places, tumbling over each other like fwine; they fometimes grunt like hogs, and at other times finort 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 abftain almoft entirely from food for two months. The flefl is eaten by failors, who, long confined to falt meat, think it is tolesable beef.

The neck of the male is covered with a long flowing mane. Schreber, iii. 300 . tab. 1xxxiii. 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. $3^{60}$. Pernetty, voy. ii. 47.t. 1o. Cook's voy. ii. 203. Forfter's voy. ii. 513 . - Leonine Seal. Penn. hift. of quad. n. 389. Arct. zool. n. 30.

Inhabits the fea on the coafts of the northern Pacific Ocean, the weft coaft of America, Falkland': Iflands, Patagonia, Kamtfchatka, and, more efpecially, the iflands which lie between Kamtfchatka and America, and the Kurile iflands. - The colour of the male is reddifh, the young animals being more dufky, and the females brighter in colour. It is larger than the laft fpecies, as the males fometimes are twenty-five feet long, and weigh fifteen or fixteen hundred pounds. The voice is like the bellowing of a bull: The head is large, having a fhort nofe, fomewhat turned up at the end, and large, long, thick, and ftrong whifkers; the eyes are large: On the neck and fhoulders of the male is a great mane of coarfe, long, flowing hair ; the reft of the body is covered with a fhort, finooth, glofly fur; the fore feet are black, and refemble flat leather-like fins, without any appearance of toes; the bind feet are very broad, having very fimall nails, with a long, narrow, fripe of membrane beyond each; the tail is very fhort ; the hinder parts are very large, much fivelled, and exceffively fat. This fpecies lives in families, each male having many females; they have a fierce look, but fly the approach of man; the males are very lazy, and exceedingly quarrelfome about their females and refting places; they faft in breeding time for three or four months, fwallowing great quantities of ftones to keep their ftomachs diftended.

## 4. Common Seal.-4. Phoca vitulina. 3 .

Has no external ears ; the neck is fmooth; and the body is of a dark brown colour. Schreber, iii. 303 . tab. Ixxxiv.
Phoca, f. Vitulus marinus, Seal, Sea-calf, Phoque, Veau marin, Loup de mer. Gefn. aquat. 702. Aldr. pifc. 722. Jonit. pifc. 44. Dodart, 191. Raj. quad. 189. Steller, Nov. act. Petrop. ii. 290. Sm. Büf. vii. 330. pl. ccxlviii. Rondel. pifc. 458. Belon, poil. 25. f. 26. Penn. hift. of quad. 11. 375. Arct. zool. n. 72. Oedman, act. Stock. nov. an. 1784. trim. 1. n. 10.-The anatomy, E. N. C. d. 1. a. 9. obf. 98. d. 3. a. 7. app. 15.

Inhabits the feas near the coait in moft parts of the globe, chiefly in the north, near the Arctic Circle, and in the lower parts of South America.-It fleeps generally on fhore, on a ftone ftanding a confiderable height above the water. The head and nofe are flat, with large waved whifkers, and oblong noftrils; the eyes are large, having a fpherical criftalline humour, as in fifhes, and a membrana nictitans; the tongue is cloven; the toes have ftrong fharp claws; and the foramen ovale of the heart remains open, even in adults; the body is covered with thici, fhort hair, lying fmooth; and is of various colours in different parts of the world, conftituting, perhaps, diftinct varieties of the fpecies: It is dufky, afh coloured, whitc or pearl coloured, grey, black, or varioufly fpotted, or brindled with white or with yellow.

The females, in autumn, bring forth mofly two young at a time, which are at firf white and woolly; they fuckle thefe by means of teats which are fituated on the belly, for fix or feven weeks,
in caverns, or hollow places of rocks, and then take them to fea. This animal cannot remain long below water, but muft rife often to breathe: It fleeps, in the fummer, on rocks or fand banks, precipitating itfelf, when furprifed, into the fea; or, if at too great a diftance to get there, it fcrambles along, flinging 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 eafily killed by a blow on the nofe, but bears numerous wounds on other parts: Swims with great ftrength and fwiftnefs, and fports without fear round fhips and boats; is of a gentle nature, very docile, and may be tamed, and taught to obey a keeper almoft like a dog: It never goes far from the land; feeds on all kinds of fifh, and gets enormouny fat during the time that herrings are on the coait. The flefh is very good food; the fkin is ufeful, making good fhoe leather, and the oil ferves many valuable purpofes.
. Befides the common feal, on all the coafts of the north of Europe, including the Britifh iflands, the following varieties are enumerated in Dr Gmelin's edition of the Syftema Naturae.
$\beta$. Bothnic common Seal, - Ph, vit. botnica. 3. $\beta$.
Differs from the preceding variety by having a broader nofe, and longer nails or claws, and being of a darker colour. Linn. faun. Suec. p. 2.

Inhabits the Gulph of Bothnia, in the Baltic.
\%. Siberian common Seal.-Pb. vit. Jibirica. 3. $\%$
Is of a filver white colour.
Inhabits the lakes Baikal and Orom, in Siberia.
8. Cafpian common Seal. - Ph. vit. cafpica. 3. d.

Is of a mixed or mottled colour.
Inhabits the Cafpian, and the rivers which fall into that fea.

Has no external ears; only four cutting teeth in each jaw ; the fore paws are not di. vided, 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, chielly on the coaft of Dalmatia. When this animal is placed on its. back, the $\mathbb{1 k i n}$ of the neck folds into the fimilitude of a Monk's hood. The head is fmall, having a longer neck than in the common fpecies; the orifices of the ears are very fmall; the hair is fhort, rude, and of a dufky colour, fpotted with afh colour, and having a tawny fot above the navel: The whole body is eight feet feven inches long, and five feet round.

The head is fnooth, and has no external ears; the body is grey, with a black moonlike mark on the fide. Erxleben, Syft. mam. 588.
Swartfiide. Egede Greenl. fig. p. 62.-Attarfoak. Crantz Grocnl. 163.-Harp Seal. Penn. hirt. of quad. n. $3^{85}$. pl. li. Arct. zool. n. 77.-Krylatca, of the Ruffians. Lepechin, act. Pctrop. part i. 259 . tab. vi. vii.
Inhabits Greenland, Newfoundland, Iceland, the White Sea, the Frozen Ocean, and as far as Kamtfchatka. - The head is black and pointed, having fhort whikers on both lips, and on the nofe; the body is thick, of a whitifh colour; and, when the animal is five years old, it gets an irregular femilunar black mark on each fide, the horns of the crefcent pointing upwards: Both the fore and lind paws have diftinct nails; and there is a fmall fhort horizontal tail between the hind legs: It is nine feet long when full grown. This animal is called Harp, or Heart Seal by the Britill fifhers, who call the black mark its faddle. It is much efteemed on account of the goodnefs of its fkin, and large produce of oil.
B. Bedlemer.-Pboca groenlandica nigra.

This is a blackifh variety, which is fuppofed by the fifhers to be a young animal of the Swartfide, or Harp fpecies, laft defcribed. Penn. hift. of quad. p. 525 .

Inhabits the Greenland and other northern feas.
7. Neitfek.-7. Pboca bifpida. 7 .

The head is fmooth, and has no external ears; the body is of a pale brown colour, having rough briftly hair. Erxleben, man. 589. Schreber, iii. 312 . tab. lexxvi.
Phoca foetida, or Stinking Seal. Muller. zool. 8.-Neitfek. Crantz Groenl. 164.-Rough Seal. Penn. hift. of quad. n. 383. Arcl. 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 almoft to the hind feet; the hair is long, erect, and clofe fet, having curled wool intermixed: It is of a dufky colour, ftreaked with white; fometimes white, with a dufky line along the back; never exceeds four feet long; feldom goes out to fea, but lives on the fixed ice near the fhore, where it couples in June, and brings forth in January ; feeds on fhrimps and fmall fifh ; fleeps often on the furface of the water, and hence frequently falls a prey to eagles: The flefh is red, fetid, and naufeous, efpecially that of the males.

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## B. Newfoundland Seal.-Pboca bifpida quadrata.

## Is of a large fize, and has a rough hairy fur.

Square Phipper. Arct. zool. i. 16 r.
Inhabits Newfoundland.-Seems allied to the former by its coat, which refembles that of a WaterDog, but is vafly larger, weighing five hundred pounds.

## 8. Klapmus.-8. Phoca crifata. 8.

Has a creft on the fore part of the head ; and the body is of a grey colour. Erxleben, man. 590.

Klap-1nyfen. Egede Groenl. 62. t. 6.-Bladrufclus. Olaffen, In. i. 283.-Neitfer-foak. Crantz Groenl. i. 164.-Hooded Seal. Penn. hift. of quad. n. 384. Arct. zool. n. 76.

Inhabits the fouth coafts of Greenland, the weft of Iceland, and Newfoundland.-Is of a large fize, having the flkin covered with a thick coat of black wool interfperfed with white hairs; has a ftrong folded fkin on the fore-head, which falls over the eyes and nofe, protecting it from fones and fand in ftormy weather. The hunters alledge that it is neceffary to remove this ikin before they are able to kill the animal.

## 9. Great Scal.—o. Píoca barbata. 9.

The head is fmooth, and without any external ears; and the body is biackifh. Muller. zool. 8.

Utfelur, Wetrarfelur. Olaf. If. i. 260.-Utfuk. Crantz Groenl. i. 165.-Lachtak. Steller, Nov. com. Petrop. ii. 290.—Sea-calf. Parfons in Phil. Tranf. ix. 74. tab. v. -Great Seal. Penm. hit. of quad. n. 382. Arct. zool. n. 73.-Grand Phoque, or Large Seal of the northern ocean. Sm. Buff. vii. p. 342.

Inhabits the coafts of Scotland, the fouth of Greenland, and is common about Iceland.-In November or December, the females bring forth generally two young ones, which are of a white colour: In adults, the fkin is thick, and is covered with blackifh hair. This animal refembles the Common Seal, but is much larger, as that does not exceed fix feet long, while the prefent fpecies grows to twice that length.

The head is fmooth, and has the rudiments of external ears; the body is brown. Schreber, iii. 3 14. tab. luxxy.

Vitulus marinus. Belon. aquat. 19. t. 21.-Vitulus Mediterraneus. Rondel. pifc. 453.-Veaiu marin, or Sea-calf. Dampier, voy. i. i16.-Loup marin, or Sea-wolf. Ulloa, voy. ii. 2.? 26.?Vitello marino picciolo. Aleff. quad. iv. t. 171.-Petite phoque, or Small Seal. Sm. Buff. vii. 337. pl. ccxlix. Little Seal. Penn. hift. of quad. n. 386.

Inhabits the coafts of the Atlantic, the Mediterranean, Chili, and Juan Fernandez.-This is the $\Phi$ wen of Ariftotle 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 flightly divided into three points; the webs of the feet extend far beyond the nails; the hair is fmooth, longer than in the Common Seal, of a dufky colour on the head and back, and brownifh on the under parts of the body. The body and head meafure about two feet two inches in length.

Has a longifh fnout, and longifh external ears. Syft. nat. ed. Gmel. 9. 11. fp. 9. note.
Phoca porcina. Molin. hift. nat. Chili, iv. 248.
Inhabits the coafts of Chili and Juan Fernandez.-Dr Gmelin is uncertain whether this may not be a variety of the little Seal, laft deffribed: It differs, however, by the marks in the fpecific character, and by laving five toes to each foot.-T.

## 12. Long-necked Seal.- Pboca mutica.

Has a flender body, and no claws on the fore feet. Grew's mur. 95.
Long-necked Seal. Penn. hift. of quad. n. 377. Parfons in Phil. Tranf. xlvii. tab. vi.
Its place and hiftory are unknown. - The length, from the nofe to the fore legs, is as much as from thence to the tail. The fore feet refemble fins.

## 13. Falkland Seal.-Phoca aufralis.

Has thort pointed external ears. Penn. hift. of quad. n. 378. Brit. Muf.
Inhabits the Falkland inles, and probably about Juan Fernandez.-Is of a cinereous colour, the hairs being tipt with dirty white; the nofe is fhort, and befet with ftrong black briftles; the external ears are fhort, narrow, and pointed; the upper fore-teeth are tranfverfely furrowed, and the lower longitudinally; on each fide of the tufks is a fmaller fecondary tooth; the grinders are conical, having a fmall procefs on one fide of each, near the bafe: The fore feet have no claws, but five diftinct toes may be felt within the $\mathfrak{l k i n}$, which extends far beyond their extremities; the hind paws have each four long ftraight claws, and the ikin ftretches far beyond them: The head and body meafure about four feet in length.

> 14. Parfons Seal.-Pboca tefudo.

The head refembles that of a Tortoife, having a fender neck; and the feet are like thofe of the Common Seal.

Tortoife-headed Seal. Penn. hift. of quad. n. 379.
This fpecies or variety is very little known. Mr Pennant fays that it is defcribed by Dr Parfons, but does not inform us where to find his defcription, and that it is found on the fhores of many parts of Europe.
15. Harnaffed Seal.—Pboca fafiata.

Is of a blackifh colour, and marked acrofs the neck, along the fides, and crofs the haunches, with yellow ftripes refembling harnefs.
Rubbon Seal. Penn. hift. of quad. n. 380. pl. at p. 5 13. Arct. zool. n. 78.

Inhabits the Kurile iflands.-The fkin is covered with very fhort, fine, gloffy and briftly hair, of an uniformly blackifh colour; and is marked along the fides, and acrofs the neck and crupper, with regular narrow ftripes of a yellow colour, refenbling a ribbon or harnefs laid on by art; the ftripe on each fide is a fmall fection of a large circle, the points ftanding downwards; that crofs the fhoulders is two portions of circles pointing forwards and meeting on the middle of the back; that acrofs the rump is in a regularly waved form, and has two obliquely diverging proceffes, apparentiy intended to run down the hind legs. The fize is unknown, as the defcription was taken from a fquared fkin received by Dr Pallas from the Kurile iflands.

## 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. 38 r. Arct. zool. n. 75 .

Inhabits the White Sea, the coaft of Iceland, and the Frozen Ocean from Spitfbergen to Tfchutkoinofs, or the north-eaft extremity of Afia. - The head is long, with a thick upper lip, having long whifkers, fo that the animal feems bearded; the fur is foft, upright, interwoven, and like that of a hare. This fecies has nails both on the fore and hind feet; is fix feet and a half long, and five feet two inches round.

## 17. Speckled Seal.-Pboco punctata.

Is elegantly fpeckled all over the body, head, and limbs. Penn. hift. of quad. p. 523.
Inhabits the feas about Kamtfchatka and the Kurile inlands.

## 18. Spotted Seal.-Phoca maculata.

The body is fpotted with brown. Penn. hift. of quad. p. 523 .
Inhabits the coafts about the Kurile iflands.-This fpecies is very fcarce.
19. Black Seal.—Pboca nigra.

Has a peculiar conformation of the hind legs. Penn. hift of quad. p. $5^{23}$.
Inhabits the coaft about the Kurile iflands. -This and the two laft fpecies are mentioned by Mr Pennant as being obfcurely defcribed in the manufripts of Steller. What the peculiarity in the conformation of the hind legs, in the Black Seal, confifts of, is not faid.

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\text { XIV. D O G.-I } 3 . C A N I S
$$

Has fix cutting teeth in each jaw; the outermoft of thofe above are longer, and at fome diftance from the reft; the intermediate ones are lobed; the outer ones in the lower jaw are likewife lobed: Has one curved tufk on each fide in both jaws; fix grinders in the upper, and feven in the lower jaw on each fide, 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, lave 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.-r. Canis familiaris. I.

The tail bends upwards, and towards the left fide. Faun. Suec. 5. Amoen. acad. iv. 43.t. i. f. I.
Canis. Gefner, quad. 9r. Aldr. dig. 482. Jonft. quad. 122. Raj. quad. i 76.-Faithful Dog. Penn. hift. of quad. n. 136 . Sm. Buff. iv. I.

Inhabits chiefly in fociety with man, though often found in a wild ftate; it is uncertain whether the fpecies be native in the Eaft Indies. - This fpecies is univerfally attached to mankind. It feeds on flefh, dead bodies, and farinaceous vegetables, refufing greens, and even digefts bones: When fick, it eats fome kind of grafs which ferves as an emetic; drinks by lapping with the tongue; dungs on a ftone, and urines, fideways, holding up the leg, the female fquating; fmells to the anus of other dogs; is very delicate in the fenfe of fmelling; runs obliquely, refting on the toes in walling; fcarcely fiweats when warm, but lolls out the tongue, and foams at the mouth; when about to lie down, often goes round the place; and when afleep has a very quick fenfe of hearing, and frequently feems to dream: The female, when in heat, receives the embraces of various males, who flock about her, and are very quarrelfome among themfelves, while fhe is equally ill humoured, biting and fnarling at all around her; fhe goes fixty-three days with young, and litters from four to eight puppies; of which the males generally refemble the father, and the females the mother.

> This

* In a domeftic flate, many varieties of the Dog have five toes on the hind feet, the fifth being much fmaller than the reft, very leofe, and placed far up the infide of the leg; this is ufually called the Dew-claw.-T.

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This is the mof faithful of ail animals, and perhaps the only one which is really attached to man, being hardly ever found wild, except in places where they have lof their mafters, and had no opportunity of finding others: It fawns at the approach of its mafter, and will not allow any one to frike him; runs before on a journey, and, on coming to a divifion of the road, ftops, and looks back, as if afking which to choofe; is very docile, and may be taught to feek for any thing that is loft; is very watchful by night, and gives notice of the approach of frangers, 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 fportfinan, by means of its acute fenfe of fmelling, creeping with great caution to fpring 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 envioufly 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 banifhed from their houfes, as unclean, by the Mahometans, who notwithftanding endow hofpitals for their maintenance; is the victim of anatomifts, for demonftrating the circulation of the blood, the lacteal vefiels, and for experiments on transfufion, cutting of nerves, and other cruel purpofes; but has been made an ufeful martyr by fome, for difcovering the effects of remedies againft poifon.

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 pofterior one has two lobes, and the anterior three; the noftrils are in form of a femilunar furrow turned ontwards at the lower end; the face ufually has feven hairy warts; and the fur has eight ridges or whorles, on the neck, the breaft, the fore legs, the belly, the eyes, the loins, the ears, and near the arms: The female has ten paps, of which four are on the breaft: The feet have fimall membranes connecting the roots of the toes with each other, or are called fib-palmated.

This animal is fubjeit to more varieties than any other: Each of thefe will reproduce, and, mixing with others, produce varieties almoft without end; yet certain kinds are more numerous and more permanent than others, perhaps from their ufefulnefs, having more attention paid to their breed. It is perhaps impoflible to enumerate or defcribe all the varieties, but the following catalogue includes the moft remarkable and beft known. Various conjectures are formed concerning the original or parent fock; fome deriving all dogs from the Sheep-log, and fuppofing that, by the influence of climate, and the croffing of breeds with the Shakal, Wolf, Fox, and Hyaena, all the forms and fizes have been produced. See Smellie's tranflation of Buffon, iv. P. I. and plates from xxiv. to xliv. inclufive.

Has erect ears, and the tail is woolly underneath.
Canis rïrougra, five domenicus. Raj. guad. ェ77. n. 8. Sm. Buff. pl. xxvii.
B. Pomeranian Dog.-C. pomeranus.

Has long hairs on the head, ereit ears, and the tail is much curred upwards on the rump.
Chien-loup, Wolf-Dog, or Pomeranian Dog. Sm. Buff. iv. pl. xxriii.
r. 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.

Has a fmall rounded head, with a fhort fnout, and the tail is turned up on the back.
Canis parvus melitaeus, or Small Maltefe Dog, with fhorter hair. Aldr. dig. 54I.-Gredin, or King Charles's Dog. Sm. Buff. iv. pl. xxxriii. fig. 1.-Pyrame, of a black colour, with flame coloured fpots. Sm. Buff. iv. pl. xxxriii. fig. 2.-King Charles's Spaniel. Penı. Liif. of quaad. n. r ${ }_{3} 6$. iii. $\alpha$.-Pyrame. Penn. hift. of quad. n. 136 . iii. $\beta$.

Dr Gmelin has evidently confounded two diftinft varieties of the fruall cocking Spaniel in this place: rft, The King Charles Spaniel is entirely black, and las a black palate: 2d, The Pyrane is likewife black, but is marked on the legs, and above each eye, with red or flame colour. -T.

## 2. Spaniel-Canis extrarius.

Has long pendulous woolly ears.
Canis hifpanicus, or Spanifh Dog, with hanging ears. Äldr. dig. 561. 562. - Epagneul, or Spaniel. Snı. Buff. iv. pl. xxxvii. Gig. I.

## 2. Shock Dog.-Canis melitaeus.

Is about the fize of a fquirrel, having very long foft filky hair all over the body.
Canis melitzeus pilofus, or Hairy Maltefe Dog. Aldr. dig. 542. Raj. quad. 177. n. 9.-Bichon, or Shock Dog. Sm. Buff. iv. pl. xxxix. fig. I.

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.

## 入. Little Danifh Dog.-Canis variegatus.

Has fmall, half-pendulous ears, a fmall pointed nofe, and thin legs.
Petit danois, or Small Danifh Dog. Sm. Buff. ix. pl. xl. fig. r. )

$$
\mu . \text { Baftard Pug Dog.-C. bybridus. }
$$

Has fmall, half pendulous ears, and a thick flatiif nofe.
Roquet, or Baftard Pug Dog. Sm. Buff. iv. pl. xl. fig. 2.
Dr Gmelin thinks that this variety is perhaps produced by a crofs between the Little Danifh Dog, var. $\lambda$. and the Pug Dog, var. v.?

The nofe is crooked upwards, the ears are pendulous, and the body fquare built.
Doguin, or Pug Dog. Sm. Buff. iv. pl. xliii.-Cane muffolo. Alep. quad. iii. t. 103.-Pug Dog. Penn. hift. of quad. n. ェ36. v. $\beta$.

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 Baftard Pug Dog.
b. The Alicant Dog, of Buffon, produced between the Pug Dog and Spaniel.

Is as large as a wolf, having the fides of the lips very pendulous, and the body very ftrong and robuft.
Canis fagax fanguinarius, or Sagacious fanguinary Dog. Gefner, quad. 25 1.-Dogue, or Bull Dog. Sm, Buff, iv. pl, xlii. Penn. hift. of quad. n. i36. v. $\alpha$.-Baerenbeiffer. Ridinger, t . 3 .

The nofe of this variety is fhort, 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 almoft to England for baiting bulls, which practice, and confequently the kind of Dog, . is now much lefs frequent than formerly. There are feveral varietics of this in fize and colour.

Of very large fize, having a very robuft body, and the lips are pendulous at the fides, or chops.

Canis bellieofus anglicus. Aldr. dig. 559.-Canis maftivus. Raj. quad. 176. n. r.-Maftiff. Penn. hift. of quad. n. 136. iv. ס. Sm. Buff. iv. pl. xliv.-Englifche Docke. Ridinger, t. 1. 2.

Is very thick and ftrongly made, having a large head, and great lips, which hang down on each each fide. This Dog is peculiar to England, and grows to a great fize, being ufed principally as a watch Dog, which duty he fulfils with great fidelity, and even judgment : Some will permit a ftranger 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, fo 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, firft by gentle growling, or, if that is ineffectual, by harfher means, that he muft neither do mifchief nor go away; and never ufes violence unlefs refifted; will even, in this cafe, feize the perfon, throw him down, and hold him there for hours, or until relieved, without biting.
7. German Hound.-Ganis Sagax.

Has pendulous ears, and a fpurious toe, ufually called a dewoclaw, on each hind foot. Teutfcher Jagdhund. Ridinger, T. v. two figs. at the right hand.
f. Hound.-Canis gallicus.

Is of a whitifh 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.- Franzofifcher, and Englifcher Parforcehund. Ridinger, T. v. two figs. at the left, and T. vi.

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.

Leit-hund. Ridinger, T.iv.-I am uncertain what particular variety of Hound is here meant, as no defcription is given by Dr Gmelin.-T.
v. Pointer.-Canis avicularis.

The tail is fhort, and has the appearance of having been cut.
Canis fagax panterinus, or Sagacious Dog, fpotted like a panther, for catching quails. Ald. dig. 535.-Pointing Dog, or Field Spaniel ; Canis aviarius, feu hifpanicus campeftr.s. Raj. quad. i77. n. 5.-Huner-hund. Ridinger, T. xiv.

## ¢. Barbet.-Canis aquatilis.

The tail is truncated, or feems cut off in the middle, with long coarfe hair. Ridinger, t. 42 .

This feems the fame with the Canis aquaticus major, Great Water-Dog, or Grand Barbet of Buffor, already mentioned at $\varepsilon$.-T.
※. Grey-hound.-Ganis curforius.
Has a long narrow head, with a ftrong lengthened fnout, and finall half pendulous ears; the legs are long, and ftrongly made; and the body is long and thin.
Curs-hund. Ridinger, T. I $_{3}$.

## *. Irifh Grey-hound.-Ganis curforius bibernicus.

Is nearly as large as a mafliff, having an arched body, and narrow projecting fnout.
Schreber, iii. 327. tab. lxxxvii. Raj. quad. r76. n. 3. Sm. Buff. iv. pl. xxiv. Penn. hift. of quad. n. 136. iv. a.

Is of the fize of a maftiff, with an arched body, and narrow fnout; and having the fur fomewhat curled.
Ridinger, t. 9. Ald. dig. 550 .?
ax. Common Grey-hound.-Canis Grajus.

About the fize of a wolf; having a curved or arched body, and narrow fnout.
Scotch hunting Dog, Canis fcoticus venaticus. Gefn. quad. 249. Aldr. dig. 545.-Grey, Greek, or Scotch hunting Dog, canis venaticus grajus, f. graecus, nonnullis fcoticus. Raj. quad. $\mathbf{1}_{7}$ 6. n. 2 . -Levrier, or Crey-hound. Sm. Buff. iv. pl. xxvi. Penn. hiff. of quad. n. I36. iv. R.—Wuadfiel. Ridinger, t. 7 .

Same fize, body and fnout, with the laft, but having the hair fomewhat longer, and ${ }^{\text {P }}$ curled.
Aldr. dig. 549.-Zotiger Wind-hund. Ridinger, T. i. f. I.

Of a fmall fize, but the fane form of body and fnout with the laft.
Penn. hift. of quad. n. 13 6. iv. $\beta$. r.-Kleines Windfpiel. Ridinger, T. 15 .

Has no hair on the body.
Aldr. diget. 562.-Small Indian Dog, with a naked fkin. Brown. Jamaic. 486. ?-Chien-turc, or Turkifh Dog. Sm. Buff. iv. pl. xli. f. I.-Naked Dog. Penn. hif. of quad. r. I36. v. ס.

ع.. Lurcher.-Canis laniarius.
The body is narrow, and covered with flort thick-fet hair ; the legs are ftrong, and the tail is thick and fraight.

ऍ. Rough Lurcher.-Canis laniarius aprinus.
In body, legs, and tail, refembles the laft, but is covered with long harfh hair. Saufinder. Ridinger, T. ir.

The head and fnout are ftrongly made; the hind part of the body is lank; the legs are long; and the hair is long and harfh.
Sauruden. Ridinger, T. 12.

## 99. Turnfpit.-Canis Vertegus.

Has fhort legs; and a long body, which is mofly fpotted.
Penn. hift. of quad. n. ¥ 36 . ii. $\gamma$-Dachfschlieffer, or Dachfwurger. Ridinger, T. 16 .
a. With ftraight iegs. Sm. Buff. iv. pl. xxxiv. fig. I.
b. With crooked legs. Sm. Buff. iv. pl. xxxiv, fig. 2.
c. With long fhaggy hair,

About the fize of a fquirrel: having a fmall head, pendulous ears, a curved body, and fhort tail. Sm. Buff. viii. 261.

Of this animal there are two kinds mentioned by authors.
a. Fit Alco.-Canis americnmus obefus.

Is prodigioufly fat; the head is very fmali, and the ears are pendulous; the fore part of the head is white, and the ears are yellowifh; the neck is fhort ; the back is rrched, and covered with yellow hair ; the tail is white, fhort, and pendulous; the velly is large, and footted with black; the legs and feet are white: The female has fix confpicuous paps.
Micluacanens. Fernand. anim. nov. hifp. 7.-Ytzcuinte-porzotli, Canis americanus, or American Dog. Hernand. hift. Mexic. 466.
b. Techichi.-Canis americanus plancus.

Is like the fmall dogs of Europe, but has a wild and melancholly air.
Fernand. an. nopv. hifp. ıo.

## 2. New-Holland Dog.-Canis antarticus.

The tail is bufny, and hangs downwards; the ears are fhort 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 half in length: His head refembles that of a fox, having a pointed muzzle, garnifhed with whifkers, and fhort erect ears; the whole body and tail is of a light brown colour, growing paler towards the belly, on the fides 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 wiite : On the whole, it is a very elegant animal, but fierce and cruel; from which, its figure, and the total want of the common voice of the Dog, and from general refemblance in other refpects, it feems 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. fueco 6 . Schreber, iii. 346 . tab. 1xxxviii.
Yellowinh brown Dog, Canis grifco-flavefcens. Briff. quad. 1 $70 .-$ Lupus. Gefn. quad. 634. Aldr. dig. 144. Jonft. quad. 89. Raj. quad. 173.-Loup, or Wolf. Sm. Buf: iv. 196. pl. lxiv.-Wolf. Penn. hift. of quall, n. ז37. Brit. zool. i. 6t. t. \&. Arct. zool. n. 9. Ridinger, t. 2 I.-The Anatorv, E. N. C. d. 2. a. 9. obf. 7r, and Cent. 10. app. 450.



Inhabits Europe, Afia, Africa, and America, and as high as the Arctic Circle. -Has long been extirpated from the Britifn ifles: The laft mention of Wolves in England is in 128 I , when they were numerous in fome of the counties; Sir Ewen Cameron of Locheil killed the laft Scotch Wrolf, in Lochaber, in 1680; and the laft in Ireland was killed in 1710 . - They are chiefly found in forefts, even in the colder regions of the north; they hunt in packs, and deftroy cattle, fheep, horfes, fwine, and even dogs: They are very fufpicious animals, and are fearcely to be heard in the woods; and fo fearful of finares, thiat they even awoid 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 found of a trumpet: They have very nice fenfe of hearing and of fmell : They copulate in winter; the female goes a hundred days with young, and brings forth from three to nine whelps; thefe come to their full growth in the third year, and live for fifteen or twenty years. When exceffively pufhed by cold and hunger, they attack mankind, and will even prey on their own fpecies; though they can fupport famine for a long time. They are deftroyed by means of the mofs 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 bufhy, hangs down, and is black at the tip; the legs are long, and the teeth large ; the hair, in general, is longifh, though not fhaggy; the head and neck are afh coloured, and the body is of a pale brown, tinged with yellow.

Befides the above defcribed, which may be termed the Common Wolf, there are feveral varieties of this fpecies, differing chiefly in colour, perhaps occafioned by climate: The following are the moft remarkable, and beft defcribed; for the Wolves of fome authors are evidently Hyaenas.

## B. Yellow Woif.-C. Lupus flavus.

Of a yellow colour. Sm. Buff. iv. p. 207.
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 deftructive, and never troubles the flocks, or the habitations of man.

Of a white colour. Muller. Ruff. Sam. iii. 527.
This variety is found near the Jenifea, in the eaftern parts of Afiatic Rufia, 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 diftant ; but in every other circumftance, and in difpofitions, it refembles the common European Wolf.

Of a grey colour ftriped with black. Penn, hift. of quad. p. 232.

## Inhabits the Cape of Good Hope.

The tail is fmooth, and bent downwards; the body is afh coloured, variegated with dufky flripes and tawny fpots.
Canis cincreus, or Afl-coloured Dog, fpotted with tawny. Briff. quad. 237.-Quauhpecoti, or American Mountain-cat. Seba, muf. i. 68. t. 42. f. 2.-Xoloitcuintli, or Mexican Wolf. Hernand. Mex. 479.- Cuaslachtli, Lupus indicus, or Indian Wolf. Fernand. nov. Hifp. 7.-Mexican Wolf. Sm. Buff. viii. $25^{\circ}$. Penn. hift. of quad. n. $13^{8 .}$

Inhabits the warm parts of Mexico and New Spain. -The body is anh coloured, with dark brown fripes, and having tawny yellow fpots on the fore-lhead, neck, breaft, belly, and tail; the head is very large, with great jaws, and frong teeth; above the mouth there are fome brifles, as large, but not fo hard, as the fpines 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 defrribed.

## ß. White Mexican Woif.-C. Lupus mexicanus albus.

Of a uniform white colour. Fernand. hit. anim. nov. Hif. 7 .
According to Fernandez, who defrribes the animals of New Spain, the Mexican Wolf is fome-- times found of a uniform white colour, but agreeing in every other particular with the Striped Mexican Wolf juft defrriber.

## 5. Surinam Wolf.-4. C. Lupus Thous. 9.

The tail is fmooth, and bent downwards; the bedy is grey on the upper, and white on the under parts.
Surinam Wolf. Pern. hifr. 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 eacl cheek, and under the throat; and the torgue is fringcd at the fides. It is about the fize of a large Cat.
6. Striped Hyaena.-5. Canis Hyacna. 3 .

Has a fhort Araight tail; ereet hair, like a mane, on the neck; naked ears; and only four toes on all the feet. Schreber, iii. 37 r. tab. xcvi. Nailler on var. fubj. tab. xix. A.
Taxis forcinus, f.Hyaena antiquorm. Kaempfer, amoen. exot. 411. t. 4 17. f. 4.-- Lupus marines. Delion. aquat. 33. t. 34. Jouft, quad. t. 57 . Gefn. 359.-Hyaena. Briff: quad. 16 g. Sm. Bufi. r. 22б. pl. cxxp. - Striped Fyaena. Pem. hift. of qrad. n. I49.-Indianifier Woif. Riuinger, allerl. Thicre. to 37 .

Inhabits the enRem and fouthcrn parts of the Old World, Mount Caucafus, and the Mitaic Chain,
 ancients, and is likewife named riavos by Arifotle.- It burrows, in the ground, and dweils in caves, boing
being capable of living for a long time without food: It frequents burcing 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 moft unconquerable obftinacy, not quitting its hold but with its life; and from this circumfance it becomes an ealy prey to the hunters. It is about the fize of a large Dog, and refembles a wild Boar in its countenance. The hair on the ridge of the back is erect, near a fpan long, and black at the points; the eyes are placed near the fnout; the ears are naked; the tail is generally variegated with black rings, and has the hair long and furrounding it in a radiated bufh at the extremity; the body is of an ath colour, marked with tranfverfe ftreaks, from the back downwards to the belly.-This animal is apparently allied to the Bear and Badger; having, like the latter, a tranfverfe orifice, or fack, which fecretes a foetid matter, fituated between the tail and the anus.

Mr Pennant, with confiderable propriety, feparates this animal, and the two ncxt, from the genus of Dog, making them two fpecies of a diftinct genus, under the name of $H_{\text {yaenta }}$. The diri: gi ifhing marks are, the fhort tail, the tranfverfe orifice under the tail, the having fix fore-tecth in the lower jaw, and only four toes on each foot.

## 7. Abyfinian Hyaena. - C. Hyaena aethiopicus.

The tail is bufhy; and the body is marked with curved fripes. Druce, Abyfi. v. 10\%. and fig.
Inhabits Abyfinia, and the north-eaft of Africa.- Whether this animal, as defcribed and figurcd by Mr Bruce, be a diltinct fpecies, I do not pretend to determine. In magnitudc, ferocity, and manners, it refembles the following fpecies; but its body, which is of a yellowifh brown colour, is marked with curved ftripes of black, in form of a reverfed Italian $\int$; the muzzle is black; the legs are ftriped acrofs with black; and the bufly tail is of a reddifh brown colour.-T.

## 8. Spotted Hyaena.-6. C. Hyaena Crocuta. 10.

Has a ftraight tail; four toes on all the feet; and the body is fpotted with black. Erxleben, hift. mam. 578.
Hyaena, or Crocuta, congeneric with the former animal. Ludolf. Fthiop. B. i. c. ro. n. 50 .Quumbengo. Barbot, Guin. 486.-Jachhals, or Bofhund. Boffun. Guin. 291.-Spotted Hyaena. Penn. hift. of quad. n. 150 . pl. xxix. fig. 2.

Inhabits Guinea, Ethiopia, Abyffinia, the Cape of Gcod 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 reddifh 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.

Has a ftraight tail, and the body is of a pale tawny yellow colour. Schreber, iii. $3 \sigma_{5}$. 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. 8o. t. i3. Guldenfedt, nov. com. Petrop. xx. 449. t. x. Penn. hift. of quad. n. i45. Sm. Buf., 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 Afia, and in mort parts of Africa. - This animal is the $\Theta_{\omega}$, of Arifotle
 in the forefts 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 $f$ fiftnefs when detected: Will not attack adults of the human fpecies, but fometimes devours children: Preys on fmall 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 carcafles: 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 noife; for, when one begins to howl, every one within hearing joins in the difinal cry, which refembles the howling of Dogs intermixed with a kind of barking: By this barking and noife the other beafts of the foreft are fet in motion, and join in the chafe of Stags or other anjmals; 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 thefe are forced to wait around till the tyrant of the foreft, having fatisfied his appetite, leaves the remains of his feaft to them, who, from this circumftance, have been named the Lion's provider. The head is fomewhat fhorter than that of a Fox, with a blunter nofe; black lips; fomewhat loofe, 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 compreffed, and the legs are longer; the tail is thickeft of hair in the middle, and tapers both ways; each foot has four toes, which are covered with hair, cven 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 yellowifh white; the tail is of the fame colour with the back, and is tipt with black; the legs are of an ummixed tawny brown, having fometimes a black fpot on the knees: It is twenty-nine inches long from the nofe to the origin of the tail; and eighteen or nineteen inches high at the fhoulders. The Jackal has much the nature of Dogs, with a ftrong mufky fimell; when taken young, it acquires the fame affectionate manners; and is by fome late authors fuppofed to be the original fock of all our various kinds of Dogs, which have been altered by climate, and intermixture with fome other fpecies. See Penn. hift. of Quad. 244.

Has a fraight tail, and a rufty coloured body, with a black band on the back. Erxl. main. 574. Schreber, iii. 370. tab. xcv.
Jackhais. Kolben, Cape. 150.-Capefch, Tenlie, or Kenlie, of the Hottentots. Pean. hift. of anad. n. I $4^{\text {б. }}$

Is common at the Cape of Good Hope.-This fpecies has very much the appearance of a Fox, and is about twenty-feren inches long from nofe to rump; the tail being a foot long: The ears are crect, of a yellowifh brown colour, mixed with a few black hairs; the head is yellowifh brown, mixed with black and white, and growing darker towards the back part; the fides are pale brown, varied with dulky hairs; the upper part of the body, and back of the legs, are yellowifh brown; the throat, breaft, and belly, are white; the tail is buthy, and yellowith brown, with a longitudinal black ftripe on its upper part, having two black rings towards the end, and is tipt with white; on the neck, fhoulders, and back, is a large black patch, broad at the flhoulders, and growing narrower towards the tail; when the hairs are fmooth, this patclı feems marked with white bars on the neck, and with concentric curved lines on the thouldcrs; but, when the hairs are ruffed, thefe regular marks change to a general hoarinefs.

## 11. Barbary Jackal.-Canis Adive.

Has a ftrait bufhy tail, furrounded 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 obferves, 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 nofe is long and flender; the ears are fharp and erect; and the tail is long and buthy, being furrounded with three broad black rings. This animal is very much of the fame fize and form with the Common Fox, but has thorter legs.

Has a ftraight tail ; and the body is entirely black.
Erxleb. mam. 560. Schreber, iii. 353. tab. lxxxix. Miller on var. fubj. tab. xix. B.-Vulpecula nigra. Scheff. Lappon. 340.--Schwarze Fuchfe. Steller, Kamtfchat. 124.-Black Fox. Penn. hift. of quad. n. 139. $\gamma$. Arct. zool. n. ii. u.-Lupo nero. Aleff. quad. i. t. 24.
Inhabits the colder regions of Europe, Afia, and America. -This is the moit cumning 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 greyifh, or by having the tips of the hairs of a filvery whitenefs. The fur is reckoned very valuable; being preferred in Ruffia to the fineft fables; one fkin fometimes felling for four hundred roubles: Thofe of America are inferior in beauty. - The above defcription refers diftinctly to a variety of the Fox ; and yet Dr Gmelin quotes, as a fynonime, the Black Wolf of Buffon, with the plate and defcription already referred to in fp. 3. $\delta$. of this genus.-T.

## 13. Fox.-:0. C. Vulpes. 4.

Has a fraight tail with a white tip. Schreber, iii. 354 . tab. xc.
Vulpes. Gefn. quad. 966. Aldr. dig. 195. Jonit. quad. 82. Raj. quad. i77-Renard, or Fox. Sm. Buff. iv. 214. pl. lxvi.—Fuchs. Riding. jagd. thiere. t. r4.-Fox. Penn. hift. of quad. n. i 39 . Brit. zool. i. 58. Arct. zool. n. ir.

Inhabits Europe, Afia, Africa, and America, as far as Chili.-Is the Arom德 of Ariftotle and Aelian, and the Kegow of Oppian. - This animal is very cunning, and dwells in holes of its own dizging; it preys on lambs, geefe, ducks, poultry, and finall birds, and even eats the dung of other animals; becomes fat in Trance by feeding on grapes in autumn, and at this time his flefh 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 fimell of gun-powder, and may be chafed away by means of fmoke: 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 ftrong rank odour from the bafe of the tail.

## 14. Brant Fox-11. C. Vulpes Alopex. 5.

The tail is fraight, and has a black tip. Schreber, iii. 358. tab. xci.
Fox, having a thicker fur than the common kind, and of a blackifh colour. Gefn. quad. $96 \%$.
Inhabits Europe, Afia, and Chili.-This animal is lefs frequent, fmaller, and of a darker colour, than the Common Fox, to which it is very fimilar in all other refpects. Since it is found both in Chili and the Old Continent, it ought alfo 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 leaft 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 fubjoined as varieties.-T.

The tail is black above, red beneath, and cinereous on the fides. Penn. hift. of quad. n. 139. ס. Arct. zool. n. i $1 . \%$

Inhabits Penfylvania.-This animal is hardly half the fize of the Common Fox; the nofe is black and very fharp; the fore-head, back, floulders, fides, and thighs, are aht coloured, mixed with red and black, and having a hoary look; the belly is yellowifh.

## B. Coal Fox.-C. Vulpes Alopex europatus.

Has remarkably black feet.
Charbonnier, or Coal Fox. Sm. Buff. iv. 22 I
Inhabits Burgundy, where it gets the name of Renard Charbonnier, or Collier Fox, from the blacknefs of his feet and legs, as if they had become fo artificially by working among charcoal duft. 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.

Ilas a ftraight tawny tail, which is black at the root and tip. Syft. nat. ed. xii. app. 3. p. 23. Schreber, iii. 359. tab. xci. B.

Korfaki. Rytfclkkow, Orenb. i. 232. Pallas, neue nord. Beytr. i. 29.-Corfak Fox. Penn. hift. of quarl. n. 139. そ. Arct. zool. n. i 1. 8. Sm. Buff. vii. pl. ccxaxix.

Inhabits chiefly in the great defert between the Ural and the Irtifi, in Afiatic Rufia.-This fpecies, or variety, is lefs than the Common Fox, but, in other refpects, is very frnilar; it is greedy of birds, has a bad fmell, and howls and barks exactly as they do; the ears are upright, the hair is fofe and downy; the tail is buhy, and as long as the body; the fur is of a pale tawny colour in fummer, growing grey in winter, with a white throat; the tail is cinereous, except the bafe and tip. Forty or fifty thoufand of the fkins of this variety are amually fold by the Kirghis Fhaifiacks to the Rufians; being caught by means of Falcons and Grey-hounds.

## 16. Karagan.-13. C. Vulpes Karagan. I 4.

The tail is flaight; the body is of a grey colour, and the ears are blach.
Karagan, Steppen fuchfe, or Defert Fox. Pallas, it. i. 199. 234.
Inhabits the deferts belonging to the Kalmucks and Kirgifes.

The tail is ftraight ; the body is of a filver grey colour, with the fides of the reck of a yellowifh brown. Erxl. mam. 567. Schreber, iii. 360. tab. zicii. 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 ftraight tail; and the body is of a whitifh afh colour. Erxl. mam. ${ }^{667}$. Schreber, iii. 361. tab. xcii. B. Brifi. quad. 174. Klein, quad. 7 I .

Grey Fox. Caterby, Carolina ii. 78. tab. Pem. hift. of quad. n. 142. Arct. zool. n. 12.
Inhabits Carolina, and the warmer parts of North America.-Lives in the hollow trinks of decayed trees, and is eafily tamed.

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\text { 19. Arctic Fox-16. C. Vutpes Lagopus. } 6 .
$$

Ilas a feaigit tail; and all the feet are remarkably hairy. Erxleb. mam. 563 .
Canis f. vulpes, with a fraight tail, having the tip of the fame colour with the reft. Syft. nat. al. xii. 59. Schreber, iii. 362. tab. xciii. Brifi, quad. I74.

Inhabits the countries on the Frozen Sca, and in North America, extending as far as Kamtfchatka, and the iflands between that and America; is found in Greenland, Iceland, Spitzbergen, Nova Zembla, and Lapland, and even fo far fouth as Chili.-This animal keeps motly on the naked mountains, and is feldom found in forefts, living in burrows under ground, or in clefts of rocks; it feeds on mice, and the young of geefe, ducks, Scc.; and, when preffed by famine, eats berrics or fhell fifh : It burks like the Fox, but has not the fame fetid fmell: The female goes nine weeks with young The fur is reckoned valuable. Of this fpecies there are two varieties.

Is of a white colour. Kalm. Bahus. 236.
Ifatis, or Arctic Dog. Sm. Buff. vii. 268. J. G. Gmelin. nov. com. Petrop. v. ${ }_{7} 60$, 358. Pene. hift. of quad. n. i40. Arct. zool. n. 10.

## B. Bluifh Arctic Fox.-C. Vulpes Lagopus caerulefcens.

Is of a bluifh colour. Faun. Suec. 14 .
20. Crofs Fox. - C. Vulpes crucigera.

Has a black crols on the fhoulders.
Vulpes crucigera. Briff. quad. 24I. n. 6.-Kors-raef. Faun. fuec. 4.-Crofs Fox. Penn. hift. of quad. n. i 39. . . Arct. zool. n. i i. $\beta$.
Inhabits the coldeft parts of Europe, Afia, and North America.-Has a black mark along the back to the tail, and a tranfverfe black band crofs the fhoulders; the fur is thicker and fofter 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.

## 21. Chilefe Fox.-C. Vulpes chilenfis.

Has a flraight and very long tail, which is fmooth, and the tip is of the fame colour with the reft.
Canis culpaeus. Molin. hift. nat. Chil. i. iv. 259 -
Inhabits Chili.

## 22. Antartic Fox.-C. Vulpes auftralis.

The tail hangs down, is bufhy, and is tipt with white ; the ears are fhort, erect, and pointed. Penn. hift. of quad. n. I4I.
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 fpecies or variety is about a third larger than the Common Fox, and has much the habits of the Wolf, in the ears, tail, and frength of limbs. It lives near the fhores in Falkland's iflands, in kennels like Foxes, and has regular paths from one part of the fhore to another for furprifing the fea-fowl, on which it chiefiy feeds. It is very tame, barks like a Dog, and fmelis very fetid. The head and body are covered with woolly hair of a cinereous brown colour ; the legs are dafhed with ruft colour ; the tail is dufky, and tipt with white; the in-1 fides of the ears are lined with white hair.

Is of a pale yellowifh brown colour; having a long, ftraight, fmooth tail, and very long, erect, rofe coloured ears.

Cerdo. Skioldebrand, act. Suec. an. 1777, trim. 3. art. 7. t. 6.-Zerda. Penn. hifts of quad. n. 148. t. xxviii.-Anonynous animal. Sm. Buff. viii. 283. pl. cexciv.-Fennec. Bruce's Abyfinin, 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 fpecies of the genus: It is very fwift of foot, climbs trees, and lives on locufts and other infects; it barks, or rather yelps, like a young Dog. Dr Gmelin is uncertain whether this animal fhould belong to this genus; and, from Mr Bruce's account, it certainly fhould not, fince it has retractile claws; but, as that adventurous traveller has not given a defcription by which the naturalift can refer it to any particular part of fyftem, with a tollerable degree of certainty, it may remain here until a fpecimen 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 refembles that of a Fox; the toes have fhort 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 infide in the middle, but the reft of the infidc is garnifhed with long white hairs: the outfide is covered with brown hair, mingled with yellow: It lives on the paln trees, of which it eats the fruit.

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\mathrm{XV} . \text { C A T.-14. FELIS }
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Has fix cutting teeth, all equal, and two tufks in each jaw, and three tufks on each fide in both jaws: The tongue is befet with rough papillae, which point backwards: The feet are provided with fharp hooked claws, which are lodged in a fheath, and may be extended or drawn in at pleafure: The head is moftly round, and the vifage fhort.

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, ufually attendant on fuch falls, is prevented. The toes are all provided with very fharp hooked claws, which are retractile, and are always kept inclofed in their fheaths to preferve them from injury, except when neceffary to feize on prey, or for climbing: Almoft all the fpecies of this genus feize their prey by furprife, lying in wait till it comes within reach, and then fuddenly fpringing forewards at one leap; and, while the prey is in fight, they have a cuftom of waving the tail from fide to fide: They moftly fuck the blood of fuch animals as they catch before devouring them : They do not ufe vegetable food except from neceffity ${ }^{*}$. The females bring a confiderable number at a birth, and have all eight paps, whercof four are fituated on the breaft, and four on the belly.

This genus is very conveniently arranged, by Mr Pennant, in two fubdivifions, having long and flort tails, which are adopted in this edition.--T.

Vol. I.

* Glans penis muricatus retrorfum.-Gm.


## -With long tails, and plain ears.

## 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 bufhy at the end, and the breafe and neek eovered with a long haggy mane. Syft. nat. ed. vi. p. 4. n. 1. Brif. quad. 134. Gefner, 572. Aldrov. 2. Jonft. quad. 72. Dodart, i. t. 1. and vii. t. 7. Raj. quad. 162.-Lion. Sm. Buff. v. 64. pl. evii. and cviii. Penn. hift. of quad. n. $5^{5}$ I.-Anatomy. E. N. C. d. 1. a. 2. obf. 6. Bartholin. act. 1671. n. I7. Nov. com. Petrop. 1771. tab. xvi.

Inhabits Africa, efpecially its interior parts; and is found, though not in fuch numbers, in the deferts of Perfia, India, and Japan: In ancient times it was likewife to be met with in all the warm regions of Alia, in Paleftine, Armenia, and Thrace. -This animal preys on horfes, 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 thievifh 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 ftinking breath, and weak fenfe of fmelling; when young 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 maie 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 furnifhed with a flowing yellowihh brown mane, the hair of which is about two feet long, the reft of the body is eovered with fmooth fhort hair, and the tail is a little bufhy 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, procceding from the wind-pipe being compofed of entire eartilaginous rings, which overlap eaeh other like tiles. The flefh of Lions is eaten by fome inhabitants of Africa.

## 2. Tiger.-2. Felis Tigris. 2.

The body is marked with long dark coloured ftreaks. Schreber, iii. 381. tab. xcviii.
Felis tigris. Brif. quad. r95. Ludolf. hift. Athiop. 15 1. Gefn. quad. 936. Aldrov. dig. 10 I. 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. r. a. 2. obf. 7. and a. 9. obf. 194. S. G. Gmelin, it. Ruff. iii. 483.

Inhabits the hotter regions of Afra, as far as China and Japan; is likewife found on Mount Ararat, in Chinefe Tartary, about lake Aral, and in the Altaic mountains; but is largeft and fierceft in India, efpecially Bengal, and the Indian iflands.-This animal lives in woods and thickets, moftly by the fides of rivers; is exceedingly cunning, very cruel, immenfely ftrong, and of vaft fu'ftuefs: It is the greateft enemy of man, even laying whole diftricts wafte, efpecially in India. Though amed almoft from the birth, it will evince its naive ferocity, and efcape from its chains as food as an orportunity ofters. The Tiger is almoft is large as the Lion, and, like him, has a foctid breath. The
male deftroys his own progeny when he can get to them. Has a moft acute fenfe of feeing: Lies in wait for his prey, and feizes it by a fudden bound. This is the moft beautiful of all wild beafts.

This animal, though immenfely cruel and ferocious, is yet exceedingly cowardly; and, though he feems to prefer mankind to any other prey, when he can procure fuch by furprife, will liardly attack openly even the fimalleft animal that is capable of making refiftance. Like the Cat, with which his manners agree very much, he lurks among bufhes, crawling flowly on his belly towards fuch prey as appears, until he thinks he has got within reach, then fprings forward from his ambufl with an immenfe bound; but, if he mifles his object, makes off without repeating the attempt: When he fucceeds, though the animal be a large Buffalo, fo vaft is his ftrength, he carries it off with the utmoft eafe into the receffes of the foreft: If undifturbed, he plunges his head into the body of the flaughtered animal, and fucks the blood, before he devours the carcafe, as if delighting in ferocious flaughter. The head and body are fmooth; the general colour is pale yellow, very beautifully marked with long ftripes of black, which point downwards, along the fides, from the back to the belly, and are tranfverfe on the thighs; is often larger than the Lion, fome having been found fifteen feet long, including the tail, which is about two-thirds the length of the body and head.

## 3. Panther.-3. Felis Pardus. 3.

The upper parts of the body are marked with circular fpots, and the lower with Areaks. Schreber, iii. 384 . tab. xcix.

Felis Pardus. Briff. quad. 194.-Panthera, Pardus, Pardalis, Leopardus. Gefin. quad. 824. Raj. quad. 166.-Pardus. Ludolf. Athiop. 5 11.-Panther. Sm. Buff. v. 167. pl. cx. and cxi. Penn. hift. of quad. n. 153.

Inhabits Africa, from the Barbary coaft, as far as the fouthern parts of Guinea, and is likewife faid to be found in Afia.-This animal is of a ftrong make, and is next in fize to the Tiger, meafuring fometimes near feven feet from the tip of the nofe to the origin of the tail, which is about three feet long. The Panther is probably the $\Pi \mu g^{\delta} \partial \Delta \lambda \iota s \mu \Leftrightarrow \zeta^{\circ} \omega v$ of Oppian. Though a very fierce and cruel.animal, it is lefs apt to attack mankind than the Tiger, and confines its depredations chiefly to animals $s_{2}$ unlefs when irritated, or much preffed with hunger. It is faid fometimes to enter houfes in the night • time, and to prey on domeftic Cats. The general manners of this fpecies are very finilar to thofe of the Tiger, already defcribed. It is quite untameabe, and always ratains a fierce malevolent afpect, perpetually growling or murmuring. The general colour of the hair, which is fmooth and fhort, is bright tawny, having the back, fides, and flanks, elegantly marked with black fpots, which are of a circular form, each being compofed of four or five leffer fpots, with a fingle fpot in the center ; the fpots on the face and legs are fingle, and the top of the back has a row of oblong fpots, the longeft of which are next the tail; the cheft and belly are white, the former being marked with tranfverfe dulky ftripes, and the latter, as is the tail, with large irregular black fpots; the end of the nofe is. brown, and the ears are fhort and pointed.

## 4. Ounce.-4. Felis Uncia. 9.

The body is of a whitih colour, marked with irregular black fpots. Erxleben, mam. 508. Schreber, iii. $3^{866}$. t. c.

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\text { The Ounce. Sm. Buff. v. } 167 . \text { pl. cxii. Penn. hift. of quad. n. } 157
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Inhabits the northern parts of Africa, in Periia, Hyrcania, and China, and in Siberia, about.the Aitaic and Bucharian mountains, and to the weft of Lake Baikal.- This animal is probably the Panthera of
 mus, being about three feet and a half long, and the tail above three feet; it is likewife of milder difpofitions, may be tamed, and is even trained to the chafe of Antelopes and Hares, becoming as tractable as a well bred Pointer. The huntinan carries him to the field on the crupper of his faddle, making him defeend after the game and jump up again at command. The ground colour is a whitifh grey on the back and fides, and fill whiter on the beily; the head is marked with fmall round black fiots, having a large one behind each ear; the upper part of the neck has large fingle fpots; thofe on the fides of the back are longitudinally oblong, and compofed each of feveral fimall fpots, almoft touching each other, and leaving a void in the middle; the reft of the fpots on the body are large, irregularly figured, compofed of fmailer fpots, and filled in the middle; on the legs they are fmall, and thinly difperfed; the tail is full of hair, and irregularly marked with large black fpots.

## 5. Leopard.-5. Felis Leopardus. 10.

Of a yellow colour, marked with black fpots, which are almoft 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. r67. pl. cxuii. Penn. hift. of quad. n. 154.

Inhabits the warmer regions of Africa, efpecially on the weft fide, in Senegal and Guinea; is alfo found in Afia, on the mountains of Caucafus, and all the way from Perfia to China, and in Arabia.This fpecies is not much larger than the laft defcribed, being about four feet long, and the tail from two to two and a half feet. The manners and difpofitions of the Leopard refemble thofe of the Ounce, being greatly more mild and gentle than thofe of the Panther. The ground colour of the hair on the back and fides is yellow, beautifully marked with numerous fnall annular, or rofe-like, black fpots, fituated clofe to each other, each being compofed of four or five fingle fmall fpots; the fpots on the face and legs are fingle; the breaft and belly are covered with longer hairs than the reft of the body, which, are of a whitifh colour; the tail is marked with large oblong fpots, and is of an equal thicknefs from the origin to the extremity, The flefh of this fpecies is eaten by the Negroes, and is faid to be as white as veal, and very well tafted.

## 6. Leffer: Leopard.-Felis Leopardalis.

Like the former, but much fmaller, and having a large black fpot on each fide of the upper lip. Penn. hift. of quad. n. 155 .

This fpecies was kept, fome years ago, in the Tower of London, and was faid to have come from the Eaft Indies.-The fize is very finall, not being lalf fo large as the Leopard; the tail is likewife fhorter, in proportion to the fize of the animal, and tapers to a point; the back, fides, and rump, are covered with bright yellow hair, marked with fmall circular compound fpots; the belly is white, and fpotted with black; the face is fpotted, having a white chin; and the breaft is marked with fmall fipots.

Of a yellowifh colour, marked with cornered annular fpots, which are yellow in the middle. Schreber, iii. 388. t. cii.
Felis onca. Brifl. 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. Buif. v. 18 ipl. cxiv.-Braflian Tiger. Penn. hift. of quad. n. 158. pl. xxxi. fig. I.
Inhabits the hotteft parts of America, from, Mexico to Buenos Ayres.-This fpecies grows to about the fize of a Wolf, or large Bog, 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 vaft bounds. It faftens on che fhoulders of horfes, and oiher large animals, and is of fuch amazing ftrength as to carry off animals three times its own fize. It is faid to be fond of human Hefh, and that, when it has once taftel of this, it is rapacious of it for ever after; and is believed to prefer Negroes to Europeans, and thefe to American Indians. It even preys on fihes, and is faid fometimes to attack the Alligator, faftening its claws into the eyes of that reptile, which inftantly plunges into the water, where both ufually perifh. The Jaguar is much afraid of fire, and is rery cowardily, being eafly put to flight, even by fhepherds dogs; it makes a great noife in the night, like the howhing of a ungry dog. The ground colour of the upper part of the body is yellowifh, and marked with eye-like black fpots, compofd of fmaller fpots arranged in a circular figure, 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 fmaller fpots; the tail is only half the length of the body, and is marked with long black fpots. -Dr Gmolin fuppofes 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 fpots, may be confidered as a variety of this fpecies.

## 8. Ocelot.-7. Felis Pardalis. 5.

The upper part of the body is marked with long ftripes, and the fides and lower parts with round fpots. 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 whitifh; all the upper parts being beautifully marked with black fpots and ftripes difpofed horizontaliy, while the legs and belly are only footted; the fides are ftriped with broad tawny and white lines; the ears are Mort, 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.

## 9. Guepard.-8. Felis jubata. 11.

Of a tawny brown colour fpotted with black, having a mane on the neck. Erxleb. mam. $5^{10}$. Schreber, iii. 392. t. cv.
Felis jubata. Briff. quad. 27T. no ro.-Tyger-Wolf. Kolben, Cape.-Guepard. Sm. Buff. vii. 25 1.-Hunting Leopard. Penn. hift. of quad. n. 156. pl. xxx. fig. I.
Inhabits the fouth of Africa, and India.-This fpecies 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 beliy is about the fane length: The fur is of a pale yellow colour, and fpeckled with fimall, 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 boodwinked, till it is let loofe upon the herd, which it attacks at unawares, ftealing along, and concealing itfelf till it gets a proper opportunity, then darts forwards, with aftonifhing velocity, for five or fix vaft leaps; but if this doss not fucceed it becomes breathlefs and gives up the purfuit, returning peaceably to its mafter.

## 10. Jaguarete.-9. Felis difcolor. 12.

The body is moftly 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. hirf. of quad. n. 161. pl. xxx. fig. 2.

Inhabits South America.-This is a fierce, ftrong, and rapacious animal, which, when full grown, is as large as a calf of a year old. The hair is fhort, very fmooth, and of a brownifh black colour; the lips, the feet, throat, breaft, belly, and infides of the legs and thighs, are whitifh. This animat is moflly of a uniform colour, but is fometimes marked with fpots of a full black colour.

## 11. Puma.-io. Felis concolor. 9.

The body is of a reddifh tawny colour, without fpots. Mantif. pl. ii. 522. Schreber, iii. 394. t. civ. A.

Felis fulvo-rufefcens. Briff. quad. 272. n. II.-Puma, or American Lion. Hernand. Mex. 518. -Cuguacuarana. Marcgr. Braf. 235. Raj. quad. 169.-Cuguacuara. Pifo Ind. 103.-Panther. Lawfon, Carol. i17. Catelby, app. xxv.-Brown Tiger. Barrere, Fr. equin. i66.-Couguar. Sm. Buff. v. 197. pl. cxvii. and cxviii.-Puma. Penn. hift. of quad. n. i6o. Arct. zool. n. i4.
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 pafs. 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 whitif ${ }_{\text {n }}$
whitifh; the head is very fmall, with large eyes, and fomewhat pointed ears; the teeth are very large; the claws are white, the outmoft claw on each fore foot being larger than the reft; the body is long, being five feet three inches from the nofe to the tail, which is two fect eight inches long.

## 12. Couguar. - Felis Couguar.

The body is remarkably thin and long.
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 nofe to the tail, is five feet four inches long; the tail two feet fix inches; the fore part of the body is one foot nine inches high : It is of a reddifh tawny colour abore, and whitilh or the lower parts of the body.
13. Margay.-11. Felis tigrina. I3.

The body is tawny on the upper parts, and marked with black flreaks and fpots; the lower parts are whitifh. Erxleb. mam. 5 17. n. ir. Schreber, iii. 396. t. cvi.

Felis grifeo-flavefcens, of a yellowifh grey colour marked with black fpots. Briff. quad. 193.Wild Tiger-Cat. Barrere, Fr. equin. 152.-Maraguao, or Maracaja. Marcgr. Braf. 233.-Tepe Maxtlaton. Fernand. nov. hifp. 9.-Margay. Sm. Buff. vii. 249. pl. ccxxxvii.-Cayenne Tiger-Cat. Penn. hift. of quad. n. $1 \sigma_{3}$.

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 activc, going by leaps or bounds.

## 14. Mexican Tiger-Cat.-Felis mexicana.

Of a blue grey colour, marked with thort black ftreaks. Penn. hift. of quad. n. 167 .
Inhabits New Spain.-This animal is about four feet long, from nofe to tail, and three feet high; the tail is fhorter, in proportion, than any of this divifion of the genus; the eyes are fmall; the hair is very ftrong.

The upper parts of the body are of a pale yellowifh brown colour, having three rows of fhort black fripes aiong the back, and a black perpendicular fripe behind each fhoulder. Penn. hift. of quad. n. 164.

Inhabits Bengal. -This is a very elegant animal, which is rather lefs than the Common domeftic Cat : The head, upper jaw, fides of the neck, the back, and the fides, are of a beautiful pale yellowifh brown colour; the head and face are ftriped downwards with black; three rows of fhort black ftreaks run along the back pointing towards the tail; a black line is paced behind each fhoulder pointing downwards; the chin and throat are white, and furrounded with a black femicircle; the
breaft, belly, and infides of the limbs, are white, and thefe, 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 yoting afterwards with female Cats in England.

## 16. Cape Tiger-Cat.-1 3. Felis capenfis. 14.

The body is of a bright tawny colour, marked on the back with oblong black freaks, and on the fides with numerous fmall round black fots.

Cape Tiger-Cat. Penn. hift. of quad. n. 162. Forfter, Phil. Tranf. vol. lxxi. p. i. n. 1. t. r.-Nfuffi. Labat, Ethiop. i. 177.

Inhabits the woody mountains at the Cape of Good Hope.-The fpecimen feen and defribed by Mr Pennant was near three feet long from the nofe 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 difoofitions, and is eafily tamed; its manners refemble thofe of the Common Cat; and, in its native woods, it preys on hares, jerboas, and antilopes.

The tail is furrounded with black rings; the head is fpotted with black, and has two very diftinct black freaks on each fide. Pallas itin. iii. 692. n. 2.

Inhabits the waftes of Mongul-Tartary, efpecially in the vicinity of the Selenga and Dfchida rivers, and all the middle of northern Afia, from the Ural to the Amur. -This fpecies is about the fize of a Fox, and preys chiefly on the Daurian hare, and other frmall quadrupeds; it loves open, woodlefs, 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 fpeckled on the crown with black ; the cheeks have two duiky lines rumning obliquely downwards from the eyes; the feet are friped obliquely with black lines; the tail is of an equal thicknefs, and is furrounded with ten black rings, the three outermoft of which are almoft contiguous; the limbs are very ftrongly 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 fpotted 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, unlefs when attacked, and cannot be tamed. The eyes are extremely brilliant; the whilkers are long and
ftiff; the tail is very fhort, reaching only to about the middle of the hind legs. The Serval inhabits the mountains of India, remaining almoft always on trees, where he makes his nef, lcaping 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 Gatus. 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 Eaftern Afia, and is domefticated almoft every where. - When tranquil the Cat makes a peculiar noife, 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 hifing noife, fpits, and ftrikes with the fore feet, at which time the breath finells ferongly of mufk: The eyes fline 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, ftrong, and very fharp pointed, but, being retractile, are always kept in their fleaths when the animal walks: The eruetations of this animal are extremely fetid; the urine of the male is corrofive, and has a very difagreeable odour ; and it always buries the excrement. The amours of the Cat are carried on with frange 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 mofly on mice and rats, and, when in the wild ftate, on many kinds of fmall quadrupeds, and on birds; it eats all kinds of flefl and fifh, but rejeets hot things, falted meat, and vegetables, and drinks fparingly. On the approach of ftorny weather, the Cat wathes 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 proverbally 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 ftrong but unaccountable diflike.

There are many varieties found in different parts of the world, which will not admit of any fyftematic defcription; but the following are thofe which are beft marked.

Has a long tail, annulated with brown bars; the body is marked with blackifh fripes, of which three are difpofed longitudinally on the top of the back, while thofe on the fides are perpendicular or fpiral. Schreber, iii. 397. t. cvii. A. a.
$\mathrm{C}_{\text {at }}$, Felis, variegated with yellowinh brown and whitifh; the tail being barred alternately with blackifl and dirty white. Brif. quad. 192.-Felis fylveftris, Catus fylveftris, Chat fauvage, or
 Sin. Buff. iv. 49. pl. xlvi.-Wild Cat. Penn. hift. of quad. n. 166. Brit. zook. i. $6_{7}$.-Wilde Kaze. Ridinger, wild. th. t. 240 .

Is of a fmaller fize than the wild varieties, having the hair fhorter and thicker. Schreber, iii. 397. t. cvii. B. I.
Felis domeftica, Felis, Catus, Clat domeftique, or Domeftic Cat. Briff. quad. 191. Aldrov. ${ }^{6} 4$. Gefn. quad. 344. fig. p. 345. Jonft. quad. 126. t. 72. Raj. quad. 170. Sm. Buff. iv. 49. pl. xlvii. Penn. hift. of quad. n. 266. Brit. zool. i. 69 .

This is fubject to endlefs variety in colour, like moft domeftic animals.
\%. Angora Cat.-Fel. Catus angorenfis. 6. $\gamma$.
Is covered with long, filky, filver coloured hair, which is longeft on the neck: Sclreber, 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. $166 ., \mu$.
This variety is exceedingly beautiful, but degenerates, after the firft generation, when brought to. Europe, from Angora, in Afia Minor, which is its native country.
Ч. Red Cat.-Fcl. Catus ruber. 6..

Has a red ftripe along the back, beginning from the head.
Rotte Kaze. Kolbe, Vorg. 153.
Inhabits the Cape of Good Hope.
». Chinefe Cat. - Fel. Catus finenfis.
The ears are pendulous, and the hair is bright, fhining, and variegated with black and yellow.
Sumxi. Sm. Buff. iv. 60. and. 64 :
Inhabits China

## $\theta$. Long.headed Cat. - Fel. Catus aureus.

Of a reddifh yellow colour, having a long flaped head with a fharp fnout, fhort legs with weak claws, and round, flat ears.
Penn. hift. of quad. n. 166. $\delta$. Seba, muf. i. 7 б. tab. xlvii, fig. 1.
Inhabits New Spain.

## 1. Saca.-Fel. Catus madagafcarenfis.

Has the tail twifted. Sm. Buff. iv. 65 .
This is a beautiful variety, which inhabits the ifland of Madagaicar.

## LYNXES.-LYNCES.

** Having fhort tails, and the ears pencilled at the tips.

The tail is annulated near the end, and tipt with black; the body is of a brownifh yellow colour; the ears are reddifh on the outfide, and tipt with a pencil of black hairs. Guldenftedt, 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 weftern fide of the Cafpian, particularly on the river Terek, near the caftle of Kinlar ; in the Perfian provinces of Ghilan and Mafenderan, 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 refembles the Wild Cat very much; it never comes near inhabited places, and feldom climbs trees; it conceals itfelf in the day, and wanders about during the night through the fields and fwamps, feeding on fifh, mice, rats, and birds, which it 'feizes by furprife.

## 2. Mountain Lynx.-F. Lynx montana.

Has upright pointed ears marked with two brown tranfverfe bars. Penn. hift. of quad. n. 168.

Chat-pard. Mem. pour fervir a l'hift. nat. i. Tro.-Catus pardus, Catus montanus, or Cat-amountain. Raj. quad. i6g. Lev. muf. Arct. zool. n. i 7.

Inhabits North America.-This fpecies is of mild and gentle manners, and grows very fat : It is about two feet and a half long from nofe to tail ; the head and whole upper parts of the body are of a reddifh brown colour, with long narrow ftripes on the back, and numerous fmall round fpots on the fides and legs; the belly is whitill; the chin and throat are pure white; the tail is eight inches long, and is barrèd with black.

The body is of a pale reddifh brown colour; the ears are black, and tufted with black.
hairs. Schreber, iii. 4 I 3. t. cx.
Siyah-ghufh. Carleton, ex. 21.t.p. 23. Raj. quad. 168. Phil. Tranf. li. p. 2.648.t. I4. Klein quad. 77.-Caracal. Smi. Buff. v. 22 1. pl. cxxiii.-Perfian Lynx. Penn. hift. of quad. n. i73. pl. xxxii. fig. 2.

Inhabits Perfia, Barbary, Arabia, and India،-This animal is about the fize of a Fox, but mueh ftronger and more ferocious, having been known to attack a middle fized dog, and tear him to pieces, in fipite of every refiftanee; it is difficult to tame, but, when taken young, is bred to hunting, in whieh it is very expert, eatching hares, rabbits; and even large birds, which it furprifes with great addrefs : It is faid to follow the Lion, to feed on his offals; but dares not do the fame with the Panther, which is eruel after being gorged; whereas the former does no injury unlefs when hungry. The head is finall, and the face long, having long flender black ears, which are white on the infide and at their bafes, and are terminated with a long pencil of black hairs; the nofe is white; the eyes are fmall; the upper part of the body is of a very pale reddifh brown; the tail darker; and the breaft and belly. whitifh; the hind part of each foot is marked with black.

The three following animals are by fome authors confidered as varieties of this fpecies, under the general name of Caracal.

## 4. Bengal Lynx.-F. Lynx bengalenfis.

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, who. gives no farther information refpecting it, than that the tail and limbs are much longer in proportion. than thofe of the former fpeeies.

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. Pern. hift. of quad. n. i 73: \&.-Booted Lynx.. Bruce, Abyf. v. i46. and fig.

Inlhabits Lybia, Barbary, and Ras-el-Feel in Nubia. - This animal is only twenty-two inches long, from the tip of the nofe to the origin of the tail; the baek, neck, and legs are of a dirty grey colour; the belly is of a dirty white, with undefined red marks or fains: It feeds much on Guinea fowls, and. on the offals of beafts left by the hunters, or by other beafts of prey.

## 6. Barbary Lynx.-F. Lynx lybienfis.

Has a white tail, furrounded with four black rings near the extremity.

Inhabits Lybia near the ancient Capfa.-The infides of the ears are white, the outfides are covercd with bufhy hair of a lively red colour, and the points are tufted with thin fhort black pencils; the feet have black patches belind like thofe of the Booted Lynx: It is about the fize of a Common domeftic Cat, and does not appear to differ very much from the former fpecies.
7. Common Lynx.-19. F. Lynx vulgaris. 7.

The tail is obfcurely annulated and black at the tip; the head and body are of a greyifh colour tinged with rel, and obfcurely maked with dufky fpots. Schreber, iii. 408. t. cix.

Felis Lynx, having a fhort tail with a black tip; and tufted ears. Syf. Nat. ed. xii. I. p. 62. n. i. —Having a fhort tail, and the body of a reddih colour with dufky fpots. Faun. Suec. i. n. 4. It. Wyoth. 222.-Having the ears tufted at their tips with very long hairs, and a thort tail. Briff. quad. 200.-Dafypus pinuum. Nieremb. hift. nat. 1 53.-Lupus Cervarius. Gefn. quad. $67 \%$. Tournef. voy. ii. t. 193.-Luchs. Ridinger wild. thiere. 22.-Lynx. Aldrov. 90. Raj. 166. Jonft. 83. t. 7 r. Sm. Buff. v. 206. pl. cxxi. Penn. hift. of quad. n. 170. Arct. zool. n. is.

## B. White Lynx.-F. Lynx vulg. albus.

Of a white colour, with dulky fpots. Faun. Suec. i. 2. n. 5. and ii. 5. n. i.r. Klein, quad. 77. Briff: anim. 274. n. г4.
2. Yellow Lyns.-F. Lynx vulg. melinus.

Of an uniform whitifh yellow on the upper parts and white beneath ; the ears tipt with black. Penn. hift. of quad. p. 279 .

Of a yellowifh white colour with dufky fots. Penn. hift. of quad. p. 280.
Inhabits Europe, America, the north of Afia, and Japan. - The Lynx keeps mofly in the recefies of the thickeft forefts, preying on deer, martins, and various kinds of weafels, cats, fquirer : es, birds, and even on its own kind, when prefied with hunger, and attacks fheep and goats er is and cots : It is a very cunning animal, poffeffed of very acute fight and finell, and atta: furprife. It engenders in February, and, after nine wecks, the female brings tiree ones at a litter: It is about the fize of a Fox, though fome arc confiderably la are, and of Wulf-luchs from the Germans; the fecond variety, or White Lynx, is rather fimallus :
8. Canadian Lynx-F. Iynx canaden/s.

Of a greyifh colour mixed with white, and difinctiy footed with blari 217. pl. cxxii.

Inhabits Canada. - This animal is only about a foot high ; the general colour is greyifh, mixed with white; the head is in fome places ftriped with black, and the whole body is fpotted, in fome places darker than others; the tip of the nofe, margin of the lower jaw, and outer edges of the ears are black; the tail is thick, very fhort and bufhy, of a reddifh white colour at the root, and black on the outer half; the under part of the belly, the hind legs, infides of the fore legs, and the feet, are of a dirty white.

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, obfcurely marked with dulky fpots. Schreber, iii. 4 r 2 . t. cix. B.

Bay Lynx. Penn. hift. of quad. n. r7r. pl. xxxii. fig. r. Arct. zool. n. i6.
Inhabits the inner parts of the fate of New York.-This animal is about twiee the fize of a Common domeftic Cat: The fore head is marked with perpendicular fripes; the upper lip, on each fide, has three rows of minute black fpots; the cheeks are marked with feveral crooked ftripes; the whole under parts of the body and infides of the legs are white, except the upper part of the fore legs, on the infide, which have two black crofs bars.
XVI. FITCHET.-15.VIVERRA. I4.

Has fix fore-teeth in each jaw; of thofe in the lower jaw the intermediate teeth are thorter than the reft: On each fide of each jaw is one tuk, longer than the other teeth: There are more than three grinders on each fide of each jaw. The tongue, in feveral fpecies, is befet with fharp pointed papillae, which fand backwards. The claws are not retractile.

The animals of this genus lave long bodies of an unform thicknefs, with fhort legs; which, for the mof part, have five toes on each foot, armed with claws which are not retractile. The ears are there and fnall, and the fiout is produced and fharp. Between the anus and genitals, is an orifice, which leads to a follicle, or receptacle, containing a fetid unctuous matter. All the fpecies are active and nimble; fome walk on a lenghened foot as far as the heel, fome climb trees, and fome dig in the earth. The females have all numerous litters.-Perhaps the Surieate, and the two Coatis, together with the Poto, ought to be arranged along with the Badger.

The tail is very thick at the root, and tapers gradually to the point, which is tufted; the inner toes are fomewhat remote from the ref. Sehreber, iii. 427 . t. cav. B.

Muftela variegata, or Weafel, tariegated with black and white. Briff. quad. 18 i. - Badger, Meles, having the middle toes longer than the reft, the outer ones of an equal length, and the claws nearly equal. Haffelq. it. 191.-Ichneumon, cailed Pharaoh's Rat, by the Egyptians. Belon. obf. 25.Ichneumon, or Egyptian Otter, Litra aegyptiaca. Aldrov. 298. fig. p. 30I.-Ichneumon. Gefn. quad. 566. Alpin. hift. Egyp. 234.t. I4. f. 3. Maillet defc. de l'Egypt. 90.t. 88. Schaw's trav. ii. upper fig. p. 74. Penn. hift. of quad. n. 21t. a.-Great Mangoutte. Sm. Duff. vii. 210. pl. cexxiii.

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 hinds of amphibious animals, ferpents, froys, 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 efpecially from its greatly diminifling the number of crocodiles, by feeding on their eggs, this animal was worfhipped by the ancient Egyptians as a deity. The Egyptian Ichneumon is about the fize of a Common domeftic Cat, but is longer in the body, and has florter legs in proportion; the forehead is flat ; the ears, fimall, rounded, and almoft naked.; the nofe is long and flender, with a fmall mouth, having a fingle row of whifkers at the margin of both lips, towards the cliceks; the upper lip is prominent, and the tongue is rough ; the tail is about the fame length with the body; the hair is coarfe, rough, and often curled, and is barred alternately with white and dufky: Under the tail, both the male and female have a remarkable aperture, leading to a kind of pouch where an ordoriferous liquor is fecreted; which faffage they are faid 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 innertoes are fomewhat remote from the reft. Schreber, iii. 430 . t. cxvi. A. and B.

Viverra Ichneumon. a. Syft. nat. ed. xii. I. 63 .-Muftela glauca. Syft. nat. ed. v. Amoen. ac. ii. 109.—Reddifh-grey Viverra. Briff. quad. m77.- Muftela, or Viverra Mangutia, fo called by the Indians. Kaempf. amoen. 574.-Quil, or Quiopela. Garcias, arom. 214. Raj. quad. 197.-Moncus, Serpenticida, or Serpent-killcr. Rumpf. herb. amboin. 69. t. 72. f. 2. 3.-Indian Ichneumon. Edw. av. 199. t. 199. Voefmaer defc. Amft. 1772-4. S. G. Gmelin it. iii. t. 30. Penn. hift. of quad. n. 2 II. ß.-Lefier Mangoufte. Sm. Buff. vii. 210. p. cexxii.

Inhabits Bengal, Perfia, and other hot countries in Afia.-This animalis fmaller and finoother than the Egyptian fpecies, but agrees with it in manners, form of body, and way of living. It gives battleto ferpents, and even attacks the naja, or cobradi capello, one of the moft deadly of that poifonous race ; and, when bitten by their poifonous 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 mafter like a Dog. The Count de Buffon confiders: this and the former as the fame fpecies of animal, only differing in fize.

The tail is thick at the origir, and gradually tapers to a point, which is blacko Schreber, iii. 434. n. 2 .

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 fhort and hairy; the mouth is garnified with a fingle row of blackifh whinkers; the hair is coare, flining, and is mixed with yellow, brown, and black colours; the feet are black.

## 4. African Ichneumon.-Wiverra Nems.

The tail is thick at the bale, and tapers to a point, of the fame colour with the reft.
Neipfe, Nems, or Nims. Smu. Buff. vii. 221. pl. ccxxiv.
Inhabits the eaftern part of Africa.-This fpecies is about thirteen inches long, from the mazzle 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; thie nazz'e is sery harp, and has no whinkers; the ears arc hort and naked; the whole upper parts of the body are covered with long coarfe hair, of a mixed dark brown and dirty white colour ; the belly is of a bright yellow; the head and fpace round the eyes are yellowifh; the nofe and cheeks are covered with fhort brown hair of various fhades; the legs are covered with fhort hair of a deep yellow colour; on each paw are four toes, with a fmall one behind the reft, and the claws are fimall and black.

Has only four toes on each foot: The body is of a grey colour, having ten tranfverfe black ftreaks; the tail is of a dark reddih 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 almoft ftraight; thofe on the hind feet are fhort, and hooked; the tail is flender ; the fnout long; and, according to Somnerat, there are only two fore-teeth in each jaw, together with fix tuiks.

## 6. Surikate.-5. Viverra tetradaityla. 9.

Has only four toes on each foot; the nofe is long and flexible. Schreber, iii. 434. t. cxvii. Tour-toed Weafel. Riiller, on var. fub. T. xx. Penn. hif. of quad. n. 212.-Surikate. Sm. Buff. vii. 166. pl. ccxv.-Klapper-maus, Meer-Rat, or Suracatje \%. Pallas, Mifcel. zool. 59. 60.

Inhabits the fouth of Arrica, and the inland of Java. - Is about a foot long from nofe to tail, which is about eight inches long: It feeds on animal food, and eats raw flefh; being particularly fond of chickens, eggs, and fifh; it burrows in the ground, digging the carth with its fore feet; is eafly tamed, and in that fate is of gentle mannors. The head is depreffed ; the muzzle is very fharp pointed, the upper jaw being much longer than the lower, and the tip of the nofe is black; the cheeks are inflated ; the mouth is furrounded with black whifkers, which grow from warty tuberofities; the curs are black, fmali, rounded, and fat; the back is broad and roundel; the belly broad and flat;

[^8]the legs are fhort, with fmall feet, having long claws before and dlort 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 yellowith brown; the tail is thick at the bafe, ends abruptly, and is tufted with black: It makes a grunting noife, is much in motion, and often fits upright, with its fore legs hanging down; and when pleafed makes a noife like that of a fmall rattle rapidly turned.

## 7. Coati.-6. Viverra nafua. 2.

Of a dark brown colour ; the tail is furrounded with alternate white and brown rings; the nofe is long and flexible. Sclreber, iii. 43 . 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. Braf. 228.-Coati-mondi. Act. Parif. iii. P. 3. p. 17. t. 37. Raj. quad. 180. Houttuyn, zamenftel ii. 238. t. 15. f. 2.-Black Coati. Sm. Buff. v. 53. pl. civ.Brafilian Weefel. Penn. hift. of quad. n. 215--Guiana Badger. Bancroft, Guian. 141. Lev. Mur.

Inhabits South America.-The Coati is about the fize of a Hare, being eighteen inches long from the point of the nofe 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 fpots above, below, and at the fide of the eyes; the hair on the back is fomewhat harfh, but on the reft of the body it is fmooth, foft, gloffy, and clofe fet ; on the belly, the breaft, and under the jaws, it is whitifh; the ears are fmall, 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 probofcis or fnout, which is moveable in every direction, having the point as if cut off in an oblique direction inwards, and wanting the ufual furrow on the upper lip: Of the fore-teeth, the lateral ones in the upper jaw are larger than the reft, and the middle ones below are convergent; the tongue is divided by fiffures into lobes, like an oak leaf; the tail is carried high, is almoft as long as the body, is of a brown colour, having ten pale or whitifh rings, is flattened fo that the hairs fhed a little outwards, and is narrowed or compreffed at the point; the feet reft 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 fame line with the reft, and the claws are compreffed and fharp pointed: This animal digs remarkably well, fearching for earth worms, on which it feeds, as likewife on mice, apples, bread, eggs, and poultry; when irritated it gives out a moft intolerably ftinking odour.

## 8. Coati-mondi.-7. Viverro narica. 3.

Of a hoary brown colour ; having the tail of the fame 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.-Durky Brafilian Weefel. Penn. hift. of quad. n. 21 5. $\beta$.-Brown Coati. Sm. Buff. v. 53. pl. cv.—Coati-mondi. Marcgr. Braf. 22 S.

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Inhabits South America.-This animal is rather larger than the former, from which it difiers principally in colcur; fometimes the tail of this fpecies, of variety, is obfeurely annulated: The hams on the back and fides are dufky at the roots, browin in the middile, and tipt with yellow; the chin, throat, fides of the cheeka, and belly are yellowifh; the feet are black and naked: The Coati-mondi digs fo deeply as to bury the whole body, except a fmall part of the tail; it likewife climbs trees, and even takes the water in fearch of food, living on worms, bread, fruits, roots, eggc, finall animals, and birds.

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. 18 r.-Coaffe. Sm. Buff. vii. 295. pl. cexli.

Inhabits the fouthern ftates of North America, Louifiana, New Spain, and Mexico.-The Coaffe is about fixtecn inches long from the nofe to the origin of the tail; the head is of a conical form, with a projecing fnout of a modcrate length, having black whifkers; the whole body is covered with long, thick, and coarfc hair, which is of a uniform brown or chefnut colour; the tail is longer than the hind legs, bufhy, and of the fame colour with the body; the legs arc fhort; the fcet are large and naked, having four toes on the fore feet; the claws are black and fharp pointed: When irritated or frightened, this animal emits a mof fetid odour; and the urine ftains and infects whatever it touches, almoft indelibly, with this abominable fcent: It lives in the holes and clefts of rocks, feeding on beetles, worms, and fmall birds.

> 10. Quasje.-9. Viverra 2uasje, 11.

Of a chefrut colour above and yellowifh underneath; having a long fnout, and the tail being furrounded with different coloured rings. Syft. nat. ed. x. i. 44.

Meles fpadiceo-nigricans, or Badger, of a deep blackifh chefnut colour, having a dufky tail variegated with yellowifh rings. .Briff. quad. 185.-Ichneumon, called Yzquiepatl. Seba, Muf. i. 68. t. 42. f. 2.-Tamandua mexicana, Yzquiepatl, or Little Fox. Seba, Muf. i. 66. t. 40. f. 2.?Stifling Weefel. Penn. hift. of quad. n. 216.

Inbabits 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, infcets, and fruits; may be domefticated, and is very fetid.

## 11. Striped Skunk.-10. Viverra Putorius. 4.

Of a blackifh colour, having five parallel white ftripes, from the head along the back and fides to the tail. Schreber, iii. 442. t. cxxii.
Muftela nigra, or Black Weafel, laving white ftripes on the back. Briff. quad. 8 1....-Polecat, Skunk, of Filkatta. Catefly Carol. ii. 62. t. 62.-Concpate. Sm.Buf. vii. 295. pl. cexliii.--Striated Weefel. Penn. hift. of quad. n. 217. Aret. zool. n. 32.

Inhabits North America.-This animal is about the fize of a domeftic Cat, but longer bodied, and fhorter in the limbs; the head is round, with a lengthened fnout, and naked nore, having three rows of whifkers round the mouth, which has but a theat opening, or rictus; the neck is very fhort; the head, neck, body, legs, and tail are black, having five white ftripes 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 fhorter than the hind legs; the hind feet are long, and, in walking, reft on the heel; both hind and fore feet have five toes, thofe before having very long and compreffed claws, while thofe on the hind feet are much fhorter, and arc 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 compreffed in their fhape, 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 itand clofe to the reft of the teeth, but more fo in the lower jaw. This animal digs holes, in which it conceals itfelf, and fleeps during the day, going about only in the night, feeding on worms and infects, and is fond of flefh, poultry, and eggs: When attacked by dogs it briftes up the hair on its back, and throws its body into a round form ; and when irritated or frightened, like moft of the fpecies of this genus, it emits a fhockingly offenfive fetid vapour, and ftinking 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 thie earth.
12. White Skunk.-12. Viverra Mepbitis. 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. hift. of quad. n. 218. Arct. zool. n. 33.
Inhabits America from Chili to Canada.-This fpecies is about fixteen inches long from the nofe to the tail ; the head is black, with a lengthened fnout, and having a longitudinal white line from the nape of the neck to the nofe ; the upper part' of the neck, the whole of the back, except a longitudinal black line along the middle of its pofterior half, and the whole tail is white; the tail is covered thickly with very long coarfe hair, in fome varieties, it is of a blackifh colour, and is fometimes tipt with white; the fides, belly, legs, breaft, and throat are black; all the toes are furnifhed with long claws; the hair on the whole body is long, fhining, and coarfe: This animal is very fond of eggs ; it defends itfelf, like the laft defcribed, by means of an intolerable fetor, yet may be tamed.

Of a blackifh 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.

The body is mottled with black and white. Schreber, iii. 445. t. cxxiii.
Mafutiliqui, or Mapurito. Gumilla Orenoque, iii. $24^{\prime}$. - Zorille. Sm. Buff. vii. $295^{\circ}$ 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 tranfverfe bands; the hair is long and flining; the tail is covered with very long coarfe hair, being black at the rump and almoft to the middle, the reft white; the legs and belly are black: 'This animal emits the fame abominable odour with the Skunks, fo as even to fupify and overcome the Jaguar, or American Panther.

## 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. Aftitis, act. Holm. if69, p. 68.
Inhabits New Spain, near the mines of Pamplona. - Is about twenty inches long, from the finout to the tail, which is nine inches long, and whitith at the tip; the head is fmail, with a long muzzle, fmooth 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, fleeping all day, and going about during the night; it is fwift of foot, and feeds on worms and infects.-Probably a variety of the Skunk.-T.

## 16. Grifon.-1 ${ }^{5}$. Viverra vitiata. 16.

Has a white fillet from the fhoulders acrofs the fore head. Schreber, iii. 447. t. cxxiv.
Grifon, or Grey Weafel. Sm. Buff. iv. 266. pl. lxxviii. Penn. hift. 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 defcribed by Mr Allamand in his Dutch edition of Buffon; and, what is fingular, the remarkable fillet acrofs the fore-head and down the fhoulders, though engraved by the Count de Buffon for the improved edition of his Natural Hiftory, and given by Dr Gmelin, from Schreber, as the fpecific diftinction of the animal, is not in the fimalleft degree noticed in Buffon's account of the animal, as quoted from Allamand. The head is very large, with fhort femicircular ears, and large eyes; there are fix cutting teeth in each jaw, four of them hardly rifing above the gums; all the feet have five toes, with yellowifh claws; the body is about feven 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 bo$d y$, the legs, and tail are black; the tail is about half the length of the body, and terminates in a point.

Is of a mixed grey and dufky colour on the upper parts of the body, and whitifh underneath. Schreber, iii 45 r.

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 fomewhat retractile; the tail is as long as the body, and is fomewhat thickened at the origin; the mouth is furnifhed with five rows of whikers, and the lower lip is jagged on the edges ; the lateral fore-teeth, in the upper jaw, are fomewhat longer than the reft, and conically pointed; the reft of the fore-teeth in both jaws are blunt ; the tongue is warty.

## 18. Cape Fitchet.-17. Viverra capenfis. 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.
Muftela fubfufca, or Brownifh Weafel, having a longitudinal white line along each fide. Brown, Jamaic. 486. n. i.?-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 feecies of this genus, defends itfelf againft enemies by emitting an intolerable ftench: 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 harfh.-Dr Gmelin thinks this quadruped may be allied to the Glutton: Mr Pennant fuppofes it the fame with the Ratel of Sparrman, defcribed afterwards as a diftind fpecies of this genus, under the name of Viverra Niellivora.

## 19. Civet.-18. Viverra Civetta. 19.

The tail is fpotted on its upper part, and dufky towards the point; the back has a chefnut coloured mane, and is marked with grey and dufky fpots. Schreber, iii. 418. t. cxi.

Badger, Meles, variegated with white, black, and reddifh ftreaks and fpots. Briff. quad. 186.Civet, or Hyaena, of the ancients. Bclon, obf. 208. f. p. 209. - Civetta. Cluf. cur. poft. 57.-CivetCat, 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 manņers, this animal refembles the Cat, háving a head fomewhat like that of the Indian Ichneumon; the face is fpotted under the eyes, and the back has numerous chefinut coloured fpots, both round and angular, which change into ftreaks towards the thighs; the legs are of a very dark blackifh brown colour; in each jaw, on each fide, are fix grinders; the head is long, with a fharp muzzle, which is black at the tip, and fhort rounded ears; the fides of the face, chin, breaft, legs, and feet, are black; the reft of the face, and part of the fides of the neck are white, tinged with yellow, having three black ftripes from each ear, ending at the throat and fhoulders; the back and fides are cinereous, tinged yellow, and marked with rows of dufky fpots; the hair is coarfe, and ftands up on the back like a mane ; the tail is fomewhat bufhy, fometimes wholly black, and fometimes footted near the bafe; the body is about two feet three inches long from nofe to tails which is fourteen inches in
length : The perfume, named Civet, is produced by this fpecies and the next in a lack, or aperture, which is fituated between the anus and the privities, in both fexes: The Civets are kept in cages for this purpofe, having the perfume, which is about the confiftence of foft pomatum, fcraped out with a fmall fpoon two or three times a-week, and yield about a dram each time. In a wild fate this animal is ferocious, and preys on birds and fmall quadrupeds; but may be domefticated, and will feed on Millet pap, raw flefh, and fifh.

The tail is marked with coloured rings, and the back is variegated with waved black and white ftreaks. 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.-Mufk animal. Act. Parif. ${ }^{1731}$, p. 443.-Zibet. Sm. Buff. v. 239. pl. cxxvi. Penn. hift. of quad. n. 223. ß.-Odorifeŕous Hyaena. P. Caftellus, Francof. 1698, p. 8.-Its Anatomy. Bertholin. cent. 4. n. 1. and cent. 5. n. 49.

Inhabits Arabia, Malabar, Siam, and the Philippine iflands.-This is a ferocious animal, which is fcarcely tameable, yet may, with difficulty, be domefticated, and very readily returns to its original ftate of ferocity: When irritated, it erects the hair of the back, and defends itfelf by biting; it lives on fmall quadrupeds, birds, and fifhes, 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 fomewhat lefs than the reft; in the lower jaw are likewife fix fore-teeth, whereof thofe in the middle are a little fhorter than the others, being alternately placed within the general line of the teeth; in each fide of each jaw is one tulk, which ftands at fome diftance from the other teeth; the grinders are fharp, pointed, and acutely knobbed, and of thefe there are five on each fide in the lower, and fix in the upper jaw; the ears are proportionally thorter than thofe 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 coarfe, clofe fet, 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 footted with black and afh 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 duiky, and black at their lower extremities; the tail is longer than that of the Civet, not bufhy, 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 furnifhing the fame kind of perfume.

## 21. Hermaphrodire Fitchet.-20. Viverra bermaplurodita 20.

Has a long tail, black at the tip, and three black ftripes along the back. Schreber, iii. 426. n. 6.

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 ther fine of the perineum, having a double fold, from which the trivial name is derived.-Pallas.
22. Spanilh Genet.-2 . Virerra Genetla. 6.
las a long tail marked with coloured rings; and the body is covered with dulky blackifh fpots. Schreber, iii. 423.t. cxiii.

Muftela, Weafel, having the tail variegated with alternate black and white rings. Briff, quad. 186. -Genette. Belon. obf. 73. Gefn. quad. 549.-Genith kaze, Chat d'Efpagne. Ridinger, illum. thier. t. Q.D.S. xxviii.-Genet. Sm. Buff. v. 254 . pl. cxxviii. Penn. hift. 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 moift places, and the neighbourhood of brooks; it is of gentle difpofitions, and eafily domefticated; and, like the Cat, is ufeful for catching mice; the body is long, with fhort legs, a flender head, and fharp muzzle; the hair is foft, flining, and of a greyifh afh colour, marked with black fpots, which are round and detached on the fides, but unite on the back, fo as to form the appearance of continued black longitudinal ftreaks; on the neck and ridge of the back is a black lift of long hair, forming a mane ; the black fpots on the neck form bars or ftreaks; and the tail has feven or eight black, and as many whitifh rings, alternating with each other; on each fide there are fix grinders in each jaw.

## 23. St Germains Genct. -Viverra gallica.

Has a long bufhy tail, the firft third part of which is whitifh grey, mixed with black hairs, and obfcurely marked with blackifh rings, and the other two thirds are black. Sm. Buff. v. 256. pl. cxxix.

The country of this quadruped is unknown. It was fhown at the fair of St Germains in 177z.— 'The body and head are twenty inches long, and the tail fixteen ; the head is long and flender, with a long muzzle, round black ears, large eyes, and long black whifkers, lying flat on the cheeks; the nofe is black, and the noftrils are much arched; a black line, beginning above the nofe, extends to between the eyes, having a white line on each fide of it ; there is a white fpot above each eye, and a white line below each; the hair on the body is of a whitifh grey, mixed with large black hairs, which form a kind of blackifh undulations; the upper part of the back is ftxiped and fpotted with black, and the reft of the body is very obfcurely fpotted with the fame; the belly is whitifh, the legs and thighs black; the paws are fhort, having five toes on each, armed with white crooked claws ; the hair on the upper part of the neck is fomewhat bufly ; the tail is thick at the origin: This is a fierce, biting animal, which feeds on flefh; and has the phyfiognomy and principal characters of the Spanifh Genet.

The tail is very long and annulated; and the muzzle is marked with a white fpot on each fide of the nofe, and another on the outer fide of each eye. Penn. hift. of quad. n. 225 . ${ }^{3}$. pl. xxxvii. fig. 2. Lev. muf.

The place of this animal is unknown, it being defcribed by Mr Pennant from a fpecimen in the Leverian Mufeum.-It is about the fize of the Spanifh Genet, to which it bears a great refemblance; for which reafon $I$ have given it the name of Genet, inftead of Foffane, with which animal it is in fome degree confounded by Mr Pennant. The fides, thighs, rumps, and upper parts of the legs are cinereous, having many long black hairs on the back; the fhoulders, fides, and rump are marked with fome difperfed black fpots; the tip of the nofe, the cheeks, and the throat are black ; the forehead, upper parts of the cheeks, and ridge of the muzzle, einereous; the éars are large, upright, rounded, thin, naked, and black; and a black line runs from behind each to the fhoulder; the tail is as long as the body, of a cinereous colour, mixed with tawny near the bafe, and annulated with black.

## 25. Foffane.-22. Viverra Foffa. 21.

The tail is obfcurely annulated; the body is cinereous grey, and fpotted with black.
Erxleb. mam. 498. Schreber, iii. 424. t. cxiv.
Foffane. Sm. Buff. vii. 219. pl. ccxxv. Penn. hift. of quad. n. 225.-Berbe. Bofman, Guin. 239.

Inhabits Madagafcar, Guinea, Cochin-China, and the Philippine ifles.-This animal comes neareft in fize and form to the Genets, but has not the perfume bag, or aperture: The body is flender, and it and the legs are covered with cinereous hair mixed with tawny, and obfcurely fpotted with black; from the hind part of the head four black lines extend to the back and fhoulders; the tail is thick, not near fo long as the body, ends abruptly, and is obfcurely 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 mifchievous afpect; it feeds on flefh and fruits, but prefers the latter, efpecially Bananas.
26. Bizaam.-23. Viverra tigrina. 22.

The tail is annulated and tawny at the tip; the body is cinereous, fpotted with dufky brown, and having a black lift along the back, from the head to the origin of the tail. Schreber, iii. 425 . t. cxv.

Chat bizaan. Volmaer, defcr. d'une efp. fing. de chat afric. Amft. 1771.-Blotched Weefel. Penn. hift. 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 yellowifh white, having a round black fpot on each fide of the former, and a dufky line down the middle of the fore-head; the back and outfide of the limbs are of a reddifh brown colour; the fides and thighs are yellowifh white, blotched with deep brown; the tail is as long as the body, of a reddifh brown colour, and annulated in a fpiral direction with black near the end. This animal is of a tolerably mild difpofition,
fition, has no mufk or civet odour, and feeds on flefli, preferring that of birds: Dr Gmelin fufpeets it to be the fame with the Foflane, defcribed above.
27. Poto.-24. Viverra caudivalvula. 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. nl. 千th, ccxl.Yellow Maucauco. Penn. fyn. quad. 13. 108.

This animal is faid to inhabit the mountains of Jamaica.-It is of mild and playful difjofitions; it ufes the end of its tail to lay hold of any object, or to fufpend iis body, in the fame way with the Sapajous; and, when afleep, lies with its head under the belly, and rolled up like a ball: The head is broad and flat, with fwelling cheeks; it has a flort dufky nefe; fmall eves; fhort, broad, flapping, and diftant ears; and a very long tongue; the body is about nineteen inches long, and the tail leventeen; the fur is fhort, foft, gloffy, and clofe fet; on the head, back, and f.cles, it is of a mixed black and yellow colour; the cheeks, infide of the legs, and the bully are yellow ; a broad dufky ftripe runs allong the middle of the back from the head to the tail, and another, of the fame colour, from the middle of the belly to the tail ; the tail is round, and of a mixed tawny, or chefnut brown, and black colour; the legs and thighs are very thick and fhort, having five toes, all fanding forwards, on eacle foot, armed with large flefh coloured claws, which are fomewhat hooved.

## 28. Kinkajou. -Viverra prehengilis.

Of an olive yellow colour, mixed with grey and brown; having a long prehenfile tail.
Sm. Buff. vii. 289. pl. 3d, ccxl.
Mexicañ Weefel. Penn. hifr. of quad. n. 214 .
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 refenbles the Poto very much, but is greatly larger in all its dimenfions; its manners are gentle, and lively, having many of the actions of the Monkey, and ufes its tail like the Sapajous; if fits up, and ufes its fore paws to catch any thing, or to eat with, like a Squirrel; it is fond of fugar, and all fweatmeats, fruits, and vegetables; will likewife attack and kill poultry, fucking their blood from under the wing, but does not eat the flefl : The nofe is duiky; the tongue is very long; the eyes are fimall; the ears are fhort, rounded, and dufky; the fides and under part of the throat, and infides of the legs, are of a lively yellow colour; the belly of a dirty yellowih white; the under part of the paws is naked, and of a vermiiion colour, having five toes armed with white hooked claws, whicl are guttered beneath.

The back is of a dark grey colour, with a black ftreak along each fide; the belly is black; the claws are long, hollow underneath, and fitted for digging. Blumenbach Naturg. 97.
Ratel. Sparrman, act. Stock. r 777 , t. iv. f. 3.
NoL. I.

Inhabits the Cape of Good Hope. - This animal lives on wild honey and wax, which he digs from the holes of lorctpines, Jerboas, Rabits, Jackals, and other animals, in which the bees form their hives; thefe he difovers by obferving the flights of the bees, or is led to them by following the, Cuctulus indicator, or Honey-guide Cuckoo, which feeds on bees, and points out their p laces of abode. The fur of this animal is very thick fet, and the flin is extremely lax, though exceedingly thick and ftrong.

## 30. Striped Firchet. - 26. Viverra fafciata. 25.

The body is of a grey colour above, having fix longitudinal black fripes, and is white on the under parts; the tail is covered with long black and reddifh hairs.

Indian Wild-Cat, having black ftripes. Someret, it. ii. 193. t. 90.
Inlabits India.-The body of this fpecies is about two feet nine inches in length; the feet have each five toes, armed with ftrong hooked claws; and the eyes are very vivid. According to Sonneret, there are fourteen tuffs, and only two fore-teeth, in each jaw.

The tail is very long, and marked with black rings; the body is of a grey colour, being fpotted with black on the upper parts, having four round fpots above the eyes, and three black fripes on the neck and back.

Malayan Civet. Sonneret, it. ii. 144. t. 9r.

Inhabies 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 mufk or civet, and retains its urine for a great length of time, on which account it is held in great eftimation by the Nialays as an aphrodifiac, and ftrengthener of the ftomach : The body is of a pearly white colour, marked with fix rows of fmall black fpots, feven in each row; the upper part of the head, the thighs, and legs, are black; the ears are very finall and rounded; the eyes are fmall and of a black colour; the feet are provided with five claws, which are armed with harp, hooked, and retractile claws. -On account of the retractile nature of the claws, this quadruped might be fuppofed to belong to the genus of Felis, but is excluded from that tribe by the fharpnefs of the muzzle and length of the body.-T.

The body, legs, and tall, are black, irregularly blotched with white.
Spotted Martin. Philips, voy. to New-Souib-Wrales, 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 numerons long reverfed whikers; the tail is long, taper, and of the fame length with the body; the legs are of a moderate length, with very long feci, refting on the heels, and having five toes on cach foot, the inner toe on the hind feet being fepurated from the reft, and is very fmall, and floort.

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\text { XVII. WEASEL.-16. MUSTELA. } 15
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Has fix cutting teeth in each jaw; thofe in the upper jaw are erect, fharp-pointed, and diftinct; in the lower jaw they are blunter, huddled together, and two are placed within the line of the reft: The tongue is fmooth.

In many circumftances the Otters and Weafels agree together ; the body is very long, and of an equal thicknefs; the legs are fhort, with fmooth thining hair; the claws are not retractile; they dig holes, or burrows, in which they refide ; and they chiefly go about, in fearch of prey, during the night: But the Otters live almof conftantly in the water, fwimming with great readinefs, both on the furface and below it, and fubfift chiefly on fifh; they do not climb trees, neither do they leap, with a crooked body and ftretched out tail, in the manncr of the Weafels; the liead of the Otter is larger and thicker; the tongue is covered with foft papillae ; they have five grinders on each fide of each jaw: The Weafels have four grinders above and five below, or five above and fix below, on each fide. From all thefe circumfances, and from the peculiar conformation of their feet, perhaps it were proper to feparate them into diftinct genera; but as they are placed in the fame genus by the great Linnaeus, thefe animals are here only divided into two fubordinate fections.

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\text { * O T T ERS.-LUTR } \mathbb{E} \text {. }
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Having the toes of the hind feet webbed, or connected together by a membrane.

## I. Sea Otter. s. 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. $3^{67}$. t. 26.

Inhabits the coafts of North-weft America and Eaftern Afia, and the intermediate iflands.-The head is flat, having finall, roundifh, hairy ears; an obtufe muzzle, with a black nofe, the upper jaw being longer and broader than the lower, and having numerous ftiff whifkers, above and at the fides of the eyes, near the corners of the mouth, on the fides of the under lip, and under the throat; in each jaw are fix fore-teeth, thofe above being equal in fize and appearance, while of thofe in the lower jaw, the two outermoft are divided into two lobes, and two aiternate teeth of thofe in the middle are fet within the line of the reft; the legs are thick and fhort, having five toes on each foot, all of them connected by membranes; the tail is flattened and confiderably fhorter than the body. This animal is, from nofe 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 largeft individual weighs from feventy to eighty pounds; the fur is very thick, long, black, and gloffy, fome-
times varying to filvery, with a foft down beneath. The Sca Otter lives mofty in the fea; is exceedingly hamlefs, and very affectionate of its young; it runs fwiftly on the land, and fwims with great facility, frequenting flallows which abound in fea weeds; it feeds on lobfers, fifh, Sipiae or Cuttlefifh, aid thell-fin; it breeds once a-year; the female brings forth but one at a tirec, which fhe fuckles near a twelvemonth. The thins are much in requeft, being fold at a very high price to the Chinefe. The trade for this Sur ai Nootka had lately almoft produced a war between Great Britain and Spain.

Of a Elack colour, with a yeliow fot below the chin; the tail is flat, naked, and reaches only to the fee:.

Kutra nigra, or Black Otter, with a yellow fyot below the chin. Brifi. cquad. 202.- Braflian Otter. Raj. quad. 189. Filein quad. 9t. Pem. hift. of quad. n. 227.-Lutra nigricans, or Blackifh Otter, having a naked fiattened tail. Barrere Fr. equin. 155.- Jiya, or Carigueibeia, of the Brafilians. Marcgr. Braf. 234. Jonft. quad. t. 66. Des Marchais, iii. 306.-Guachi. Gumilia, hift. de l'Orenoque, iii. 239.

Inhabits Drafi, 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 teetin; the eyes are finall, round, and black; the muzzle has large whinkers; the ears are round; the feet are like thofe of a Monkey, having each five toes, the inner one thorter than the reft, armed with fharp claws; the hair is fhort, foft, and entirely black, except the head, which is dufky, and the throat, which is yellow: It lires on fifh and crufaceous animals, robbing the finhcrmen's nets and wears, with great dexterity; is very fierce, but may be tamed when young; it burrows on the banks of rivers, and lives in fociety, going together in large troops.

## 3. Saricovienne.-M. Lutra paraguenfis.

About the fize of a cat; of a mixed grey and black colour ; and having webbed feet.
Saricovieme. 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 flefh is reckoned very delicate eating.

## 4. Chilefe Otter.-M. Lutra cbilenfis.

Has hairy webbed feet; and a long round tail. Molina, hift. nat. Chil. l. iv. 252.
Inhabits the coafts of Chili.-Dr Gmelin only mentions this fpecies in a note of his edition of the Syftema Naturae, and feems uncertain whether it ought to be conndered as an Otter, refembling the Brafilian fpecies, or as a fpecies of Weafel, allied to the Cat tribe, Mufcla folina: The defcription of the feet is certainly a fufficient mark of its belonging to the tribe of Otters.

The hind feet are webbed and naked; and the tail is about half the length of the hody.

Muftela Lutra. Syft. nat. ed. Gncl. 1. p. 93. n. 2. Faun. Succ. 12. S. G. Gmel. Jt. iii. 28 5. 373. Eryleb. mam. 448. n. 2. Schrcber, iii. 457. t. cxxvi. A. B.-Lutra, or Oiter, with equal toes. Faun. Suec. i. n. 10. Gefin. quad. 775. fig. p. 776. Gefn. aqu. 603. Aldrov. 2y2. f. p. 295. Jonft. quad. 150.t. 68. Raj. quad. r87. Sm. Bufi. iv. 232 . pl laviii.-Greater Oter. Pemn. hifi. of quad. n. 226. Brit. zooi. i. n. 19. Prit. zool. illuft. tab. c. Arct. zool. n. 34-Thichoter. Ridinger, wilde thier. t. 28.-Its Anatomy. E. N. C. d. ェ. a. 3. obi. 193. and d. 2. a. 10. obf. 112 . and cent. Io. app. 468.

Inhabits Europe, North America, and $A$ fia, as far fouth as Perfia. This animal frecquents frefh water rivers, lakes, and fift ponds, but is nercr found in the fea; it preys on fifl, frogs, and frefl water crufaceous aminals, being exceedingly deftructive to fifla ponds; it lives in holes under ground, which elways open under the furface of water; thefe are conftrufted with great care to prevent their being overfowed, and are carricd upwards io as to, have a fmall air-hole opening in the midule of fome buth. The Citer procreates in Fepruary, and brings forth three or four young ones in May; the male calls the female by a foft mumuring noile; it is a crafty, and cruelly biting animal, yet may be tamed, and even emplojed to catch ith for its maiter. It is in gencral about two feet long, from the tip of the nofe to the bafe of the tail, which is fixteen inches in fength; the male weighs fron eightecn to twenty-fix pounds; the female from thirteen to twenty-two: The fur is of a deep brown colour, with two finall white fpots on each fide of the nofe, and one beneath the chin; the throat and breaft are cinereous; the head is broad and flat, wirh a thort broad nole, thick lips, and large whifkers; the ears are fhort; the neck is fhort and thick; the legs are fhort, thick, and loofely connefted to the body, having on each foot five toes, which are connected together by webs.

## 6. Canadian Otter:-M. Lutra canadenfis.

Of a black colour and fmooth fur ; with a long taper tail. Sm. Buff. vi. 324 . pi. cexlvii.
Inhabits Canada, and other parts of North Americn.-The Count de Buffon, inftead of deferibing this animal, gets into a long difquifition about the Latax of Arifotle, which he finally determines is not the fpecies in queftion. In a note, he quotes Dennis, who fays, that the Otters of North America are commonly much larger and blacker than thofe of Europe, fome being as black as jet; and that their fur is finer. By the plate, the throat and lower parts of the face feem of a whitifn or grey colour.
7. Leffe Otter.-3. M. Iutira 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.
Muftela Latreola. Syft. nat. cd. Gmel. i. p. 94. n. 3.-Lutra minor, or Leffer Otter. Erxleb. mam. 45 I. n. 3. Schreber, iii. 462. t. cxxvii. Penn. hift, of quad. n. 228. pl. xxxviii. Arit. zool. n. 35--Dufky Weafel, Viverra fufa, having a white mouth. Leche, ač. Holm. 1759, P. xxi. $29^{2}$. t. If.-TViverra Lutreola. Palias, fpicil. zool. xiv. 46. t. S. f. I.-Noerza. Agric. de anim. fubter. 39.

Inlabits Germany, though rarely, Poland, Finland, Rufia, and Sibenia. - Lives in marthy places, preying on fifh and frofs: Seldom exceeds a foot in leagtin: The body is of a tawny and dufky com
lour mixed together, the fur having two feries of hairs, the thorter of which are yellowifh, 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 dufky, and becomes broader and darker coloured towards the end. This is a moft exceffively fetid animal, but its fur is very valuable, being efteemed next in beauty to that of the Sable.

## S. Cayenne Otter.-M. Lutraguionenfis.

The hind feet are webbed; the toes on the fore feet unconnected; and the tail is long, taper, and naked.
Small Guiana Otier. Sm. Buff. iv. 236. pl. 1xix.
Inhabits Cayenne, and probably in other parts of South America. -Is only about feven inches long, from the nofe to the rump; the tail is near feven inches long, of a brown colour, has no hair, is thick at the origin, and gradually diminifhes to the extremity, which is white, it is round above and flat below, and is covered with a rough granulated flin; the upper parts of the head and body are marked with large browniih black fpots, exactly correfponding on both fides, and the intervals are of a yellowilh 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 fpot over each eye; the ears are large and round; the mouth is garnifhed with long whifkers.

The Count de Buffon informs us that there are three fpecies of Otters in Cayenne: ift, Black, which weighs from forty to fifty French pounds. 2d, Yellowifh, weighing twenty or twenty-five pounds. 3d, The fmall greyifh kind, above defcribed, which only weighs three or four pounds. The other two are not defcribed; but they are faid to appear in numerous troops, to be very fierce and dangerous, and to defend themfelves againft dogs, biting very cruelly; they litter in holes which they dig on the banks of rivers; are often tamed and brought up in houfes.

The fame great naturalift, on the authority of two gentlemen who refided in Cayenne, mentions a large animal, under the name of Otter, weighing near a hundred pounds, which lives in the large unfrequented rivers, often fhowing its head above water; its cry is heard at a great diffance; the hair is foft, thort, and of a dark brown colour; it lives on fifh, and fuch grain as falls into the water from the bank,-I thould rather fufpect this laft 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. $4^{63}$. tab. cxxvii. B.

Muftela Vifon. Syff. nat. ed. Gmel. I. p.94. n. 5.-Muftela caftanea, Weafel, having the whole body covered with dark chefnut coloured hair. Brinif. quad. i $7^{8 .}$ n. 6. - Minx. Lawfon Carolin. 12 I. Kalm. it. iii. 22.

Inhabits North America.-This animal lives on the banks of the rivers, preying on filhes, birds, and mice, and fometimes frequents the farm-houfes. Mr Pennant confiders this as being the fame animal with the Leffer Otter already defcribed, 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 Vifon, which has a much greater refemblance to Weafel than to an Otter, and cannot therefore be
the fame with the animal in queftion : For this reafon, and on the authority of Mr Pennant, the Vifon is removed to the divifion of Weafels.

## ** WEASELS.-MUSTEL 无.

Having the toes unconnected.

## 1. Tayra.-I. Muffela barbara. 4.

Of a black colour; having a three lobed fpot on the under part of the neck.
Muftela maxima, or Largeft Weafel, of a black colour, having a frong fcent of mufk, called
${ }^{\text {r Fayra. Barrere, Fr. equin. 155.-Guiana Weefel. Penn. hift. of quad. n. } 209 .}$
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 afh 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 itfelf againft trees, leaves a kind of uncuous matter which has a ftrong odour of mulk.

## 2. Galera.-2. Mufela Galera., 2.

Of a uniform dufky brown colour. Erxleben, mam. 453.
Galera fubfufca, or Brownifh Galera, called Guinea Fox; having a long tail, black eyes, and flat, almoft naked ears. Brown, Jamaic. 485. t. 29. f. I.-Guinea Weefel. Penn. hift. of quad. n. 208. -Galera, or Tayra. Sm. Buff. viii. 265.

Inhabits Guinea.-This fpecies is about the fize of a fmall Rabbit, and is flaped like a Rat; the upper jaw is much longer than the lower ; the eyes are placed midway between the ears and tip of the nofe; the ears refemble thofe of mankind ; the tongue is rough ; the tail hangs downwards, and tapers to the point ; the feet are frong 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 feparate them.-T.

The colour of the upper parts of the body is brown; that of the under parts pale yellow ; the tip of the tail is blackinh.

Viverra javanica, or Java Weafel. Brifi. quad. 2.45. Seba, NIuf. 1. 77. t. 48. f. 4.-Vanfire Sm. Buf. vii. 221. pl. cexxvi. - Madagafcar Weefel. Tenn. hif. of quad. n. 203.
Inhabis Madagafcar and the interior parts of Africa.-The lergth, from ihe 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 fhort; in the upper jaws are twelve grinders, fix on each fide, and ten in the lower.

## 4. Pekan.-3. Muflela canadenfis. 13.

The fur is of a blackifh tawny, or bay, colour; having a white fpot on the breaft. 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 glofly, cinereous at the roots, and of a bri:ght 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 garnifhed with very long and ftrong whifkers.

Of a bright and gloffy tawny brown colour ; the tail dufky. Sm. Buff. vii. 30\%. 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.
6. Common Martin.-4. Mufela Foina. 4.

Of a blackifh chefnut colour; the throat and breaft white. Erxleb. mam. 458. Schreber, iii. 472 . t. cxxix.

Weafel, Muftela, having the hairs whitifh at the roots, and chefnut coloured at the extremities; the throat white. Briff. quad. 178.-Martes domeftica, or Common Martin. Gefin. quad. 765. Alurov. 332. Jonf. quad. 156.-Martes, Foyna, Martlet, or Martin. Raj. quad. 200.-Martin. Penn. hift. of quad. n. 199. Sm. Buff. iv. 239. pl. lxx-Miarder. Ridinger, klein. thier. t. 85.

Inhabits Britain, Germany, France, and moft parts of the fouth of Europe; and is found even in the warmer parts of Rufia. - Goes about during the night in queft of prey, living on finall 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 female, when young, brings three or four, and, when full grown, as far as feven at a birth. The body and liead are a foot and a half long; the tail ten inches; the body, fides, and legs are covered with hair, which is afh coloured-at the bottom, bright chefnut in the middle, and black at the tips; the throat and breaft are white; the belly deep brown; the tail is dufky and full of hair; the feet are broad, covered at the bottom with thick down, and armed with white claws; the head is brown with a reddith tinge, having broad rounded carez, and lively eyes. It is a moft elegant, lively animal, very gool natured, fportive, and capable of
being tamed; lives in woods, breeding in hollows of trees, and is often, in winter, found in magpies nefts. . The fkin and excrements have a mufky finell.
7. Pine Martin. - 5. Muflela Martes. 5.

The body is of a dark or blackifh chefnut colour, with a yellow breaft and throat. Erxleb. mam. 455. Schreber, iii. 475. t. cxxx.

Muftela, or Weafel, having hair of a cinereous grey or whitifh colour at the roots, and chefnut at the extremities, with a yellow throat. Briff. quad. 179.-Martes fylvefris. Gefn. quad. 766.Pine Martin, Martes abietum. Raj. quad. 200. Penn. hift. of quad. n. 200. Arct. zool. n. 27.-Yellow-breafted Martin. Brit. zool. i. 8 I. Sm. Buff. iv. $245^{\circ}$ pl. lxxiii.-Martes. Aldrov. dig. 33 I.-Marder. Ridinger, wilde thiere. t. 30.
Inhabits the north of Europe, Afia, and America; and is more rarely found in Dritain, France, Germany, and Hungary; and as far as Tonquin and China.-Lives in large woods or forefts, keeping in the day time in the hollows of trees, occupying fquirrels nefts, efpecially for their young, and only goes about by night: It preys on fquirrels, mice, rats, and fmall birds; eats likewife berries, ripe fruit, and honey; and, in winter, goes in queft of pigeons and poultry. It procreàtes in February, and is faid, after nine months, to bring forth feven or eight young ones: The head is floorter, and the legs are fomewhat longer, than in the Common Martin. The fur of this fpecies is far fuperior in finenefs to that of the common kind, and is a prodigious article in commerce: Thofe about Mount Caucafus, with an orange throat, are more efteemed by furriers than the reft.

## 8. Guiana Martin.-Muflela guiancnfis.

Of a dark brown colour, with a white fore-head, and a long narrow ftripe 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 fhoulders; the top of the head is whitifh grey; the neck is brown, interfperfed with afh coloured hairs; the hairs of the body are grey and afh coloured at the roots, brown in the middle, and black and white at their extremities; the under part of the jaw is blackinh brown, which colour extends.under the neck, and vanifhes towards the belly, which is bright brown or chefnut; the legs and feet are covered with fhining reddifl black hair; the tail is more bufly at the root, and is of a bright brown mixed with black,

## 9. Cayenne Martin.-Mufela laniger.

Is covered with woolly hair ; and the tail is long and taper.
Small Guiana Martin. Sm. Buff. iv. 244. pl. 1xxii.-Wool!y Weefel. Penn. hift. of quad. 11. 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 roundVol. I.
ed; the legs are fhort.-The Count de Buffon, 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 fpot behind the eye, feem, from the figure, to be whitifh or grey. Though Mr Pennant makes two diftinct fpecies of this and the American Fitchet, Hift. of quad, n. 194. I am inclined to think that both defcriptions. refer to the fame animal.-T.

Of a dark tawny brown or blackifh colour, with a very white fore-head, and cinereous throat. Schreber, iii. 47.8. t. cxxxvi. Pallas, fpicil. zool. xiv. 54. t. 3. f. 2.
Muftela, or Weafel, of a dark tawny colour, with a grey throat. Briff. quad, 180.-Sobela, Zowbela, or Zibellina. Gêfn. quad. 763. Aldrov. dig. 335. Jonft. quad. 156. J. G. Gmelin, nov. com. Petrop. v. 338. t. 6.-Sable. Sm. Buff: vii. 309. Penn. hift. of quad. n. 201. Arct. zool. n. 30 .

## ß. White Sable.-M. Zibellina alba.

Of a fnowy white colour. Strahlenberg, hift. ruff. 442 . Penn. hiff. of quad. p. 322.
Inhabits the northern parts of Affa and America, Siberia, Kamtfchatka, and the Kurile iflands, and formerly in Lapland; being found in Afia as low as $5^{8^{\circ}}$, and in America even to $40^{\circ}$ of latitude:--This fpecies is much infefted by wild eats: It preys on fmaller animals of the Weafal tribe, fquirrels, 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-afh; it fleeps 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 ha= ving 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 fhorter 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, yellowifh, or fpotted; the mouth is garnifhed with long whikers; the feet are large, with white claws. In fpring, after fhedding the coat, the fur is. fometimes of a tawny caft, and fometimes varies to fnowy whitenefs. The blackeft are reputed the beft, 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 fpots round the neck. The Sable is probably the $\Sigma_{\alpha \theta \varepsilon g a v,}$ or Satherius, of Ariftotle, Hift. an. lib. viii. c. $5 \cdot$; which. he claffes with the animals that are converfant among waters; fuch as the Beaver and Otter.

## 11. American Sable.-M. Zibellina americana:

Of a light tawny colour, with whitifh head and ears.: Penn. hift. of quad. n. 201..f.
Inhabits North America, efpecially in Canada:-Is twenty inches in length, from nofe 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.

The back, belly, legs, and tail, are black; the fides are brown ; the tail is very bufhy,
Fifher Weefel. Penn. hift. of quad. n. 202. Arct. zool. n. 3 r. Lev. muf.
Infabits North Američa, 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 brownifh at the bafe, and black at the ends; the fides are brown; the face, and fides of the neck, are pale brown, or cinereous; the nofe is black, with ftrong, ftif whifkers; the ears are broad, rounded, dulky on the outfides, and edged with white; the feet are very broad, and are covered with hair both above-and below, having five toes before, and four, fometimes five, behind, armed with ftrong, fharp, crooked claws; the tail is full and bufhy, but finaller at the extremity. Though called the Fifher Weafel, it is not amphibious, but preys on all leffer quadrupeds: It has fix fmall fore-teeth in each jaw; fix large tulks in all; four grinders on each fide of the upper jaw, three of which are fharp pointed and the fourth flat; fix grinders on each fide of the lower jaw, the fartheft back being flat, the next three pointed, and the other two having two points. This fpecies fometimes varies in colour:

## 13. Polecat. -7. Mufela Putorius. 7.

Of a blackifh yellow or chocolate colour, with white muzzle and ears. Faun. Suec. 16. Schreber, iii. 48 j. t. cxxxi.

Muftela, or Weafel, having its hair of a whitifh grey colour at the roots and black at the tips, and with a white muzzle. Briff. quad. 186. -Yellowifh-black Weafel, Muftela flavefcente-nigri'cans, with a white muzzle, and yellowifh collar. Syft. nat. ed. vi. 5. n. 3.-Putorius. Gefn. quad. 767. Aldrov. dig. $3^{22}$. fig. 户. 33 . Jonft. quad. 154 . t. 64. Raj. quad. 199. -Fitchet, or Polecat. Penn. hift. of quad. n. 195.-Putois, or Polecat. Sm. Buff. iv. 248. pl. lxxiv. Brit. zool. i. 77:Iltnis. Ridinger, wild. thier. '. 20

Inhăbits moft parts of Europe, and in the temperate climates of Afiatic Kuffia.-Dwells in rocky, ftoney, and gravelly places; about ftables, barns, and dwelling-houfes; in hollow trees, and in thallow burrows, of feveral yards long, terminating under the roots of large trees; fleeps moftly during the day, and goes about in the night in fearch of rabbits, rats, mice, moles, poultry, and other birds, in winter it feeds likewife on fifh and frogs, and is very deftructive to bee-hives. The heid of the Polecat is thicker, the muzzle fharper, and the tail fhorter, than in the Martin, from which animal it chiefly, however, differs in colour. In the delerts of Aifatic Ruffia, Polecats are fometimes found, efpecially in winter, of a white colour ; they are likewife found beyond lake Baikal with white or yellowifh rumps, bounded with black. It is exceedingly fetid, like feveral other fpecies of this genus, efpecially the Martin and Sable, giving out from the anus a mof exceffively fetid vapour, when frightened: The male is moftly of a yellowifh tinge, having' whitifh muzzle, while the muzzle of the female is commonly of a yellowilh dirty white.

Muftela, or Weafel, of a pale yellow colour. Erxleb. man. 465 . Schreber, iii. 488. t. cxxxiii. Muftela viverra, Furo, or Ferret, the male having yellowifh fur, intermixed with long hairs which: are tipped with chefnut colour; the fur of the female being of a whitifh pale yellow colour. Briff. quad. 177.-Nuffela fylveftris, Viverra, Furo, or ICtis. Aldrov. dig. 327 . Jonft. quad. 154. Raj. quad. 198. Gefn. quad. 762 -Ferret. Penn. hift. of quad. n. r98. Brrr. zool. i. 7 8. and ii. 498.—. Furet, or Furet putois. Sm. Duff. iv. 252 . pl. lxxv. and lxxri.

Trhabits Africa. - From thence this animal was brought into Spain, in order to free that country from rabbits, and from Spain the reft of Europe has been fupplied: It is domefticated, 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 degencrate, for which reafon wareners crofs the breed, procuring an intercourfe between a female Ferret and a male Polecat, by leaving the former, when in feafon, near the haunts of the latter: The produce is of a much darker colour than the Ferrct, liaving a great refemblance to the Polecat. The Ferret is much fmaller than the Polecat, the head and body being about fourteen inches long, and the tail five; the head is narrower, the muzzle tharper, and the whole body more lengthened and thinner; the colour likewife differs confiderably; the Ferret being ufually of a very pale yellow, though that circumftance is variable, as in all domefticated animals. It is very fetich

The upper part of the body is of a brownifh black colour, fpotted and ftriped irregularly with obfcure yellow. Pallas, It. i. 453. and Spicel: zool. xiv. 79. t. iv. f. ı. Erxleb. mam. 460. Schreber, iii. 490. t. cxxxii.

Mufteia Peregufna, or Weafel, called Peregufna, by the Ruffians; 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. Guldenfaedt, nov. com. Petrop. xiv. 441. 445.t. 10.-Muftela praecincta, Girdled Weafel, or Perewiafka. Rzaczynfki, hift. nat. Polon. 328. and 222.-Vormela, or Wormlein. Gefn. quad. 7.68.-Sarinatian Weefel. Penn. hift. of: quad. n. ig6.

Inhabits Poland, effeciaily Volhynia, in the deferts of Ruffia between the Volga and Tanais, the mountains of Caucafus, Georgia, and Bucharia.-This is a moft voracious animal, which feeds on Marmots, rats, mice, jerboas, birds, and other fmall animals. It procreates in fpring, and, after eight. weeks, the female, which has eight teats, brings forth from four to eight young ones: It refembles. the Polecat, but has a narrower head, a more lengthened body, a longer tail, and fhorter hair, except on the feet and tail. It lives in holes, fometimes of its own burrowing, but moftly in thofe which have been made by other animals, and is exceedingly fetid. The head and body are about fourteen. inches, and the tail fix inches in length.

## 16. Siberian Weafel:-10. Muftla fibirica. 16.

Of a deep yellow colour, having the foles of the feet exceedingly hairy.
Sibirian Weefel, called Kolonok by the Ruffians. Penn. hift. of quad. n. 197. Pallas, It. ii. 7orin and Spicel. zool. xiv. 89. t. iv. f. 2. Erxleb. mam. 47 I.

Inhabits Siberia.-This animal is nearly of the fame fize with the laft, being about twelve inches long from nofe to rump, and the tail fix: In manners it refembles the Sable, and in general appearance comes nearef 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 reft of the body; the fur is in general long and loofe; the face is black, the noftrils are furrounded with whitifh, and fpotted about the eyes; the throat is fometimes fpotted with white. The chief refidence of this animal is from the Altaic mountains to the river Amur and lake Baikal: It lives moftly in the forefts, but is fo greedy that it will cven venture into the huts of the peafants, to devour their meat and butter.

## 17. Ermine.-11. Muftela Erminea. 10.

The tail is tipt with black. Faun. Suec. I7. Houttuyn, nat. iii. 206. t. 14. f. 5.
Muftela, or Weafel, which is white in winter, being in fummer of a reddifl colour on the upper parts of the body, the belly white, and the point of the tail black. Briff. quad. 176.

Of this fpecies the two following varieties are diftinguifhed 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 reddifh yellow, colour in fummer, becoming the white Ermine of winter in cold. countries.

## a. Stoat.-M. Erminea aefirva.

Has a reddifh tinge, and the tail is tipt with black. Schreber, iii. 495. t. cxxxvii. A.
Rofelet. Sm. Buff. iv. 262. pl. lxxix.-Stoat. Penn. hift. of quad. n. 193. Arct. zool. i. 20.Brit. zool. i. 84 .-Wiefel. Ridinger, jagdb. thier. t. 19.

## ß. White Ermine.- $M$. Erminea byberna.

Of a white colour, with a blackifh tip to the tail. Aldrov. dig. 3 fo. Schreber, iii. 496. t. cxxxvii. B.

Muftela candida, White Weafel, Animal ermineum, or Ermine. Raj. quad. 199.-Hermine, or Ermine. Sm. Buff. iv. 262. pl. lxxvii. f. 2. Penn. hift. of quad.n. 193. в. Beit. zool. 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 fones, on the banks of rivers, in the hollows of trees, and particularly in ferefts, efpecially thofe of beach, preying on fquirrels and lemmings. In manners and food it refembles the Common Weafel, but does not frequent houfes; haunting chiefly in woods and liedges, efpe-. cially fuch as border on brooks or rivulets. In general appearance it comes very near to the Martin, but is fhorter in the body, being fcarcely ten inches long from nofe to rump, and the tail about five and a half; the hair is likewife fhorter and lefs fhining 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 fkin is reckoned valuable, and fells in Siberia from two to three pounds Sterling. a hundred; but in ancient times it was in much greater requeft than now. In fummer, the upper: part of the body is of a pale tawny brown colour; the edges of the ears, and ends of the toes, are-
yellowifh white; the throat, breaft, and belly are white : In winter, in the more temperate regions, it is fometimes.mottled with brown and white; but in more fevere winters becomes entirely white; the farther north, and the more rigorous the climate, the white is the purer ; thofe of Britain generally retain a yellowifh tinge. In Perfia and other more fouthern parts, it is brown the whole year.

## 18. Common Weafel.-12. Mufela vulgaris. it.

The upper parts of the body are of a pale reddif brown, the lower parts white; the tail of the fame colour with the body. Erxleb. mam. 471. Schreber, iii. 498. t. cxxxviii.
Muftela, or Weafel, reddifh above and white below. Briff. quad. ‘75-Common Weafel, Muftela vulgaris. Aldrov. dig. 307. Jonft. quad. 152. t. 64. Gefn. quad. 752.-Weafel, Weefel, Fitchet, Foumart, or Foulimart. Raj. quad. 195.-Whitret, or Whitred. Sibald, Scot. iii. ir.:Common Weefel. Sm. Buff. iv. 257 . pl. lxxvii. f. i. Pern. hift. of quad. n. 192. Aret. zool. n. 25 . Brit. zool. i. 82. $\mathrm{D}^{\circ}$. illuft. tab. ci.-Wiefel. Ridinger, wilde thier. t. 30 .

## R. Snow Weafel.-M. vulgaris nivalis.

Having a white fur, and fearcely any black hairs at the point of the tai!. Syit. nat. eat xii. 69. n. II.

Muftela, or Weafel, having the tail of the fame colour with the body, and appearing as if cut off in the middle. Hellenius, act. Stockh. 1785, trim. 3. n. 9. t. i.-Sno-mus. Faun. Suec. I 8.

Inlabits the temperate and northern parts of Europe, Afia, and America, and as far to the fouth wards as the northern provinces of Perfia, and is faid to be found even in Barbary.-In the more northern parts of Ruflia and Sweden, particularly in Weitbotmia, it becomes white in winter; even in this ftate it is eafily diftinguifhable from the Ermine, being a great deal fimaller; the body and head not exceeding feven inches'leng, and the tail two inches and a haif. It is very deftructive to chickens, birds, and young rabbits; eats fifh, flefh, mice and rats, eggs, and mufhrooms, but no other vegetable; it is very greedy, killing and carrying off great quantities of fimall 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 mach ; preys mottly by night, and is a great enemy to the tribe of triice, entering their burrows, and eating their whole bodies, only leaving their teeth undevoured : It is killed by cats wïth great difficulty ; is very watchful, looking round with great caution, when running about; is faid to be feized with epileptic fits, or convulfions, when much terrified; when tamed is very playful and çunning: 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 reddifh brown, colour ; the under parts are entirely wh:te, 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 itfelf; its motions confift moftly of unequal and precipitant leaps; it runs up the fides of walls, or up trees, with great facility, making at firft a fudden bound feveral feet high, and feizes its prey in the fame manner; it deftroys pigeons, fparrows, ferpents, water-rats, moles, field-mice, quails, partridges, and every other fmall animal it is able to mafter; is very fetid when irritated or frightened, and feems not incommoded even by the moft intolerable finells, as there are inftances of the femalc making her neft and littering her young in exceffively putrid carcaffes. It may
be tamed, and even trained to follow a perfon any where, by gentle treatment combined with proper chaftifement.

> 19. Yellow Weafel.-Mufela 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 defcribed by Mr Pennant from a living feecimen in poffeffion of an animal-merchant in the year 1774. -It is eighteen inches long from nofe to rump; the tail is of the fame length, and covered with long hair; the head is flat, with rounded ears, broad blunt nofe, dulky coloured eyes, white cheeks and chin, and a rich yellow coloured throat.
20. Chilere Wearel.-13. Muftela 2uiqui. 17.

The body is of a dark brown colour; having a wedge flaped muzzle.
Quiqui.. Molina, hift. nat. Chil, lib. iv. 258.
Inhabits Chili.-Lives in burrows under ground ; is of a ferocious difpofition, and preys on murine animals.

Befides thefe fpecies, Dr Gmelin mentions two, that he is uncertain how to arrange, as their characters are not fufficiently marked by the authors who treat of them : ift, The Javan Weafel, or Mufela Favanica, of Seba, i. 77. t. 48. f. 4.; and, 2d, The Sardinian Weafel, or Boccamele of the Sardinians, Cetti, hift. nat. Sardin. i. t. 5 . having the tail tipt with black, and a lengthened body; it follows mankind, lives" on flefh and vegetables; is fond of honey, and frequents the vineyards.

> XVIII. B E A R.-17. URSUS. ェ6:

Has fix cutting teeth in each jaw, which are hollowed on the infide; of thefe in the lower jaw, the two outermoft on each fide are longer than the reft, and are lobbed: Each jaw has one tufk on each fide, with very fmall fecondary teeth at their pofterior bafes, placed more inwards than the principles: In the upper jaw are five, and in the lower jaw fix grinders on each fide, which are placed near the tufks. The: tongue is fmooth: The eyes are provided with a membrana nictitans: The fnout is lengthened *.

[^9]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 fome ufe their fore feet in the manner of hands.

## 1. Common Bear.- I. Urfus Arctos. 1.

Of a blackifh brown colour, with a very fhort tail. Erxleb. mam. 156.
Urfus niger, or Black Bear, with the tail of the fame colour. Briff. quad. 184. Gefn. quad. 14. Aldrov. dig. i17. Jonft. quad. 123.t. 55. Raj. quad. i71. Klein, quad. 82.-Black Bear. Pena. hift. of quad. n. 174.-Bear. Sm. Buff. v. r. pl. c.-Baer. Ridinger, wilde thiere. t. 32.

Of this animal the following varieties are mentioned.
a. Black Bear. - U. Arctos niger.

Of a fmall fize, and entirely black. Sclireber, iii. 502. t, cxl. Arct. zool. n. 19.

Of a brown or ruffy colour. Schreber, iii. 502. t. cxxxix.
Brown Bear of the Alps. Sm. Buff. v. 2. Arct. zool. n. 20.
\%. Grey Bear.-U. Aritos grijeus.
Of a black colour, interfperfed with white hairs. Arç. zool. n. 20. io $^{2}$
8. Variegated Bear.-U. Arctos variegatus.

The bocy is variegated with different colours.

The body is of a white colour,
White Land-Bear. Sm. Buff. v. 1. pl. ci. Aret. zool. n. 20. ys
Inhabits the north of Europe and Afia, and in Arabia, the Alps, Japan, and Ceylon. The Grey and Variegated varieties are found in Iceland; the Black and Brown kinds inhabit the marfhy woods in the north of Europe and Afia; and the Brown Bear is likewife found in the Alps, the Pyrences, Caucaffus, the Carpathian mountains, in Poland, Greece, Paleftine, Egypt, Barbary, Ceylon, India, Japan, China, and Perfia.-The Black Bear lives entirely on roots, berries, and other vegetable fubftances; befides thefe, the Brown devours various kinds of infects, efpecially ants and bees, with their combs, and feeds on the dead carcaffes of fheep, goats, cattle, deer, and horfes, which they even attack and deftroy. In general they blow up the carcaffes of fuch animals as they kill, and hide the remainder of what they cannot devour in the marfhes; they commonly wafl their food; and, when
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 pafs the winter in a ftate 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 froft, and abftain from food during all that period: They go into their winter retreats extremely fat, but, as they eat nothing during that feafon, they are exceffively lean in fpring, and are commonly forced to come out by extreme hunger. They generally walk about with great gravity and compofure, except when attacked or irritated; on which occafion they become very active, and, rifing upright on their hind legs, ftrike with both fore feet; they feldom attack mankind, except when irritated, and on thefe occalions the female obliges her young ones to climb ap trees, if at hand, before 'fhe ventures to fight; they always defeend trees with their hinder parts furemoft, of which they are very careful. Bears are not infefted with fleas; and it is faid that they are frightened by mufic: They ftand upright, naturally, on their hind legs, and fivim with great facility; in confequence of the membrana nictitans, their afpect is cruel, furly, and unpleafant : The thumb, or inner toe, on each foot is fmaller than the reft; the female has four dugs; the fiull is lefs than that of the Lion, though the brain is larger; their tendons are in great requeft among the Laplanders for making thread; their Hefh is reckoned delicious food, efpecially when fat; their gall is exceflively bitter, and is efteemed a valuable medicine in epileptic cafes; and their greafe or fat is 'much valued as a cofmetic, efpecially for caufing the hair to grow.

## 2. Polar Bear.-2. Urjus maritimus. 5.

Of a white colour, with a very fhort tail; and having a longifl neck and head. Erxxleb. mam. 16o. Sclrceber, iii. 513. t. cxli.

Urfus marinus, or Sea Bear. Pallas, It. iii. 69 I. 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. celxxxix.-Polar Bear. Penn. hift. of quad. n. 175. pl. xxxiii. fig. I. Arct. zool. n. 18.Weifie Baer. Ridinger, Baeren. t. 3. Ed. Col. Muf. Weir's Muf.

Inhabits within the Arctic circle, being found chicfly in Greenland, Spitzbergen, about Hudfon's Bay, Nova Zembla, and from the river Ob, in Siberia, to the Jenifei and Lena.- Polar Dears are found in great abundance on the ice-iflands of thefe northern feas, preying on fifhes, feals, and cetaceous animals; they feldom penetrate into the inhabited countries farther fouth, yet are fometimes found in Newfoundland, Iceland, and the more interior parts of northern Ruflia and Siberia, into which they penetrate either from extreme neceffity, or from having loft their way during fogs, and on thefe occafions they are fometimes neceffitated to feed on vegetables. 'The female goes fix or feven months with young, and ufually brings forth two cubs in the month of March. In manners and appearance this fpecies refembles the former; which has, however, a larger head and a thicker muzzle. The flkin of fome individuals of this fpecies is thirteen feet long; the head and neck are long, with fhort round ears, and the nofe is tipt with black; the feet and legs are of vaft fize; the teeth are very large; the fur is long, foft, fhaggy, and generally of a yellowifh white colour: This fpecies feems exVol. I.
tremely fond of human flefh, is very bold and fcarlefs, attacking bands of armed men, and boarding fhips; and even diggs up human carcaffes. It has fometimes terrible combats with the Morfe or Walrus, which is its greateft enemy. It is very impatient of heat, and when brought into the more temperate regions, muit be frequently refrefhed by means of cold water thrown over the body. The Hefh is very white, and is recisoned to refemble mutton.

## 3. American Bear.-3. Urfus americanus. 6.

Of a black colour, the throat and cheeks being of a rufty brown colour. Pallas, Spicel: zool. xiv. 6. n. 26. Penn. hift. of quad. n. 174. $\beta$.

Inlabits the whole of America, except Chili and Patagonia, and is found in Kamtfchatka.-This: fpecies rejects animal food, though preffed by hunger, confining itfelf entirely to vegetables, and is. remarkably grecdy of Maize and Potatoes; Dr Gmelin fays that it feeds on fifh. The head is more lengthened than in the European Bear, the ears are longer, the hair is more finooth and gloffy, blacker and fofter; the whole body is much fmaller; the nofe is longer and more pointed, and of a yellowilh or rufty brown colour. It is very cowardly, and never attacks mankind unlefs when provoked, or in defence of its young; it fometimes bites the natives of Kamtfchatka, when anleep, but never. devours them.

## 4. Sand Bear.-Urfus 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 almoft deftitute of hair, extremely fenfiole of cold, burrows in the ground, and is of a yellowifh white colour: The eyes are fmall; the legs are fhort; the feet are armed with fharp white claws; and the tail is confiderably longer in proportion than in the three former fpecies, which have only a ftump in place of a tail. The place of this animal is uncertain: It is engraven by the ingenious Mr Bewick of Newcafte, on wood, from a drawing of a fpecimen in the Tower of London.

## 5. Common Badger.-4. Urfis Meles. 2.

Has a fhort tail of the fame colour with the body, which is dark afh coloured on the upper parts, and black below; the face is whitin, 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. Syit. nat. ed. vi. 6.-Meles, or Badger, covered with a mixed black and dirty whitifh fur, having the head marked with alternate white and black ftripes. Brif. quad. i83.-Meles, Taxus, Taffus, Blerellus, Jazwiec, Borfuk. Rzac-. zinfki, Polon. 233.-Grey Coati, Short-tailed Coati, Taxus, Meles, Tax. Klein, quad. 73.-Baclger, Blaireau, or Taifon. Sm. Buff.iv. 226. pl. lxvii.-Common Badger. Penn. hift. of quad. n. 179. Brit. zool. i. 64. $\mathrm{D}^{\circ}$. illuft. tab. lii. Weir's Muf.-Tachs. Ridinger, jagd. thier. t. IF. Its Anatomy. E. N. C. d. 2. a. 5. obf. 32. and d. 3. a. 3. obf. 163 .

The tro following varieties are mentioned by authers.

Of a white colour on the upper parts, and yellowifh white below. Brit. quad. is5.

Of a white colour, marked with reddifh yellow and duky fpots. Ridingcr, allerl. thier. t. 24 .

Inhabits Europe and the north of Afia, as far as the northern provinces of Perfia and Chiun, and in Japan. - The White Badger is faid by M. Briffon to have been brought from New York; it has very fmall eyes, and very fhort legs, and is only one foot nine inches !ong, with a tail of nine inches: This variety, or fpecies, is by Mr Bewick fuppofed to be the fame 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 fones, 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 Eeginning 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 prodigioufly fat. During the fevere weather of winter, it remains in a torpid fate in its hole, flceping on a commodious bed made of dried grafs. The Badger is furnifhed with a tranfverfe orifice, about an inch deep, between the tail and anus, which difcharges 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 nictitans, capable of covering the whole ball; the female has fix teats, two on the breaft, and four on the belly; the feet are fhort, and are furnifhed with five claws, thofe on the fore feet being very long and ftraight: 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 fifieen to thirtyfour pounds; it runs very flowly, defends itfelf againf dogs with great rigour, biting very fereiely, and being very tenacious of life. It maty be tamed, if caught young; and the feth, when well fel, makes excellent hams and bacon.

## 6. American Badger.--5. Ur.fus labradorius. 7.

The tail is covered with long dirty yellow hairs, tipped with white, having the end dulky; the throat, breaft, 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. \&. Aret. zool. n. 23.-Carlajou. Sm. Buff. vii. 285. pl. 2. cexl.

Inhabits Labradore, and the country about Hudfon's Bay, in North America.-This animal, which has a very ftrong rcfemblance 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 coiour edged with black; the head is white, with a black line on each fide ruming from the fore-hend, clofe to the inner corner of
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 defcribed from a dried fpecimen, may hare been owing to accident. It is uncertain whether this animal poffeffes the orifice under the tail. In each jaw there are fix fore-teeth, one tulk on each fide of each jaw, and four grinders on. each fide in both ; in all thirty.two.

## 7. Indian Badger.-UTrjus indicus.

Has a black face; the crown of the head and upper parts of the body are white, and the lower parts blic's. Penn. hirf. of quad. n. 180 .

Inhabits India.-This fpecies is defcribed, by Mr Pennant, from a fpecimen in the collection of Mr John Hunter, Surgeon General to the Arny. It is playful, lively, and good natured; feeds on flefh; fleeps rolled up; and climbs with great readinefs: The head is fmall, with a pointed nofe, and a prominent oval rim inftead of ears; the nofe 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 to. grey; the legs, thighs, breaft, belly, fides, and.under part of the tail, are black; it has five toes on each foot, the inner one finaller than the reft, all armed with very long ftraight claws; the hair is fhort and finooth; the head and body are about two feet long; the tail four inches. It refufes any commerce with the Common Dadger. No notice is taken of the orifice near the tail.

## 8. Racoon.-6 Urfus Lotor. 3 .

The tail is furrounded with different coloured rings; and a black band croffes the face, including both eyes. Schreber, iii. 521. t. cxilii.
Urfus cauda elongata, or Long-tailed Bear. Act. Stock. 1747, t. 9. f. I. Houttuyn, nat. ij. 237. t. 15. f. i. Briff. quad. 189.-Mapach. Fernand. anim. ii. i. Nieremb. hift. nat. 175. Jonft. quad. 5. 74.-Coati. Raj. quad. 179. Catefb. Carol. 12 1. Sloan, Jamaic. ii. 329. Worm. Muf. 319. Maior, Mofh. 30.-Racoon. Kalm, It. ii. 228. 327. and iii. 24. Lawfon, Ca:ol. 1.21. Penn. hift. of quad. n. 178. Arct. zool. n. 22. Sm. Buff. v. 46. pl. ciii.-Wilde ziberthartige K:ize. Muller. del. 1:at. ii. 99. t. K. I. f. 2.

Inhabits America, efpecially the northern divifion, and the Wen India iflands.-The Racoon lives in holes of trees, bringing forth two or three young ones in the month of May : It eats eggs, poultry, and fhell-fifh; wafhes its food in water, and ufes the fore paws to carry it to the mouth; it has very delicate fenfations of finell and touch; and a moft tenacious memory, efpecially of injuries; it fleeps commonly from midnight till mid-day ; and is fard to have an averfion at hogs briftles; it climbs with great faciity. The body is cloathed with hair of a grey, or afh colour, at the reots, white in the middle, and tipt with black, which gives the fur the appearance of being fhaded with dufky tranfverfe waved rings; the head is of a dulky colour, with a fliarp black pointed nofe, a black band acrofs the face furrounding both eyes, and croficd with a dulky line from the nofe to the fore-head; the tail is very buhy, and is furrounded with black rings*; is eafily tamed, active, good natured,

[^10]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 ; ufes the fore paws like hands, with which it opens oyfters, and is fometimes caught between the fhells, and held till the tide flows and drowns it ; is very fond of fweet things, and even of frong liquors, with which it fometimes gets very drunk.

## B. White Racoon. - U. Lotor melinus.

Of a cream colour or yellowifh white. Penn. hift. of quad. p. 265. Lever. Muf.
The place and hiftory of this animal is unknown. It is barely mentioned by Mr Pennant, as refembling the Common Racoon in every thing but colour.

## 9. Wolverene. -7. Urfus lufcus. 4.

Has a long tail; the head, back, and belly, are of a reddifr brown; the face black; and the fides of a yellowifh 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 Hudfon's Bay, and:in Canada.-Refembles the Wolf in fize, and the Glutton in the figure of its head ; the hair is long and harfh; the tail is of a chefnut colour, fomewhat 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 fhort, rounded; almoft hid in the harr, and edged with white; the fur on the kead, back, and belly, are reddifh, with black tips; fo as to appear almon black; the fides are yellowih brown, and a band of this colour croffes the back near the tail; there are fome whitifh fpots on the throat and breaft the legs are very ftrong, thick, fhort, and black, having five toes on each foot, not deeply divided, armed with frong fharp claws, whish 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 coarfe hairs, near fix inches in length, of the fame colour with thofe 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 amimal 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 houfes, and fometimes 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 pafting below, faftening on them till they are quite exhaufted..

The body and tail are of a glofy black, or dark brown colour, with a tawny line all down the middle of the back, Schreber, iii. 525 . t. cxliv.

Muftela rufo-fufa, or Reddifh-brown Weafel, with a black lift along the middle of the back. Syft. Nat. ed. xii. 67. Faun. Suec. 14. Houtt. nat. ii. 18g. t. 14. f. 4. Gunner, act. Nidrof. iii. 123. t. 3. f. 5.-Guio. Georgi, it. IGo. Pallas, Spicil. zool. xiv. 25. t. 2. Gefn. quad. 554. Aldror. dig. 7 $_{7}$ 8. Jonf. quad. 131.t. 57 . Scheffer, Lap. 339. Rzacynf. Pol. 218. Klein, quad. 83.t. 5. Zimmermann, Spec. zool. geogr. 309.-Vielfrafs, Roffomaka, Jarf, Jæerien, Fieldfrofs. Genberg, act. Stockh. 1773. 222. t. 7. 8. Bell's trav. i. 235. Pontopid. Norw. ii. 22.-Glutton. Penn. hift. of quad. n. 177. Sm. Buff. vii. 274. pl. ccxl. - The Anatomy. Barthol. Cent. 4. obf. 30.

Inhabits America, Afia, and Europe, in the more northern parts; is rarely found in Poland and Courland; and very rarely in Germany.-Dwells chienty in the mountains, and in large forefts; procreates in January, and brings forth one, two, or three young ones in the month of May; the ferale retiring for this purpofe into the clofeft recefles 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 fifh, cheefe, and almoft every kind of eatable; it never attacks mankind, unlefs forced in its own defence; it defends itfelf againft dogs by its intolerable fetor, which however becomes lefs unfupportable 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, thort, ftrong, and hairy, having five toes on each foot, fome authors fay only four; the tail is horter 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 outcr one on each fide is longer, and ftronger than the reft, its fore fide rifes 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, thofe in the middle are rather fmaller, and the outer ones are larger and thicker than the reft; the tufks are thick, conical, very ftrong, and fomewhat blunt, thofe of the upper jaw being larger than thofe below, ftanding at a diftance from the foretecth, and are furrowed on the outer furface; the lower tufks are placed near the fore-teeth and grinders; there are five grinders on each fide above, and fix below, all knobbed, the firft and laft being very fmall: 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 fhort and very full of hair; the whole body is of a fine gloffy black, watered or damalked like filk, funetimes rarying to brown.

## $\beta$. White Gluton - U. Gulo aibus.

Of a white colour, fometimes tinged with yellow. Penn. hift. of quad. p. 293.
This variety is fometimes found in Kamtfchatka, where the finins are very highly efteemed.

> NIX. OPOSSUM.-18. DIDELPHIS. 17.
> The fore-teech are very fmall and rounded; of thefe there are ten in the upper jaw, with two intermediate ones longer
than the reft; in the lower jaw are eight, with two intermediate broader than the reft, and very fhort: The tufks are long; the grinders knobbed: The tongue is furnifhed with a fringe of pointed papillac. In moft fpecies the female has a pouch or falfe belly, within which the teats are placed. In general, the tail is long, flender, and naked.

This genus is chiefly confined to America, at leait moft of the known fpecics, till lately, were of that country; none have hitherto been difcovered in Europe, or Afia, except one fpecies; and lately fome fpecies have been found in the vaft ifland of New Holland. They moftly 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 fuecies, are prelrenfile; their gait is generally rather flow; they feed on birds, particularly poultry, infects, worms, and vegetables; for the moft part, their feet are completely divided into five toes, feveral of them having a diftinct thunb, on the fore paws, at fome diftance from the other toes: The male penis is moftly very much concealed, and has a divided glans; in many fpecies the females are provided with a kind of purfe, or falfe belly; in fome there are two, or even three, dininct cavities, which can be fhut or opened at pleafure, being provided with two bones for that purpofe, and in this the teats are fituated, and the young ones are kept there after birth as in a neft, hanging perpetually to the nipples, till they grow large enough to run about; even the males of thefe fpecies are faid to be furnifhed with this fingular provifion.

## 1. Amboina Opofium.-1. Didelphis marjupinlis. I.

Has eight teats within the pouch. Schreber, iii. 536. t. cxlv.
Amboina Philander, of a blackifh red brown colour on the back, the belly of a pale yellowith aft colour, and having a duky brown foot over each eye. Brifi. quad. 201. - Philander orientalis maxinus, or Largeft Oriental Plilander. Seba, Muf. i. 6ұ. t. 39. Klein, quad. 59.-Greater Molucca Opoffum. Penn. hift. of quad. n. 182. a.

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 furnifhed with five rows of whikers; at each angle of the mouth are eight long briftes, and five under the throat; the cars are oval, loofe, of a black colour, and tipt with white; the back grinders are knobbed, and the fore ones fingle pointed, the foremoft being very fmall; the lower parts of the legs are black and very fmooth; the tail is as long as the body.
2. Brafilian Opoffum.-2. Didelpbis Pbilander. 2.

Has four teats; the tail is hairy at the bafe, and the ears are pendulous. Schreber, iii. 541.t. cxlvii.

Brafiian Philander, having the fur of a whitihn colour at the roots and blackifh at the tips. Briff. quad. 210.-Tlaquazin, or Tai-ibi of the Brafilians. Seba, Muf. i. 57.t. 35. f. 4.-Famas, orRavale. Gumilla, Orenoqu. iii. 238 .

Inhabits South America.-The body and head are about nine inches in length, and the tail fourteen; the muzzle has fix rows of whiikers ; the orbits are furrounded with a brownifh circle; the legs are whitifh; and the naked part of the tail is whitifh, with brown fpots.

The tail is hairy near the bafe;; over each eye is an oblong white fpot. Sclireber, iii. 537. t. cxlvi. A. B.

Philander fpadicens, of a dark chefnut colour on the back, the belly yellow, and having a yellowifh fpot over each eye. Brif. quad. 207. Seba, Mur. i. 56. 57. t. 36. f. I. 2. 3.-Vulpes major putoria, Larger ftinking Fox, or Acuary, having a round naked tail. Barrere, Fr. equin. 166.Semivulpa. Gefn. quad. 870. Aldrov. dig. 223.-Tlaquatzin. Hernand. Mex. 330.-Tai-ibi, of the Brafilians. Marcgr. Braf. 223.-Carigueia. Marcgr. Brar. 222. Pif. Braf. 323. Tyfon, Phil. Tranf. n. 239. p. 105. Cowper, Phil. Tranf. n. 290. p. 1565.-Opoffum. Catefby, Carol. 120.Sarigue, or Virginian Opoffum. Sm. Buff. v. 404. pl. clviii. clix.-Mollucca Opoffum. Penn. hift..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 whitifh afl colour; the hair on the reft of the body is of a whitifh afh colour, tipt with tawny, and darkeft on the back; the tail is as long as the body, and naked, except near the bafe, 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.

The back is of a dark brown colour, the belly yellowifh, and there is a yellow fpot over each eye. Briff. quad. 200.

Inhabits Ceylon, the Philippine and Molucca iflands.-In Dr Gmelin's edition of the Syftema Naturae, this is made a variety of the preceding fpecies; but the remarkable difference of country forbids that idea: There is a confiderable confufion among naturalifts, refpecting the various fpecies of this genus, to remedy which every exertion has been made, but not with entire fuccefs; the following defriptive account from the Syftema Naturae is there meant as referring to both this and the preceding article.

By means of the tail, which is prelenfile, thefe animals climb trees, and fyring from tree to tree with great facility; but, in other refpects, they are very flow of foot; they may be tamed; the fernale brings four or five young ones at a birth, which fhe keeps with great care in her pouch, or falfe belly ; the voice refembles the grunting of a hog; the length of the head and body is about a foot; the head is longer and fharper than in the Brafilian Opoffum, but fhorter than that of the Amboina fpecies ; the ears are fhort and rounded; the female has five or feven teats; the tail is flhorter than the body, and is hairy at the bafe, the naked part being whitifh.
5. Virginian Opofum.-Didclphis virginiana.

The tail is florter than the body, and hairy at the bafe, the reft is naked and prehenfile; the face is white, with a dufky face round the cyes; the body is thick, clumfy, and blackifh on the back; the fides dufliy; the belly dirty white; the legs and thighs black. Penn. hift. of quad. n. 181. pl. xxxvi. Art. zool n. 24.
Inhabits Virginia, Louifiana, Mexico, Brainl, and Peru-Mf Pennant defiribes and figures this animal from a fpecimen in the Leverian Rufeum: He fuppofes it to be the fame with the Didelphis marfupialis of Linnaeus, but, at the fame time, exprefles his doubt of the identity by a mark of interrogation : Dr Gmelin, on the contrary, quotes this feecies from Mr Pennant as fynonimous with the Didelphis Oponfum, or Sarigue of Eufion and of this edition; there is not, however, any refemblance in the three defcriptions, and I have therefore rentured to disjoin then. $-T$.

From the tip of the nofe to the tail this anmal is twenty inches long, anil the tail twelve; the nofe is long, and fharp pointed, having long fuiff hairs on each fide; the cars are large, rounded, naked, very thin, of a black colour, and cdged with white; the eycs are fmall, black, lively, and furroundal with a dufky face; the face is covered with foft, fhort, white hair; the neck is very flaort, 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 yellowifh white at the bottom, black in the midulc, and whitifl 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 dufly, with white claws, having five toes on each; the great toes on the hind feet are diftinct, and like a thumb; the bafe of the tail is hairy; the reft is prehenfile, and covered with fmall feales, like a fnake, the firft half being black, and the reft white; the body is round, very thick and clumfy, with fhort black legs; the female has a pouch or falfe belly in which the teats are placed, and in which the young take fhelter immediately after birth, faftening fo clofely to the teats that they can hardly be feparated; they are then very fmall, naked, blind, and refemble foetufes; when older, they acquire hair, get their fight, and venture out of the pouch, but return on the leaft alarm. This animal is very futid, yet the flefl, even of the old ones, is very goo.l, and eats like that of a fucking pig.

## 6. Cayopollin.-4. Didelpbis Cajopoliin. 6.

The tail is longer than the body; the belly has no pouch; the eyes are furrounded with a flight black ring. Schreber, iii. 5 i4. t. cxlviii.
African Philander, of a dark chefnut colour on the back, the belly of a yellowifh dirty white, and the tail marked with darts chefnut fyots. Brini. quad. 212.-Cayopollin, with a prechenfile tail. Fernand. nov. hifp. 10.-Male African Mowfe, named Kayopolin. Seba, Muf. i. "49. t. 31. f. 3.-Cayopollin, or Mexican Opoffum. Sin. Buff. v. 438. pl. cxlii. Penn. hift. of quad. n. 185.Cayopollin, f. Animal caudimanum. Nieremb. hift. iat. is 5.
Inhabits the mountains of New Spain. - The muzzle is thicker, and the cass norter and narrower, than thofe of the Didelphis Opoffim, or Sarigue, already defribed, 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 reft naked, but marked with dark chefnut coloured fyots on a whitih ground. Mr Pennant defcribes this fpecies from a fpecimen in the Leverian Mufeum, having large, engular, and tranfpaVol. I.
rent cars; very large whilkers; the face of a dirty white, with a dark line down the middle; the hair on the head, and upper part of the body, afl coloured at the rocts, and decp tawny at the tips; the ${ }^{n}$ and feet clufky, with white claws; the belly of a dull cinereous colour; the tail long and th $\quad \cdots i h$, varied with brown and yellow, hairy for the firft inch, and the reft naked. It lives in trees, in with it brings forth its young; thefe cling clofely to the parent when frightened. Neither.Mr Pennant nor the Count de Buffon fay whether this fpecies has or wants the purfe on the belly.

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\text { 7. Murine Opoffam. - 5. Didelphis murina. } 4 \text {. }
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Inftead of a falfe belly, the female has a fold on each fide, including the teats. Penn. hift. of quad. n. 185.

Moufe-like Opoffum, or Didelphis murina, having fix teats, and the tail hairy at the bafe. Sylt. nat. ed. Gmelin, i. 107. n. 4. Amoen. ac. i. 279. Muf. ad. Fr. ii. 8. Schreber, iii. 545.t. cxlix. American Philander, having the back of a dark chefnut colcur, and the belly of a pale yellow. Brifl: quad. 2II.-Philander, having the teats on the abdomen not included in a purfe; with a very long, round, naked tail, and a long thaped body. Gronov. zooph. i. 9. n. 33.-Scalopes. Seb. Muf. i. 48. t. 3 I. f. 1. 2. - Marmofe, or Murine Opoffum. Sm. Buff. v. 435. pl. cxl, cxli. Penn. hift. 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 loweft row which is white, all fhorter than the head; the back is arched, and it and the top of the head are of a tawny colour; the belly is yellowifh white; the ears are long, broad, naked, thin, and rounded at the ends; the feet have each five toes, with diftinct thumbs, all furnifhed with very fharp claws: The female has fourteen teats, according to the Count de Buffon from infpection, to which the young, fometimes ten at a birth, attach themfelves immediately when brought forth; thefe. are at firft not bigger than fmall beans, and never quit their hold till they have acquired confiderable fize and ftrength. 'This fpecies burrows in the ground, climbs trees, fixes itfelf to the branches by the affiftance of its prehenfile tail, and darts on birds and fmall animals; it likewife eats fruits, grain, and roots, but prefers fifh and crabs. It is very flow, and ftupid in all its actions.

## 8. Guiana Opoffum.-Didelphis guianenfis.

Of a brown colour on the upper parts, and white beneath. Penn. hift. of quad. p. 308.
Inhabits Guiana.-This animal is barely mentioned by Mr Pennant as a variety of the preceding; with which, therefore, we muft prefume that it agrees in appearance.

Has fhort blunt nails on all the thumbs, and on the fingers of the fore paws; thofe on. the hind toes are fmall and fharp pointed.

Didelphis dorfigera, having the tail hairy at its bafe, and longer than the body; the fingers of the fore paws being unarmed. Syft. nat. ed. Gmel. p. 107. n. 5. Schreber, iii. 546. t. cl.-Glis fylveftris.
tris. Merian, infect. furin. 66. t. 66. - Glis fylveftris, Mus fylveftris, f. Sorex fylveftris, from $A$ merica. Seba, Mur. i. 49.t. 31. f. 4. 5. ii. go. t. 84. f. 4.-Surinam Philander, of a tawny red on the back, and whitifh yellow on the belly. Briff, quad. 212.-Surinam Opoffum, or Merian Opoflum. Sm. Buff. viii. 267. Penn. hift. of quad. n. 191.

Inhabits Surinm. - This feecies is about ten inches long, from the nofe 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, flarp pointed, and naked; the head and upper parts of the body are of a yellowifh brown, or reddifh yellow colour, which becomes bright red on the back ; the front, muzzle, belly, and feet, are whitifh yellow ; the orbits are furrounded with a dufky ring; the tail is naked and of a pale red, that of the male having duiky red fpots; the feet refemble thofe of the Ape, having four fingers and a thumb on all the four paws: The young ones grunt like pigs.

## 10. Cayenne Opoffum. -7. Didclphis cancrivora. 7.

The upper jaw, on each fide, is armed with a crooked canine tooth which reaches be. yond the under jaw.
Didelphis cancrivora, or Crab-eater Opoffum, having a fcaly and almoft naked tail, nearly as long as the body; and a diftinct thumb, or great toe, on the hind foot armed with a flat nail. Syft. nat. ed. Gmel. p. 108. n. 7.-. Crab-eater, Crab-dog, or Crabier. Sm. Buff. viii. 279. pl. ccxciii.Koupara, Canis fylveftris major, or Larger wild Dog, commonly called Cancrofus, or Crabier. Barrere, Fr. eqûin. 149. - Cayenne Opoflum. Penn. hift. 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, greyifh, 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 yellowifh white on the fides and belly, deeper yellow on the fhoulders, thighs, neck, breaft, and head, and mixed with brown in fome places; this woolly fur is mixed with long fitff hairs, near three inches in length, which are of a dirty white colour at the roots, and dark brown, almoft black, at their extremities; thefe increale 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 blackinh brown colour, having four crooked toes and a ftraight thumb on each foot, the great toes or thumbs being thick, broad, and diftant; the nails of the thumbs and great toes are flat, but the other toes are armed with fhort crooked claws. This fpecies is very common in Cayenne, frequenting the Savannahs and other marfley 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 occafion it emits a cry, fomewhat 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, depofits them in the hollows of old trees. It may be tamed with great eafe, and fed, like Dogs and Cats, with all kinds of victuals: Its flefh refembles that of a Hare, and is eaten ly the natives of South America.

The tail is taper, hairy and prehenfile at the end. Penn. hift. 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, glofly hairs, of a dark cinereous colour at the roots, and rufy 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 furnifhed with thumbs having flat nails, and the toes have fhort claws: This fpecies lodges among the long grafs, but is little known.

In Governor Philiips voyage to New-South-Wales, p. 148, is a defcription of this animal, or one very nearly allied to it, in the poffeffion of Mr John Hunter of London, fent from New-South-Wales: The countenance refembles that of a Fox, but the manners approach to thofe of the Squirrel; when difpofed to fleep it coils in a round form, but when eating, or on the watch, it fits erect, ufing its fore feet to feed with, or to hold any thing; when irritated it utters a loud harfh noife; and only feeds on vegetables: The fur is long, clofe, thick, and of a mixed brown and greyifh on the back; the belly and neck are yellowifh white; the head and body meafure eighteen inches, and the tail twelve; The muzzle is pointed and garnifhed with long whifkers; the fore paws have five toes armed with claws; the hind paws three toes with claws, and a diftinct thumb or great toe; in each jaw there are two fore-teeth; the tefticles are large and pendulous: The female has a pouch on the belly,

## 12. Short-tailed Opoffum.-S. Didelpbis brachyura. 8.

Of a red colour, with a fhort hairy tail, naked ears, and no pouch. Schreber, iii. 548. t. cli. Pallas, act. Petrop. 1780, ii. 235. t. v.

Philander obfcure-rufus, of a dark red colour on the back, and tawny on the belly, with a fhort thick tail. Brifl. quad. 213.-Philander, without any pouch over the teats, and having a fhort, thick, hairy tail. Gronov. zooph. i. 9. n. 35.-Mus fylveftris femina, from America. Seba, Muf. i. 50. t. 3 I. f. 6.-Short-tailed Opoffium. Penn. hif. 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 bafe, and gradually leffens to the extremity. The fur is exceedingly foft and gloffy, of a dull red colour on the upper parts, and paler red or tawny on the belly, with a beautiful red ftreak along the fides of the head and body. This〔pecies lives in the woods; the female, which has no falfe belly, brings from nine to twelve young at a birth, which adhere to the teats as foon as born. The head refembles that of the Didelphis Cayopollin; the fnout is thorter than that of the Didelphis Opoffim, and thicker than that of the Didelphis murin, with which fpecies 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 fcrotum.

## 13. Oriental Opofium.-9. Didelphis orientalis. 9.

The tail is longer than the body, hairy from its bafe to the middle, the relt naked and prehenfile; the two middle toes of the hind feet are united. Pallas, mifcel. zool. 59Erxleb. man. 29. Schrcber, iii. 55c. t. clii.

Phalanger. Sm. Buff. vii. 174. pl. cexvii. cexviii. Penn. hift. of quad. n. 190.-Coefeoes. Valent. Ind. iii. 272.

Inhabits the Eaft Indian inlands, and perhaps likewife in New Holland.-This animal refenbles 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 nofe, and fhort, hairy ears; the legs are very fhort, and the toes have long, crooked, ftrong claws; the two firft toes of the hind feet are attached together, and the hind paws have diftinct thumbs with flat nails; in the male the upper parts of the body are of a reddifh brown, mixed with ailh 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 yellowifh white: In the upper jaw there are eight cutting teeth, and only two in the lower.

The hind legs are much longer than the fore, and have only three toes on each; the tail is fhort and naked. Sclereber, iii. 55 I. t. cliii. Pallas, act. Petrop. ii. 229. t. ix.
Javan Opoffurn. Penn. hift. of quad, n. 183.-Filander. Le Brun, voy. to E. Ind. Eng. edit. ii. IOI. t. ccxiii.

Inhabits the ifland of Java.-'This animal is about the fize of a Hare, with a narrow Fox-like head, having upright pointed ears, and a brown ftripe paffing through the orbits acrofs the face; the upper jaw has fix fore-tecth, and the lower only two, and there are no tufks in either jaw; the fore legs are very fhort, with five toes on each ; the hind legs are very long, having two very large, ftrong toes, and one very fimall one on the outfide, which is found to confift of two fets of bones, and to have two clofely united flender claws; the belly is furnifhed with a complete pouch for the reception of the young. From the ftructure of the legs, this animal leaps, inftead of walking, in the manner of the Jerboas: They are kept, in Java, along with rabbits, in inclofures, and burrow in the ground.

## 15. Kanguru.-11. Didelphis gigantea. 10.

The tail is long, thick, tapering, and hairy; the hind legs are very long, and furnifhed with three toes; the ears are erect, and the body is very large. Schreber, iii. 552. e. cliv.

Kanguroo, or Kangurul. Cook's voy. iii. 577. t. xx. Hawkefworth, voy. iii. 174. t. 51. Penis hift. of quad. n. 184.-Gigantic Jerboa." Zimmerman, 526.-Macropus giganteus, or Great Kanguroo. Nat. mifc. pl. 33.

Inhabits the weftern fide of New Holland.-The head, neck, and fhoulders of this animal are fimall, 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 fometimes weighs above cighty pounds: The head is long and tapering, the upper lip divided, and the end of the nofe black; the ears are thin, oval, ereet, and covered with fhort hair; there are no tulks in either jaw; in the upper jaw are four broad fore-teeth, ftanding perpendicular to the jaw; the lower jaw is fhorter than the upper, and has only two
long fharp fore-tecth, ftanding directly forwards; each jaw has four grinders on each fide, which are placed far back in the mouth; the belly is large and prominent, but has no pouch; the fore legs are rery fhort and ufelefs for walking, having five toes armed with long, frong, conical claws; the hind legs are almoft 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 ftrong large chaw; the other two, one on each fide, are fmall and diftant from the middle one, have fhort thick claws, and the outer toe has two fmall clofe fet claws, feemingly only one without a narrow infpection: The fcrotum of the male is large and pendulous; the whole fur is afl coloured, fmooth, and fhort; the breaft and belly being confiderably paler. This animal lives among the long grafs, feeding on vegetables, is very timid, and moves by furpriing leaps, with the hind legs, over bufhes feven or eight feet high ; and ufes the fore paws only for diggiigg and carrying its food to the mouth. It is very good eating.

The Kanguru, and the next fpecies, 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 Opoflum.-Didelphis tridactyla.

The tail is long, tapering, and hairy; the hind legs are very long, and are furnifhed with three toes; the ears are rounded, and the body is very fmall.
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 Kanguri; 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 diftance from the foreteeth, are three grinders, the foremoft of which are fharp edged, and have the fides channeled or fluted. The fur is fmooth, and of a uniform dark brown colour ; the breaft and belly being paler than the reft.

## 17. Vulpine Opoffum. - 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 Opoflum. Gov, Phillips voy, to Botany Bay, 150 and plate.
Inhabits New Soutl Wale:- - The head and body meafure twenty-fix inches, and the tail fifteen; the legs are fhort, and of an equal length; the foot is long, and refts in walking as far as the heel; each foot has five toes, all armed with fharp 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 garnifhed with ten or twelve rery long blaçk whifkers, which ftand 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 thofe of the Kanguru; on each fide, in the upper jair, are two finall tufls, but none lelow; there are four grinders on each fide in both jaws. The whole upper parts of the body, and firft quarter of the tail, are of a grifly colour, proceeding from a miature of durky and white hairs; with a reddifh-yellow tinge, chiefly on the head and fhoul-
ders; the reft of the tail is black; all the uider parts of the body are of a tawny buff, which is deepeft on the throat, where the bottom of the hairs is rufty brown.
18. Spotted Opofum.-Didelphis maculua.

The body is black and fpoted with white; the tail is very bufly; and the female is furnifhed with a pouch.
Spotted Opoffum. Gov. Phillips voy. p. r47. and piate.
Inhabits New South Wales.-This animal meafures 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 fpotted with irregular roundilh white patches; the ears are large, erect, open, and pointed; the muzzle is long, pointed, and garnifhed with very long whikers at the nofe; the fore and hind legs, from the wrift and heels, are afh coloured, and almoft naked, having five toes on each, armed with long, fharp, black claws, except the thumb, or great toe, of the hind foot, which is higher up the foot than the reft, and has no claw; the firft inch and half of the tail is covered with fhort hair, with one or two fmall white or grey fpots; the reft, to the end, is very bufly, with long coarfe hairs, difpofed fomewhat like that of a Squirrel. The female has fix teats placed circularly, within a pouch, or falfe belly.

## 19. Fiying Opoflum.-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 meafures twenty inches, from the nofe to the rump, and the tail twenty-two : It is of a gloffy black colour, flightly mixed with grey hairs, with a tawny fpot on each hip; the under parts are white; along the middle of the back is a kind of mane, confifting of coarfer and longer hairs ; the tail is thick at the bafe, where it is of a light colour, and grows gradually fmaller and blacker to the end; in the upper jaw are four fmall fore-teeth, and on each fide two tufks, and five grinders; in the lower jaw, two fore-teeth, no tufks, and five grinders on each fide, placed very far back ; the fore paws have each five toes, armed with claws; the hind feet have four toes armed with claws, and a diftant unarmed thumb; the two firft toes, next the thumb, on the hind feet, are clofely attached together, the next is not quite fo much, and the laft 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.

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Has fix unequal fore-teeth in the upper, and eight in the lower jaw; one tufk on each fide in each jaw; feven grinders on each fide above, and fix below.

The Moles lire entirely below ground, in cylindrical canals of their own digging, by which they go from place to place in queft of worms, which are their principal food; they likewife form circular nefts near the furface of the ground, under flattifh conical mounds or hills, in which they bring forth and rear their young. The boily is thick, with a thick head and lengthened fnout, the upper jaw being much longer than the lower; they have very fhort legs, the fore ones being hardly perceptible, but are furnifhed with very broad palmated paws, and the hind fect are fmall. They have no external ears, and the eyes are fo very finall, and fo completely hid in the fur, as to make it vulgarly believed that they have none.

## 1. European Mole.-1. Talpa europaea. 1.

Has a fhort 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. zool. i. 108. Arct. zool. i. 142. A.
Of this fpecies there are feveral varieties, but the firf, or Black Nole, is the noft common.

The fur is uniformly black.
Erxleb. mam. II4. Schreber, iii. 558. t. clvi. Sm. Buff.iv. 309. pl. lxxxvii. Penn. hift. of quad. n. 349 .

## ß. Variegated Mole.-Talpa curop. variegata.

The fur is variegated with white fpots. Briff. quarl. 205.
Talpa maculata, or Spotted Mole, from Eaft-Friefland. Seba, Muf. i, 68. t. 4 I. f. 4.-Spotted Mole. Edw. glean. ii. 122. t. 268. Weir's Mur.

The fur is uniformly white. Briff. quad. 205. Seba, Muf. i. 5 1. t. 3\%.f. ı. Weir’s Muf.

The fur is of a cinereous colour. Hubfch, Naturf. iii. 98.
Talpa cinerea, or Cinereous Mole, with narrow fore paws. Richter, Abhandl. uber die phry. Befchaff: von Bochmen. Prag. is Drefd. 1786. iv. 82.

The anatomy of tlie Mole is defribed, E. N. C. d. 1. a. 2. obf. $5^{1}$. and d. 2. a. i. obf. 130.-Tts method of digging, Gleditfh, oper. mifecl. iii. n. 5. C. F. Paulin. de Talpa. Francof. 1689. De la Faille, Naturg. des Maulwarfs. Francof. y 778.

Inhabits the whole of Europe, and the more northerly parts of Afia and Africa.-The Mole chiefly frequents moift fields that are expofed to the fun, meadows, and gardens; through thefe it conftructs fubterraneous roads, or galleries, in every direction, in fearch of worms, on which, and the larvae of infests, it feeds, and not at all on vegetables, though it does great damage by loofening the roots of plants : It is mof active in its operations before rain, becaufe then the worms are in motion. The penis of the male is exceedingly long in proportion ; they feem to pair, and propagate in fpring, the female bringing four or five young at a birth, which are placed in nefts made of mofs, leaves, ans dried grafs, under the largeft hillocks of the field; thefe are conftructed with wonderful ingenuity, confifting of an interior hillock, furrounded with a ditch, which communicates with feveral galleries, on purpofe to carry off the moifture, and the neft is covered over with a dome of earth, like the flat arch of an oven. Moles are deftroyed by means of a pafte, compofed of palma-chrifti and white hel lebore, or by flooding the fields which they infeft; though, in the latter cafe, they fometimes efcape by afcending 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 furceptible 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 mufcular, with very fhort fore legs, placed much fidewife; the fore feet are very broad, flat, and oblique, having large palms, with five fhort toes armed with frong claws; the hinder parts are taper, with fimall feet, having likewife five toes; the fkin is exceedingly tough, and is covered with fhort, clofe-fet, velvet-like fur, ufually of a fine black, fometimes fpotted with white, altogether white, or grey. There are none in Ireland; and thofe of Siberia are larger than the com* mon kind.

## 2. American Mole.-Talpa flava.

Has five toes on each foot; a fhort tail; and is of a yellowifh brown colour.
Talpa europaea flava, or Ycllow European Mole. Syft. nat. ed. Gmel. i. p. iro. n. r. i.-Y Yellow Mole. Penn. hift. of quad. n. 349. $\beta$.

Inhabits North America.-This fpecies, or perhaps rather variety, refembles the European, but is larger, being fix inches and a quarter in length, and the tail one: The hair is foft, fllky, and glofiy, of a yellowifh brown colour at the tips, and dark grey at the roots; it is brighteft in colour about the head, and darkeft about the rump; the belly is deep cinereous brown; the feet and tail are white.
3. Crefted Mole.-Talpa crifata.

Has five toes on each foot; a fhort tail ; and the nofe is furrounded with fhort radiated tendrils. Penn. hift. of quad. in. $35^{1}$. pl. xlviii. fig. Is
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. 6g.
Inhabits North America.-Is about three inches and three quarters in length, the tail air inch and three tenths : The nofe is long, and furrounded, at the point, with from ten to fifteen fhort, fimall, pointed, and naked tendrils, or caruncles, forming a ftar:; the body is thick and round, like that of the Common Mole, and is covered with a fine, fhort, compact, and dufky coloured fur, rather longê

VoL. I.
on the fnout; the fore feet are white and fmall, but broad, with five toes; the hind legs faly; the tail is flender, round, and taper ; it has only four fore-teeth in the lower jaw, and four tufks in each jaw. This animal forms fubterraneous paffages in various directions, through uncultivated fields, raifing ridges over them, about two inches ligh, and four in breadth; it feeds on roots, and has great frength in its legs. This fpecies is placed in the Mole genus on the authority of Mr Pennant, and from its having the manners of that tribe, though, in the Syftema Naturae, it is ranked with the Shrew, on account of the number of its teeth.

Has five toes on each foot; the tail is about half the length of the body; and the nofe is furrounded with radiated tendrils. Erxleb. mam. ir 8.

Long-tailed Mole Penn. hift. of quad. n. 352. pl. xlviii. fig. 2. Arct. zool. n. 68.
Inhabits North $\Lambda$ merica.-This fpecies is from four to fix inches long, and the tail two, fometimes three: The fur on the head and body is long, foft, and of a rufty brown colour, but fhort on the tail; the fore feet are broad, naked, and palmated with ftrong fhort claws; the hind feet are fcaly, with a few fhort hairs, and have long flender claws.

## 5. Brown Mole.-Talpa fufca.

Has five toes on each foot; the tail fhort; with two fore-teeth in the upper, and four in the lower jıw. Penn. hift. of quad. n. 355 . Lev. Muf. Aret. zool. n. 7 l .

Sorex aquaticus, or Aquatic Shrew, with palmated feet, the feet and tail being fhort and white. Syft. nat. ed. Gmel. i. p. II2. n. 3. Schreber, iii. $5^{66}$. t. clviii.-Talpa virginiana nigra, or Black Virginian Mole. Scba, 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 lefs than an inch: The nofe is flender, the upper jaw being much longer than the lower; of the four lower fore-teeth the two in the middle are very fimall; it has no tufks; 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 fpecies, though placed in the Syftema Naturae among the Shrews, have the manners and figure of the Mole, and are therefore reftorcd to this genus on the authority of Mr Pen -nant.-T.

## $\therefore \quad$ 6. Red Mole.-3. Talpa rubra. 4.

Has three toes on the fore feet, and four behind; with a fhort tail. Erxleb. mam. rig.
Talpa amcricana 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. 5 I. t. 32. f. 2. Penn. hift. of'quad. n. 354.

Inhabits America.-In the form of its body this animal refembles the common fpecies, but is fomethat larger, and the root of the tail is thicker.
7. Gilded Mole.-4. Talpa aurea. 2.

Has three toes on the fore feet and five behind; without any tail.
Talpa afiatica, or Afiatic Mole, having no tail, with three toes on the fure feet. Syf. nat. e.j. Gmel. i. p. inf. n. 2.-Talpa aurea, or Golden Mole. Schreber, iii. $5^{62}$. t. cliii.-Talpa aurea fibirica, or Siberian Golden Mole, of a greenifh golden colour, with a tail, having three toes ber fore and four behind. Brif. quad. 206.-Talpa verficolor, or Changeable Mole, from Siberia, called Afpalax. Seba, Muf. i. ${ }^{\text {1. t. 32. f. 4.5.-Siberian Mole. Penn. hift. of qual. n. } 350 \text {-Gild- }}$ ed Mole. Sm. Buff. viii. 238.

Inhabits the Cape of Good Hope, according to Pallas.- The finout is floorter than that of the European fpecies, and the nofe is naked; the body and head are about four inches long; the fur on the upper parts of the body is varied with gloffy green and copper colour, having a fine fplendid appearance, as if tiffued with green, golden, and reddifh; the lower parts are of a cinereous brown; the fpace between the tip of the nofe and corner of the mouth is covered with pale brown hair, and a broad whitifh bar points upwards along the fides of the head : In each jaw there are two fharp cutting teeth, with a fharp tufk, contiguous to the fore-teeth on each fide 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 fimall toes, with fmall weak claws; the rump is round.

Very much analogous to this genus, is the divifion of Murine quadrupeds, named Subterraneous, $\left(^{* * * *)}\right.$ or Mole-rats, which are ranged under a different order, on account of their having no tulks.
XXI. S H RE W.-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 cafe, being fhorter than the orhers: On each fide in both jaws are two or more tufks: 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 cor nical fnout, and having very finall eyes; in other circumftances of general figure they refemble the Murine tribe of quadrupeds. They burrow in the ground, fome fpecies !ixing mofty about the fides of waters; and moft of them feed on worms and infects.

Has a very long fnout and no tail. Schreber, iii. 57 8. t. clxi. B.
Pigmy Shrew, S. pygmactis, having a very long finout, five toes on all the feet, and no tail. Laxa mann, Sibir. Brief. 72.-Minnte Shrew. Penn. hift. of quad. n. $343^{\circ}$

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 nagazine of feeds; runs fwiftly, and burrows with great readinefs; bites fiercely, and has a voice fimilar to that of the Common Bat. The head is almoft as large as the whole body, and has a very long flender nofe, which is furrowed underneath, and garnifhed with whinkers reaching as far as the eyes; the ears are fhort, broad, and naked; the eyes very finall, and retractile: The fur is fine, gloffy, and of a grey colour in the upper parts of the body, the lower parts whitifl. The whole body does not weigh above one dram, or the eighth part of an ounce.
2. Mulky Shrew.-4. Sorex mofchatus. 6.

The feet are webbed; the tail is flattened edgewife, broadeft 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 mofchatus, or Mufky Beaver. Syft. nat. ed. xii. i. 79. Faun. Suec. p. ir. n. 28.-Muf. f. Caftor mofchiferus, Mulk Rat, or Beaver, having the tail flattened vertically, and all the toes connected by membranes. Briff. quad. 92.-Mus aquaticus, f. aquatilis, or Water Rat. Cluf. exot. 375. Jonft. quad. I69. t. 73. Aldrov. dig. 447. f. p. 448. J. G. Gmel. nov. com. Petrop. iv. 383 . t. xiii. f. 5.-Long-nofed Beaver. Penn. Syn. of quad. n. 192.-Mufcovy, or Mufk Rat. Raj. quad. 217. Sm. Buff. v. 260. pl. cxxxi.-Mufky Shrew. Penn. hift. of quad. 336.-Bifamraze. S. G. Gmel. It. i. 28. t. 3.4-Defman. Guldenftedt, Naturf. befch. iii. IO7.t. 2.

Inhabits the countries between the Volga and Tanais, from the fiftieth to the fifty-feventh degree of northern latitude:-This animal meafures 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 nofe, which is cartilaginous, and very moveable, being garnifhed with twelve rows of white whilkers; it has no external ears, and very fimall eyes; the body is rather flat-fhaped, and, befides the fkin, is provided with a fanniculus carnofis, or thin mufcle peculiar to the fkin, by which the animal is enabled to fhake it violently; the head and body are of a dufky colour, the belly is a whitifh afh colour; the feet are naked, fcaly on their upper parts, and of a blackifh colour; the tail is of a blackifh or dufky colour; near the root of the tail are feven or eight fmall glandular orifices, of a yellow colour, from which may be expreffed about twenty grains of a yellowifh thick fluid, which has a very penetrating odour of mufk 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 thofe of the Otter, the entrance being below the loweft fall of the water, and the apartment above its higheft rife; it is very flow of Soot; feeds on water flaggs and fifh, and is greedily devoured by Pikes and other ravenous fifh, by: which thefe fometimes acquire fo ftrong a flavour of mufk as to xender them uneatable.

The tail is of a middle length; the body is blackifh on the upper parts, and light afli coloured beneath; the toes are fringed at the edges. Erxleb. mam. 124. Schreber, iii. $5 \mathrm{~S}^{\text {I. }}$. c. clxi..

Mufaraneus, having the upper parts of the body black, and the belly white. Nerret, pin. 167.-- Mufaraigne d'ea, Water Shrew, or Blind Moufe. Sm. Buff. iv. 308. pl. lxxxvi. fig. 2.-Graeber, or the Digger. Pallas.-Water Shrew. Penn. hift. of quad. n. 342. Brir. zooz. illuftr. tab. ciiSorex bicolor. Nat. mifc. pl. $55^{\circ}$

Inhabits Britain, Burgundy, Gernany, Pruflia, and Siberia.-Burrows in the banks of rivers andditches in fenny countries, fivims with great facility, and often under water; it meafures not quite four inches from nofe to rump, the tail being two ; the nofe is long and flender, broaler at the extremity than that of the Fetid Shrew, and is furnifhed with long afh coloured whifkers; the cars are very fmall, and are garnifhed within with a tuft of white hair; the eyes are very fmall and hid in the fur; the legs are longifl, and white, with white feet; there are two fore-teeth in the lower jaw ; three tufks on each fide abore, and two below; four grinders on each fide above, and three below: The voice of this animal refembles the chirp of a Grafshopper. The female has ten teats, and brings forth nine young ones in the fpring.

The tail is of a middle length; the body is dufky; the legs, feet, and tail, are afh coloured.

Murine Shrcw. Penn. hift. of quad. n. 340.
Inhabits the ifland of Java.- Is about the fize of a common Moufe; has a long flender nofe, channelled underneath, and garnifhed with long afh coloured whifkers; the ears are rounded, and almot naked ; each jaw has two fharp, parallel forc-teeth; all the feet have five toes, armed with claws ; the tail is rather fhorter than the body, and lefs hairy.

The tail is of a middle length; the upper parts of the body are brownifh red, and the under parts dirty white. Schreber, iii. 573 . t. cxl.
Mus araneus, Mufaraneus, Shrcw-moufe, Shrew, or Hardy Shrew. Raj. quad. 239. Gefn. quad. 747. Aldrov. dig. 44 I. fig. p. 442. Jonit. quad. 168.t. 66. Agric. An. Subt. 485 . Klein. quad. 57. Kramer, Auft. 317. Briff. quad. 126.-Nabbmus. Faun. Suec. 24.-Mufaraignc, or Shrewmoufe. Sm. Buff. iv. 303. pl. Ixxxvi. fig. i. Brit. zool. i. i12.-Foetid Shrew. Penn. hift. of quad. n. 34 r.

Inhabits the whole of Europe, and the northern parts of Afia, to Kamtfchatka, and as far fouth as the Cafpian.-Lives in old walls, heaps of ftones, and holes in the earth near villages, in dunghills, hay-ricks, ftables, barns, neceffary-houfes, and other out-houfes, efpecially frequenting damp places, and pools of water; feeds on corn, infects, and almoft any filthy thing, being often obferved rooting in ordure with its nofe, like a Hog; it has a very difagrecable odour, of a mufky kind, fo that, though cats deftroy 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 fcarcely exceeds three drams in weight; it runs more flowly than the common Moufe; the teeth refemble thofe of the Water Shrew, already defcribed; the roice is a fhrill whifting: In fpring and fummer,
fummer, the female produces five or fix young at a birth. Great numbers of this fpecies are found dead in the paths every Auguft, without any evident caufe. The ears are fhort, and rounded; the eyes fmall, and almoft hid in the fur ; the nofe long and fiender, the upper jaw being much longer than the under.

## 6. Labradore Shrew.-Sorex arcticus.

The head and upper parts of the body are duky, and the fides of a brownifh ruft colour. Penn. Arct. zool. n. 67.

Inhabits Hudfon's Bay and Labradore. -The nofe is very long and flender; the upper jaw extending far beyond the lower; the eyes are very finall, and almoft hid in the fur ; the ears are fhort. Mr Pennant fuppofes that this fpecies, or variety of the Fetid Shrew, is likewife found in Carolina, as Mr Lawfon, in liis hiftory of that country, p. 125 mentions a Moufe found there which poifons cats.

## ß. Grey Labradore Shrew.-Sorex arcticus cinereus.

Of a duiky grey colour on the upper, and yellowifh white on the under parts of the body. Penn. Arç. zool. i. p. 139.

Two fpecimens of this variety were fent by Mr Graham from Hudfon's Bay at the fame time with the other variety; thefe Grey Shrews were both fmaller 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 thefe, and the dufty fecies, are only varieties of the Fetid Shrew.

## 7. Surinam Shrew.-8. Sorex furinamenfis. 8.

The tail is fcarce half the length of the body; the body is chefnut coloured on the upper, and below of a pale yellowih afh colour.
Inhabits Surinam.-In fize, fhape of the head and fnout, teeth, eyes, and feet, this fpècies refembles the Water Shrew; but the ears are like thofe of the Fetid Shrew: The tail is covered with very fhort, fimooth, clofe fet hair, cinereous on the upper, and whitifh on the under fide; the muzzle, round the mouth, is white.

## 8. Timid Shrew.-9. Sorex pufllus. 9:

The tail is fhort, and has the hair partly fhed towards the fides; the ears are rounded. Erxleb. mam. 122. S. G. Gmelin, It. iii. 499. t. 75. f. I.
Inliabits 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 thofe of the Fetid Shrew, but in other refpects it refembles the Surinam fpecies, though confluerably larger.

Mufaraneus murinus, or Moufe-like Shrew. Marcgr. Braf. 229.—Brafilian Shrert. Sm. Buff. viii. 273. Penn. hift. of quad. n. 339.

Inhabits Brafil.-Is about five inches long, and the tail not quite two inches; the fcrotum is pendulous; the muzzle is pointed, and the teeth very fharp. This animal is by no means afraid of cats; with which it will even play.

The tail is very flender near the root, then fuddenly grows remarkably thick and round, and again tapers to the end. Penn. hift. of quad. n. 344 .
Sorcx exilis, of an exceedingly fmall fize, and having a very thick round tail. Syit. nat. ed. Gmel. i. p. 115. n. II.

Inhabits Siberia about and between the rivers Oby and Jenifei.-This is the fmalleft quadruped hitherto known, fcarcely exceeding half a dram, or the fixteenth part of an ounce, in weight: The nofe is very long and flender; the general fhape and colour refemble the Fetid fpecies, 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. fp. fafc. i. gi.-Mus albus zeylonicus, or White Rat from Ceylon? Briff, quad. 122.-Perfuming Shrew. Penn. hift. of quad. n. 337. Lev. Muf.

Inhabits Java, and the other inlands of the Eaft Indies.-This animal feeds on rice; it is near eight inches long, and the tail three and a half; the nofe is long and flender, the upper jaw being greatly longer than the lower; the upper fore-teeth are fhort, the under ones long, flender, and crooked inwards; the muzzle is garnifhed with long white whifkers; the eyes are fmall; the ears are broad, round, naked, and tranfparent; the fur is fhort, and clofe fet ; the whole body has fo ftrong an odour of mulk as to perfume 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 mexicnus.

The tail is fhort ; 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 nofe to the origin of the tail ; the nofe is fharp; the ears are fmall and rounded ; the eyes are very fmall, and hid in the fur ; it has two long fore-teeth in each jaw; the body is thick, fat, flefhy, and of a reddifh yellow colour; the legs are very fhort, fo that the belly trails on the ground; the toes are all armed.
with long crooked claws: This animal burrows in the ground, and makes fuch numbers of holes that travellers can fcarce tread with fafety; it feeds on roots and feeds; and the flefh is reckoned very good to eat.-The Count de Buffon, on the authority of Fernandez, fays, that it is fo ftupid as not to recognife its hole after having quitted it, and on this account it is obliged continually to dig new holes; but this is impoflible, as the female would never be able to difcover the retreat of her young ones.-T.

The tail is fiender and hairy; the head and upper parts of the body are of a dufky afh colour ; the feet, belly, and teeth white. Penn. hift. of quad. n. 345 .

The tail inclines to a fquare form ; the head and upper parts of the body are of a dufky afh colour; the belly paler; and the fore-teeth brown. Penn. hift. of quad. n. 346.

The tail is taper, flender, and ridged underneath; the head and upper parts of the body are of a dulky afh colour, having a white fpot behind each eye; the belly is whitifh; and the fore.teeth are brown. Penn. hiff. of quad. n. 347 .

## 16. Uniform Shrew.-Sorex unicolor.

The tail is narrowed or compreffed at the bafe; the whole body is of an uniform dufky afh colour. Penn. hift. of quad. n. 348 .

Thefe laff four animals are ranked, by Mr Pennant, as diftinct fpecies of this genus, though I ams apt to fufpect that they are only varieties of the Common Fetid Shrew, or Sorex Araneus. They were all difcovered, by Profeffor Herman, in the neighbourhood of Strafburg; but, as Mr Pennant does not quote the book, it is impofible to afcertain their proper place in fyftem without farther information.-T.

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\text { XXII. URCHIN.-2f. ERINACEUS. } 20 .
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Has two fore-teeth in each jaw; thofe of the upper jaw being diftant from each other, while the lower ftand clofe together: On each fide there are five tufks in the upper jaw, and three on cach fide in the lower: On each fide of both jaws are four grinders. The back and fides are covered with ftrong flarp pointed fpincs. All the feet have five toes.

Has fhort, broad, rounded ears; the nofrils are bordered on each fide with a loofe flap. Faun. Suec. 8. n. 22. Schreber, iii. 580 . t. clxii.

Erinaceus auriculis erectis, or Urchin, with erected ears. Brifi. quad. 128. - Erinaceus parvus noftras, or Small domeftic Urchin. Seba, MIuf. i. 78.t. 49. f. 1. 2.-Echinus terreitris, or Land Urchin. Gefn. quad. 368 . Aldrov. dig. 459. Jont. quad. 171. t. 68.-Echinus terreftris, Erinaceus terreftris, Urchin, or Hedge-hog. Raj. quad. 23I.-Igel. Knorr, del. ii. t. H. f. 3.-Heriflon, or Helge-hog. Sm. Bufti iv. 300. pl. lxxxv.-Sora. Flacourt, voy. Madagaf. 152.-Common Hedgehog. Penn. hif. of quad. n. 355 . t. xlviii. fig. 3. Brit. zool. i. 105. Aret. zool. 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 bufhes, where it buikls a neft of mofs, grafi, or leaves; it hybernates under hedges or thick bufhes, rolled up in a globular form; goes abrould only in the night, and lives on frogs, toals, worms, beetles, may-bugs, grafshoppers, crabs, fnails, fruits, roots, fmall birds, and carrion; digs holes in moffy places; fwims very readily; when terrificd or irritated, it rolls itfelf into a round form, prefenting the points of its fpines on every fide as a defence, and ejecting its urine, which has a difgufting fmell; by thefe means it is invulnerable to dog', polecats, martins, ferrets, or oirds of prey; it fcreams when the feet are pinched, and has a mukky odour. By the Calmucks, this animal is domefticated, and kept in their huts inftead of cats. The flefl 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 breaft and two on the belly, brings forth from three to five young ones about the beginning of fummer ; thefe are at firft entirely white, and the buds of the fpines juft appear through the fkin. This fpecies 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 flin ; the ears are broad, fhort, and hairy; the eyes are fmall, 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 yellowifh afh coloured hair, mixed with white; the fpines are of a whitifh colour at both ends, with a black bar in the middle, and are interfperfed 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 fmaller and farther back than the reft, and all are armed with weak. claws.

## 2. Guiana Urchin.-2. Erinaceus inauris. 2.

## Has no external ears. Brifi. quad. i84.

Erinaceus americanus albus, or White American Urchin. Seba, Muf. i. 78. t. 49. f. B.-Ame-rican Hedge-hog. Bancroft, Guian. 144.-Guiana Hedge-hog. Penn. hift. of quad. n. $35^{8}$.
Infiabits 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 afl coloured fpines, tinged with yellow; the belly, legs, tail, and face, are covered with foft whitifh hair, which becomes chefnut coloured over the eyes; the hinder part and fides of the head are deeper chefnut; the tail is fhort; tlie claws are long and crooked; and the whole length of the animal, from the point of the nofe to the origin of the tail, is about eight inches.

[^11]D d

Has pendulous ears. Briff. quad. 183 .
Hyftrix brachiura, or Short-tailed Porcupine. Syft. nat. ed. x. i. p. 57.-Porcus aculeatus, f. Hyftrix malaccenfis, Malacca Hedge-hog, or Pocupine. Seba, Muf. i. 8 t. t. 5 r. f. i.

Inhabits Afia:-From this fpecies is procured the ftone, called Piedra-del porco, formerly held in high eftimation *. Dr Gmelin feems uncertain whether this animal fhould be confidered as a fpecies of this or of the Porcupine genus; but is difpofed, on the authority of Briffon, to rank it in this place.

## 4. Siberian Urchin.-4. Erinaceus auritus. 4.

Has long oval ears, and the noftrils are crefted at the edges.
Erinaceus auritus, or Long-eared Urchin. Pallas, nov. com. Petrop. xiv. 573. t. 21. f. 4. S. G.
 n. 35 .

Inhabits Eaftern Afiatic Rufila, at the lower parts of the Volga and Ural rivers, and beyond lake Baikal.-In the former of thefe diitricts this fpecies is confiderably fmaller than the European Urchin; but thofe beyond lake Baikal are often much larger: The upper jaw is long and flender, having four rows of whikers 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 fhorter than in the European fpecies, is of a taper form, thick at the origin, annulated, almoft 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 fpecies 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, rells itfelf up when frightened, and has all the manners of the European fpecies.

Has fpines only on the head, neck, tail, and withers. Sm. Buff. vii. 86. pl. ccix.
Erinaceus, having fliortifh ears; the hind part of the head tolerably covered; the tail vers fhort and covered with fpines. Syft. nat. ed. Gmel. i. 117. n. 5. Schreber, iii. 58.3. t. clxiv.Afiatic Hedge-hog. Penn. hift. of quad. n. 357.-Small Madagafar Tcndrac. Someret, It. ii. 146. t. 93 .

Inhabits India and Madagafear. - This fipecies is confiderably fmaller than the Europen Urchin, being farcely fix inches long: The muzzlc is very long, and is garnifned with long whikers; it has

- no fpines but on the head, neck, and withers, the reft of the body being covered with coarfe hair, like logs briftles, of a whitifh colour ; the tail is very flort, and is covered with fpines; the fpincs are white, with a ruft coloured ring in the middle; the legs are very fhort, and all the feet have five toes.

[^12]This fpecies is about the fize of a Common Mole; it wallows in the mirc, and grunts like a Hog; frequents frefh and falt water, burrows in the ground, and lics torpid, during fix months, in its hole; in which time the hair falls of;, and is renewed when the animal goes about again. It is generally very fat, and, though the flefh is reedy and infipid, it is eaten by the natives.

## 6. Tanrec.-6. Erinaceus ccaudatus. 6.

Has no tail ; the muzzle is very long and flender; the back and fides are covered with
fpines. 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 Madagafcar.-This fpecies is confiderably larger than the former, or Tendrac, being nearly as large as a Rabbit, when full grown. It differs likewife from the former, in having the top of the head, the neck, back, rump, and fides entirely covered with fhort fpines, of a yellowifh colour, with a black bar in the middle; the belly is covered with yellowifh hair; the legs and feet are tawny, having five toes on each foot; on the muzzle, and behind the ears, are feveral very long black whifkers; the ears are rounded, and fomewhat longer than thofe of the Tendrac.-In voice, manners, and mode of life, this fpecies agrees with the preceding; and both are confidered by Mr Pennant as being only varieties of the fame fpecies, notwithftanding the very remarkable difference in their fize and defcription. It is neceflary to remark, that the engraver of Buffon's plates, in the Edinburgla. edition, has reverfed the names.-T.

## IV. G L I R E S.

## Have no tufks in either jaw; in both jaws there are two fore-teeth ftanding clofe together, but at a great dittance from the grinders.

## XXIlI. P OR CUPINE.-22. HYSTRIX. 21.

The fore-teeth feem obliquely cut off at the ends: The twe jaws have eight grinders. The fore paws have each four, and the hind feet five, toes. The body is covered with long fpines, intermixed with hair.

## 1. Crefted Porcupine.-1. Hyftrix criftata. .

The top of the head is furnifhed with a long reclined creft of ftiff briftes. Briff. quad. $+25$.
Hyftrix criftata, having four toes on each fore foot, and five on the hind feet, with a creft on the head, and a fhort tail. S. G. Gmel. It. iii. 107. t. 2 I. Sclireber, iv. 599. t. lxvii. Syft. nat. ed. Gmel. i. p. ri8. n. i.-Hyitrix criftata orientalis, or Crefted oriental Porcupine. Seba, Muf. is 79. t. 50 .f. I. Gefin. quad. 563 . Aldrov, dig. 47 r. fig. p. 474. Jonf. quad. i63. t. 68. Raj. quad. 206.-Acanithion criftatus. Klein, quad. 66.-Stachelfchwein. Ridinger, kl. thiere. t. 90. Knorr, delic. ii. t. K. ii. f. 2.- Porcupine. Sm. Duff. vii. 69. pl. ccrv. cevi.-Crefted Porcupine Penn. hift. of quad. n. 253 .
Inhabits the forthern parts of Afia, in Africa, Spain, and Italy; is found in the Sand hills to the fouth-weft of the Cafpian, in Southern Tartary, Ferfia, and Palefine..-The Forcupinc dwelis in large burrows, or holes, of its own digging, which have a fingle cntrance, 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 flhrub; when threatened by an enemy, it rolls iffeif into a round form, prefencing its quills, or fpines, on every fide as a defence: The female brings from two to four young ones at a birth in ipring; and thefe are very eafly tance. This is a harmlefs animal, except to gardens, where it makes great devafation on pot-herbs; in a domefic ftate, when angry, it runs its head into a corner, erects its finines ageint any affaluat, and nakes a grunting or fiomting noife.

Ther an fore diverities between the Porcupines of Italy and thofe of Afia and Africa; the quills of the former are comderabiy thoner, and the creft much fmaller: Thefe differences are particularly
noticed in the plates of Bufion's natural hiftory, though not in the text, fo that they may farly be taken as varieties.

> a. Italian Porcupine.-H. crifata curopaca.

Has florter fpines, and a finaller creft. Sm. Buft. vii. pl. ccv.
B. Indian Porcupine.-H. crifata indica.

Has long fpines, and an ample creft. 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 comprefled laterally, having a fhort, blunt, nofe; the upper lip is deeply divided as far as the noftrils; the eyes are fmall and black; the ears fhort, broad, oval, and fomewhat like thofe of mankind; the legs are fhort and thick; the body is covered with long and ftrong fpines ori quills, which are very fimooth, fharp pointed, and variegated with black and white rings; thefe, and the long briftles on the back of the head, the animal is able to erect and recline at pleafure, by means of a paniculus carnofus, or fubcutaneous mufcular expanfion; between the fpines are a few cinercous or afl colourcd hairs; and the head, belly, and legs, are covered with ftrong briftles of a clufly colour, intermixed with foft hairs. The gall bladder of this animal frequently contains a fpecies of bezoar, formerly much valued. The flefl of the Porcupine is fold in the markets of Italy, and is tolerably good.

## 2. Brafilian Porcupine.-2. IIyfrix prebenflis. 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 fpines. Schreber, iv. 603 . t. clxsiii.

Hyftrix americanus, or American Porcupine, named Cuandu, by the Brafilians, and Ourico cachieno; by the Portuguefe. Marcgr. Braf. 233. Jonft. quad. 60. Raj. quad. 2c8.-Brafilian Porcta pine. Penn. hift. of quad. n. 255 . pl. xli. fig. 1.

Of this fpecies two varieties are mentioned in authors.
P. Smaller Brafiian Porcupine.- Fiyfrix preh. minor.

Of a fmaller 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 cleftitute of fines. Br:a. quad. 129.

Inkabits Mixico and Brafl. - The nofe is fort and blunt, having long white whifters, and a bed of fimall forics on tlee upper lip mater the nofe. The top and futes of the head, back, and fides, the hafe of the tall, and ouffides of the legs and thighs are covered with very fiatp finires, of a white cotour, bared with black at the ends ; thefe are near three inches lung at the hinder part of the back and bafe of the tall ; they adhere cofely to the twin, which has no hair intermixed; as they approach the belly, they become flerter and weaker, wat on the breaft anci belly are converted into dark brown briftes: The fect arc of an ath colour, laving each four long toes, armed with frong black claws, and $t \cdot=$ hind fect have each a large protuberance inftead of a thumb, or inner, fifth toe; the tail is eighteen inches long, flender, and taper; the laft ten inches is almoft naked, having only a few bairs, and is pehenflle; the body and head of the larger variety, from which the defcription here given was taken by Mr Pemant, is about the fame length with the tail ; the fmaller variety is lefs known; all that is faid of it being that it is fmaller, and has a white head,

Buffon confounds thefe two varieties with the following fpecies, but mentions, that in Guiana there are two flpecies, probably the two varieties jut deferibed, one of which weighs from twelve to fifteen French pounds, and the finaller only about fix: They are eaten by the Negroes, who prefer their flefh to that of the Paca, or Spotted Cavy; they climb trees flowly, and affift themfelves with their tails, living on fruits and fmall birds; bite fometimes, but not dangeroufly; fleep during the day ; make a noife with their noftrils as if out of breath, and grunt like a Sow; roll themfelves up into a ball when frightened; and may be tamed.

## 3. Mexican Porcupine.-Hyfrix mexicana.

The tail is long, and prehenfile at the end; the hind feet have only four toes; the fpines are intermixed, and almolt hid, with downy hair, and very long briftles. Penn. hift. of quad. n. 256. Syft. nat. ed. Gmel. i. rig. n. 2. \%.

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 fipines which juft appear through the fur. Briff. quad. 127.-Coendou. Sm. Buff. vii. 76 . pl. cevii.

Inhabits the mountains of Mexico.-This animal is confounded by the Count de Buffon with the two varicties of the former fpecies, which, it would appear, he had never feen; it is likewife by Dr Gmelin made a third variety of the former, and, by miftake, this from Buffon is quoted as the fame with the Leffer Brafilian Porcupine; but, with great propriety, Mr Pennant, who had feen a fpecimen of the greater variety of the former fpecies, has feparated this, which, on his authority, is placed here as a diftinct fpecies. The Mexican Porcupine is of a dufky colour, and the whole body is covered with downy hair and very long briftes; the fpines are varied with white and yellow bars, are three inches long, very flender, aud fcarcely apparent, except on the lower part of the tail, which is thicker and thorter than that of the former fpecies, and from the middle to the extremity is free from fpines. 'The head and body are about eighteen inches long, and the tail nine; but the fpecimen from which Bufion defcribes was mutilated. This feecies lives on fruits during fummer, and is eafily tamed.

## 4. Canadian Porcupine.-3. Hyfrix dorfata. 3.

The tail is of a midjle length, and not prehenfile; the hind feet have five toes; the whole body is covered with long foft fur, intermixed with fpines on the upper part of the head, body, and tail. Penn. hift. of quad. n. 257. Arit. zool. n. 42.

Hyftrix dorfata, haring four toes on the fore and five on the hiid feet, with fpines only on the back. Syft. nat. ed. Gmel. i. ifg. n. 3. Schreber, iv. 605. t. clxix.-Hyftrix hudfonius, or Hudfon's Bay Porcupine, having the fpines hid under the hair, with a fhort thick tail. Brifl: quad. 128.-Hairy American Porcupine. Catefby, Carol. app. 30.-Cavia hudfonis, or Hudfon's Bay Cavy. Klein, quad. 5 I.-Porcupine from Hudfon's Bay. Edw. av. i. 52. t. 52 . Ellis, vor. 42. Clark, voy. i. i77. 19 i.-Urfon, or Canada Porcupine. Sm. Buff. vii. 83. pl. ccriii.

## $\beta$. White Canadian Porcupine - H. dorfata alba.

Of a uniform white colour. Penn. hift. of quad. n. 257. Lev. Muf.
Inhabits North America, as far north as the country about Hudfon's Bay, and Newfoundland.Digs holes under the roots of trees, and even afcends them, living on their fruits and bark, efpecially on the juniper fhrub; it laps water like a Dog, and in winter eats fnow as drink: The whole body, head, legs, and upper part of the tail, are covered with fur of a dark rufty brown colour, confifting of one feries of long foft hairs, and a lower foft coat of down, like the Beaver, interfperfed with fome long, ftiff, ftraggling hairs, tipt with dirty white; intermixed with this, and entirely hid in it, are numbers of ftrong fharp quills, or fpines, on the upper part of the head, back, and tail, near three inches long on the back, fhorter towards the head and fides; thefe are fo fightly attached to the dkin, that, by froaking the animal, they come out fticking to the hands. This animal is nearly as big as a Hare; the tail is about fix inches long, and white underneath; the ears are fhort, and hid in the fur.

## 5. Long-tailed Porcupine.-4. Hyfrix macroura. 4.

Has five toes on all the feet, and a very long tail with jointed fpines. Schreber, iv. 60 ;t. clxx.

Hyftrix orientalis, or Oriental Porcupine, having a very long tail, tufted at the end, and univerfally covered with fpines. Brif. quad. 13I.-Porcus aculeatus filveftris, Hyitrix orientalis fingularis, Wild Hedge-hog, or Singular Oriental Porcupine. Seba, Muf. i. 84. t. 52. f. i. Bont. Jav. 54.-Long-tailed Porcupine. Penn. hift, of quad. n. 254.

Inhabits the iflands of the Indian Ocean.-The body is fhort and firongly made, and is covered with long ftiff hairs, as tharp as needles, which reflect various colours; the tail, which is as long as the body, and tapers to a very flender point, is tufted at the extremity with a bundle of long briftles, of a tranfparent filvery colour, compofed of joints rifing one above the other like grains of rice. The feet are all divided into five toes, one of which, ferving as a thumb, turns backwards to affift in climbing trees. The ears are fhort and naked; the eyes are large and bright.

## ß. Brawny Porcupine.-Hyfrix torofa.

Dr Gmelin fuppofes the animal defcribed, under this name by Merrem, in Lefke's Magaz. zur Naturk. und Oekonomic, 1786, P.ii. 197. 198. may belong to the Long-tailed fpecies, as a variety; but, though he quotes that author, he does nat give any defcription 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 in both jaws. The fore feet have four or five toes; the 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 mofly 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.

## 1. Paca.- I. Gavia Paca. I.

Has hardly any tail; all the feet have five toes ; the fides are marked with rows of grey or pale yellow fpots. Erxleb. mam. 356. Sclireber, iv. 609. t. clxxi.
Mus Paca, or Paca, with a very fhort tail. Syft. nat. ed. xii. i. 81. n. 6 .-Cuniculus Paca, on Paca, having external ears and a fhort tail, covered with coarfe dark brown hair, and marked on the fides with rows of yellowifh white fpots. Briff. quad. I44. n. 4. Gronov. zooph. i. 4. n. 15.Tak, Cuniculus minor paluftris, or Leffer Marfh Rabbit, marked with white.ftreaks. Barrere, Fr. cquin. 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. 22_. Pifo, Ind. 201. Jonft quad. t. 63. Sim. Buff. v. 392. pl. clvii-LLaubba. Bancr. Guian. $7^{66 .-S p o t t e d ~ C a v y . ~ P e n n . ~ h i f t . ~}$ of quad. n. 235 - - Hog-rabbit. Wafer's voy, in Dampier. iii. 4or.

Inhabits Brafil, Guiana, and probably in all the warmer parts of America.-Lives in fenny places near rivers, burrowiug in the ground, and keeping its hole exceectingly clean, to which it has always three diftinct 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 fimall button, and fo extremely fort, as to be hardly apparent, meafuring only two or three twelfth parts of an inch; thie head is large and thick, with a lengthened thick nofe, which is black at the tip; the upper jaw is confitlerably longer than the lower; the mouth is rery fmall, and the upper lip is divided; the noftrils are very large, and the muzzle is garnifhed with long whifiers; the upper jaw has at each fide a fold of the fkin refembling a month; the ears are fhort, broad, roundifh, and covered with a fine and almoft imperceptible down ; the eyes are large, prominent, and brownifh; the eye-brows, temples, and throat, are garnifhed with hairy warts; the twon cutting tecth in each jaw are very long, of great furength, and of a faffron yellow co-
lour; the tongue is narrow, thick, and fomewhat rough; the hind legs are longer than the fore, and reft on the fole of the foot as far as the heel; all the feet have five toes armed with claws, the inner claw being very frort. The fenale has two teats fituated between the hind thighs; and has only a fingle young one at each litter. The whole tapper parts of the body are covered with fhort, coarfe, thinly fcattered hairs, of a duiky, or dark brown, colour, which is deeper on the back; the fides are marked with five rows of white, grey, or yellowifh fpots, almoft running into each other ; the belly, breait, throat, and infides of the legs are of a dirty white.

Entirely of a White colour. De Laet. 484. Penn. hirt. of quad. p. $3^{64} 4$.
This variety inhabits the environs of the river St Francis in South America; and, except in colour: refembles in every thing the animal defcribed above.
2. Akouchy.-2. Cavia Acufchy. 2.

Has a fhort tail ; the upper parts of the body are of an olive colour, the under parts whitifh. Erxleb. mam. 354. Sclreber, iv. Gi2. 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. 6ı. and viii. 269. pl. ccxccii.-Olive Cavy. Penn. hift. of quad. n. $237^{\circ}$
Inhabits Guiana, Cayenne, and Brafil.-Is about the fize of a half grown Rabbit, is eafily tamed, and is reckoned very delicate food. The female brings one, fometimes two, at a litter. This fpecies refembles the following, or Agouti, but is uniformly fmaller, has a tail of fome length, and is of a different colour. It inhabits the woods, living on fruits; abhors water, and fometimes, though raren ly, makes a cry like that of the Reflefs Cavy.

$$
\text { 3. Agouti.-3. Cavia Aguti. } 3 .
$$

Has a very fhort 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 yellowifh. Erxleb. mam. 353. Schreber, iv. 613. t. clxxii.

Of this fecies there are three varieties mentioned in authors, viz.

## a. Leffer Agouti.-C. Aguti cunicularis.

Has a very fhort tail, four toes before, three behind, and a yellowifl belly. Syft. nat. ed. xii. i. 80. n. 2.

Cuniculus Agouti, having external ears and a tail, and covered with coarfe fur of a mixed reddifh and dark brown colour. Brif. quad. 143. Gronoph. zooph. i. 4. n. i4.-Small Indian Coney, or Larger Moufe, of a brown afh colour, with a very fhort tail. Brown, Jamaic. 484.-Mus fylvefs tris americanus, or American wild Moufe, as large as a rabbit, and having the hair and voice of Vol. I. E
a pig. Raj. quad: 226.-Cuniculus vulgatiffimus, or Commoneft Rabbit, called Aguti. Barrere, Fr. equin. 153.-Aguti, Acuti, or Agoutis. Marcgr. Braf. 224. Pifo, Braf. io2. Jonft. quad. t. 63. De Laet, 484. Rochefort, Antill. i. 287. - Long-nofed Rabbit. Wafer, in Dampier's voy. iii. 401.-Long-nofed Cavy. Penn. hift. of quad. n. 236.-Agouti. Sm. Buff. v. 58. pl. cvi.

Inhabits Brafil, Guiana, Cayenne, and other parts of South America, and in the Weft Indian inlands.-This animal is about the fize of a Rabbit.

## B. Larger Agouti.-3. B. C. Aguti leporina.

Has a very flort tail; the upper parts of the body are reddifh, and the under parts white. Erxleb. mam. 355 .
Mus leporinus, or Hare-like Moufe, with a fhort tail; having four toes on the fore, and three on the hind, legs; the belly white. Syft. nat. ed. xii. i. 8o. n. 3.-Cuniculus javenfis, or Javan Coney, having external ears, and a fhort tail; of a reddifh colour mixed with dark brown. Briff. quad. 142.-Java Hare. Catefby, Carol. app. t. I8.-Javan Cavy. Penn. hift. of quad. n. 238.

Inhabits Surinam and the hotter parts of South America.-This variety is as large as a Hare.

## 2. American Agouti.-3. r. G. Aguti americana.

Has a very fhort tail, and is clothed with coarfe reddifh fur.
Cuniculus americanus, or American Coney, having external ears and a fhort tail, covered with coarfe reddifh hair. Briff. quad. 144. SeБа, Muf. i. 67. t. 4 I. f. 2.

Thefe three varieties inhabit South America and the Weft India iflands.-They dwell in hollow trees, or burrow in the ground; they fearch for their food, which is entirely vegetable, during the day, and carry it home with them to their dwellings; when feeding they fit up on their hind legs, and carry their food with the fore paws to the mouth; their pace confifts of leaps; they grow very fat, and are very good eating, their flefh being white and favoury like that of a Rabbit; they breed frequently in the fame year, the female bringing three, four, or five young ones at a birth. The toes are connected at the root by a fhort membrane, being what is called Sub-palmated; the tail is very fhort, almoft naked, and of a conical form.

The firft variety, of which the diftinguifhing defcription is given in the charabter of the fpecies, is about the fize of a Rabbit; the nofe is long, with a divided upper lip; fhort, broad, rounded, ears; and black eyes; the legs are flender, alinoft naked; and of a black colour. The fecond variety has a fmall flender head, with prominent, naked, ears, which are rounded at the extrenity. In the firft, the belly is of a yellow colour, and, in the fecond, 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 fame with the firft variety. They all grunt like pigs, are very voracious, and, when fat, their flefl is white, like that of a Rabbit, but dry. What food they cannot immediately confume they hoard in their retreats, and eat at their leifure. Their pace is hopping, like that of a Hare or Rabbit; they beat the ground, like them, with their feet, when angry; and take fhelter, when purfued, in their holes, or in hollow trees.

Has no tail; the upper parts of the body are of a reddifl afh colour, and the under parts white. Erxleb. mam. 348.
Cuniculus brafilienfis, or Brafilian Coney, having external ears and no tail, of a reddifh afh colour. Brif. quad. 149. n. 8.-Aperea, of the Brafilians, called Veld Ratte, d'Ratte, or Bofch Ratte, by the Dutch. Marcgr. Braf. 223. Pifo, Braf. ro3. Raj. quad. 206. Jonft. quad. t. 63.-Aperea. Sin. 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 flefh is very good eating, and refembles that of the Rabbit, but is fuperior in flavour. The head and body are about a foot long; the fore feet are black, and nakerl, and the toes have fhort fimall claws; of the three toes on the hind feet, the middle one is longer than the reft.

## ß. Black Aperea.-Cav. Aperen nigra.

Of a black colour mottled with tawny.

## Rock Cavy. Penn. hift. of quad. n. 233.

This animal, as defcribed by Mr Pennant, is exactly fimilar, in every refpect, 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 thefe writers: It refembles the Rabbit and the Mole, has fmall ears, carried in a flatly reclined pofition, and no tail. Of this animal there are many varieties, with refpect to colour: Some are entirely white; others entirely black; fome totally red; fome fpotted with black and white; and others fpotted with red and white. They eat herbage, and their flefh refembles that of our beft Rabbits in tafte and flavour ; they are eafily tamed, and never defile their place of abode. Thefe animals, whether mere varieties of the fpecies in queftion, or diw ftinct fpecies of the Cavy genus, are found in various parts of the Weft Indian iflands, and on the continent of America. Hift. de St Domingue, par le P. Charlev. i. 35. Hift. des voy. par Duperifier de Montfraizier, 343. Garcilaffo, Hift. des Incas. ii. 252.

## 5. Cobaya.-5. Cavia Cobaya. 5.

Has no tail; the whole body is white, ufually variegated with irregular orange and black blotches. Schreber, iv. 6 r 7. t. clxxiii.

Mus Porcellus, Pig-like Moufe, or Guinea Pig, having four toes on the fore and three on the hind feet; with no tail. Syft. nat. ed. xii. 79. n. 1. Muf. ad. Fr. 9. Amoen. acad. iv. rgo. t. 2. It. Weftgoth. 224.-Cuniculus indicus ecaudatus, or Tailleis Indian Coney, having external ears, of $a$ : white or red colour, or variegated with both. Briff. quad. 147. n. 7. Gronov. zooph. i. 4 . 13. 16. Nieremb. hift. nat. ェóo. Aldrov. dig. 390 . f. p. 39 r. Jonit. quad. 162. t. 63.6 .-Cunisulus indicus, f. C. guineenfis, American, or Guinea Coney, having the hair and voice of a pig,
called Cavia Cobaya by the Brafilians. Marcgr. Braf. 224. Pifo, Braf. 102. Pallas, fpicil. zool. ij. 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 ftate, are not mentioned by authors; in a domeftic fate in Europe, they are very reflefs, grunting continually, and running about in their apartment; they feed on bread, grain, fruits, and vegetables of all kinds, preferring parfley; eat frequently, and little at a time, in a haffy manner; Buffon fays 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 refembles the chirp of a bird, and when hurt, they emit a fharp cry; they are extremely delicate, and impatient of cold or moifture ; of tame and gentle, but ftupid, difpofitions; the female breeds at two. months old, bringing from four or five to ten or twelve young ones at a birth, though fhe has only two teats, and breeds very often during the year, as fhe goes but three weeks with young, and takes the male twelve or fifteen days after littering. This fpecies feldom exceeds feven. inches in length; it is variable in colour, as are almoft all domefticated animals; the hair is harfh, and is fomewhat longer on the neck than on the reft of the body; the body is thick and fhort, with a very flort neck, fhort, broad, naked eass, and large, prominent, brownifin eyes.

Has hardly any tail; the fides of the nofe are garnifhed with tufts of curly hair and long numerous whifkers. Penn. hift. of quad. n. 234. pl. xxxix.

Hare of Patagonia. Narborough, voy. 33. Byron, voy. 18.
Inhabits the country about Port Defire in Patagonia.-This fpecies is of confiderable fize, fometimes weighing twenty-fix pounds: The ears are long and much dilated at the bottom; the upper lip is divided; each fide of the nofe is garnifhed with a curly tuft of hair, and with numerous long whikers; the tip of the nofe is black; the face, back, and fore parts of the legs, are of an afh colour, mixed with rufty brown; the breaft and fides are tawny, the rump is black; the belly is of a dirty white, and there is a white patch on the outfide of each thigh; the legs are very long, having four toes before and three behind, armed with long, ftraight, black claws; the tail is oniy a fhort naked ftump. This animal has the fame manners with the reft of the genus; it fits on its hind legs, burrows in the. ground, and feeds on vegetables. The flefh is very white, and has an exceilent flavour.

## 7. Capibara.-6. Cavia Capybara. б.

Has no tail; the hind feet have each three toes, which are connected by a web. Schreber, iv. 620. t. clxxiv.
Sus hydrochaeris, having three toes on the hind feet, and no tail. Syft. nat. ed. xii. 103.-Sus maximus paluftris, or Largeft marß Hog, called Cabiai, or Cabionara, by the natives. Barrere, Freequin. 160... Hydrochoerus. Brifi. quad. 1 17.-Cavia Capybara. Pallas, fpic. zool. ii. 18.:-Capybara, of the Brafilians. Marcgr. Braf. 230. Pifo, Braf. 99. Jonft. quad. t. 60. Raj. quad. 126.Capivard, Froger, voy. 123.-River-hog. Wafer, in Dampiev's voy. iii. 400.-Cabiai. Sm. Buff:
vii. 64. pl. cciv. - Thick-nofed Tapir. Penn. Syn. 83. n. 61.-Cavy Capibara. Penn. hift. of quad. 21. 23 I.

Inhabits the eaftern fide of South America, from the Ifthmus of Darien to Brafil 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 fifh at night with great dexterity, and brings them on thore to eat them, which it does fitting on its hind legs, and holding its food in the fore paws like an ape; it likewife feeds on fruits and vegetables, efpecially the fugar cane, feeding only in the night, and does vaft mifchief in gardens: The Capibara keeps together in large herds, making a great noife, like the braying of affes; grows very fat, and the flefl 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 fmall, erect, rounded, naked ears, and large black eyes; the upper jaw is much longer than the under, with black, roundifh noftrils, a divided upper lip, and the nofe is garnifhed with numerous black whifkers; in each jaw are two large ftrong fore-teeth, and eight grinders, which have the appearance of three fmall 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 inftead of claws; the neck is fhort and thick; the hair is fhort, rough, and harfh, like briftes, being longeft on the back, and moft of them: are yellowifh in the middle and black at both ends,
XXV. BEAVER.-24. CASTOR. 23 :

Has two very ftrong cutting teeth in each jaw ; and four grinders on each fide in both jaws. The tail is long, flattened, and fcaly. The fkeleton has perfeet clavicles, or col lar bones. All the feet have five toes.

The tail is broad, flat, almof oval, has no hair, and is covered with fcales.. Muf. ad; Fr. i. 9 . Schreber, iv. 623 . t. clxxv.

Caftor caftaneus, or Chefnut Beaver, with a flattened tail. Briff. quad. 333. Gefn. quad. 309. D'. aquat. 185. Rondel. aquat. 236. Aldrov. dig. 276. Jonft. quad. 147.t. 68. Raj. quad. 209.Kafrag. Arift. hift. an. viii. c. 5. Oppian, i. 398.-Fiber. Plin. viii. c. 30. Agric. an. fubt. 482. Belon. aquat. 25.-Bobr. Rzaczinfki, 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. 25 1, Arti. zool. n. 40.

## B. White Beaver.-C. Fiber albus.

## 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 moftly on the bark and boughs of trees, which they lay up in ftore, as winter provifion, and, in fummer, on leaves and fruits, fometimes on crabs and craw-fifh, but they are not fond of fifh : The trees which they chiefly prefer are Saffafras, Afh, Sreet-gum, Service, Willow, Poplar, and Magnolia, and the roots of Flag, and other aquatic plants. They walk flowly, but fwim with great dexterity, and remain in their habitations during the day, fleep with great foundnefs, and are remarkably cleanly; their difpofitions are exceedingly mild and gentle, and, when caught young, are very eafly tamed: They pair, or form into monogamous focietics of one male and one female, in the winter featon; the commerce of the fexes beirg in an exect pofture : The female has four teats, goes four months with young, and brings two, feldom three, and very rarely four, at a litter.
'The head and body meafure 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 neareft the body is covered with hair, the reft is entirely naked of hair, and is covered with fcales : All the feet have five toes; the fore foot is fmall, and its toes are divided, but the hind foot is large, and all its toes are connected by a web, or memprane; the head is thick and pyramidal, ending in a blunt nofe; the ears are fhort and hid in the fur; the neck thick and fhort; the body is ftrongly made, and highly arched in the back ; the body is covered with a double coat of fur, one of which is rery foft, downy, and of an afh colour ; the other is longer, ftraight, coarfer, and of a chefnut 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 fometimes entirely black; fometimes of an uniform white colour, fometimes white fpotted with afh colour, or white interfperfed with redlifh hairs; very rarely yellowifh.

The falivary glands of this quadruped are very large, and, befides thefe, it is provided with other glands at the right fide of the upper orifice of the fomach, which fecrete a large quantity of fluid into the ftomach through eighteen diftinct excretory orifices. Near the anus and external parts, are placed two large glands, having a kind of cellular follicles, or fpongy excretories, which pour out a febaceo:s matter of a peculiar heavy odour: This is the medicinal fubftance named Caftor, of which each individual, boih male and female, ufually contans about two ounces: That produced by the Deavers of Ruffa is in much higher eftecm than the American, and fells for a much greater price. For the anatomy of this animal, may be confulted, Wepfer, Eph. Nat. Cur. d. i. a. 2. obf. 25 1. Sarrafin, act. Parif. i 704 . p. 48. A气. Petrop. ii. 415 .

So far Dr Gmelin; the fingular ingenuity of this quadruped will excufe a farther digreffion than could poffibly be allowed, in general, in a work of this nature, but the fubject is extremely curious, and, were it not well vouched, might pafs for fable. As the peculiar manners of the Beaver require extenfive forefts and fequefiered waters, they are only found in large numbers in the thinly peopled waftes of North America, and in the north-eaftern extremity of Afiatic Ruffia, efpecially about the Konda, apd other rivers which flow into the Oby. They there aflociate together for carrying on their wonderful operations, in which they furpafs very far the inftinct and ingenuity of all other quadrupeds. They begin to affemble, in June or July, from all quarters of the country, till they form a troop of two or three hundec! individuals, near the banks of fome river or brook: If the water they have
chofen be broad, and never rifes above its ordinary level, as in lakes, they make no dam or bank; but, as rivers and brooks are fubject to rife and fall, they build a bank to form a pond, or piece of water, which fhall always remain at the fame height : This embankment traverfes the river, from ficle to fide, like a fluice, and is often from eighty to a hundred feet long, by ten or twelve thick at the bafe. They generally choofe a fhallow part of the river for this purpofe, 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 direstion, 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 beft fitted for their purpofe; 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 finaller trees of various fizes, from that of a man's leg to the thicknefs of the thigh; thefe they drefs and cut into proper lengths for ftakes, 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 thefe fakes upright in the line of the embankment, as piles to fupport the weight ${ }_{2}$ while others, diving to the bottom of the water, fcrape holes to receive their lower ends: Thefe piles are interwoven with the fmaller branches to add to the general ftrength. This wooden frame is then filled up with earth, which they carry in their mouths, and with their fore feet, to the fpot, 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 thofe above, which have to fupport 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 aftonifhing labours, they complete their folid embankment, which is ten or twelve feet thick at the bafe, 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 fhallow gaps, to allow the furface water to efcape; and they contract or enlarge thefe according to the quantity of water in the river.

Having completed the embankment, their next operation is to conftruct cabins or houfes, which they perform with the fame wonderful ingenuity by which their dam was accomplifhed : Thefe 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 houfes are either round or oval, being conftructed, like the dam, of piles wattled with branches, and filled up with ftones and prepared earth ; the walls, which are two feet thick, rife perpendicular for feveral feet, and are then regularly arched, like the top of an oven. Sometimes the houfes confift only of one frorey, fometimes of three or four; and they are of various fizes, 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 provifion, kept conftantly under water. The infides of their houfes are neatly plaftered with mortar, fpread and beaten firmly with their tails, and each individual forms its bed of mofs, or of the tender twigs of box or fir.
The females bring forth about the end of winter, and continue in the cabins, to nurfe and protect. their young, for fome weeks, and then go abroad into the woods: The males leave the cabins as foon as fpring commences, and, during fummer, they only make occafional vifits to their winter refidence. Should no accident happen to their embankment, or houfes, they continue difperfed through the whole fummer, and affemble again in autumn, to repair any inconfiderable breaches, and to lay in their winter ftores. If their dam or cabins have peen deftroyed, they collect their whole force early,
and fet about the neceffary repairs, or new buildings, with the fame union, and appearance of intelleet, as at their firit confruction,

## 2. Terrier Beaver.-Cafor Fiber Jolitarius.

Befides thefe affociated Beavers, there are others which, even in the fame climates, live folitary in holes like Badgers; thefe are called Terriers, or Terrier Beavers, from their digging in the ground; they are eafily diftinguifhed from the reft by the dirtinefs and ragged appearance of their coat, which is torn by rubbing on the earth of their holes. The Solitary Beavers are fuch as have either been deprived of a fufficient number of companions to carry on the labours of an eftablifhment, by the defruction of their village; or they live in countries where mankind fo much abound as to prevent the poffibility of their finding fufficient quiet for carrying on their operations; fome authors fay, that part of them have been banifhed 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 waft forefts, while the folitary Beavers, befides being found in the fame countries, are widely fpread over many places where, at leaft in modern days, no aflociations take place. The folitary Beaver was well known to the ancients, in the neighbourhood of the Black Sea, and was called Canis ponticus, bat 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 fale of the fine downy fur, of which the fineft hats are made, and fome other articles of manufacture. Above fifty-four thoufand of them have been fold by the Hudfon's Bay Company at one fale, befides thofe that are imported from other parts of North America, Thofe of a black colour are preferred, and fuch as are taken during winter, efpecially if they have been worn for fome time by the Indians, by which the long hairs fall off, leaving the fine downy fur perfecty free, and betier fitted for every purpofe of manufacture.

## 2. Chilefe Beaver.-2. Cafor buidobrius. 2.

The tail is comproffed fidewife, broader in the middle, pointed, and hairy; the fore feet have the toes flirted with membrane, and the hind feet are webbed. Molina, hift. nat. Chil. 253 .
Inhabits Chili-- Frequents the deepeft parts of the lakes and rivers; is a fierce animal, which lives oa fith and crabs, and is capable of faying a long while under water; it has no caftor glands, neither does it imitate the wonderful architecture of the Common Beaver. The body of this fpecies, from the tip of the nofe to the rump, is about three feet long; the head is of a fquared figure, with a blunt frout, fmall eyes, and fhort rounded ears; the fur is compofed of two orders of hairs, like that of the Beater, the undermoft, or down, being much finer than that of the Rabbit, and is held in great eftimation by the furriers; the upper parts of the body are afh coloured, and the lower parts whitifi: The female brings two or three young ones each litter. - Perhaps this animal belongs rather to the $r$ rebe of Otters; but we muft wait for farther information before it can be defcribed with fufnecient accuracy to afcertain its placc in fyfem.-1.

## XXVI. MURINE QUADRUPEDS.-25. MUS, 24.

The upper fore-teeth are wedge-fhaped: In general there are threc, feldom two, grinders on each fide of each jaw. Is provided with complete clavicles, or collar bones.

The animals of this genas are in general very fwift, and climb trees or walls with great readinefs ; and fome of them fwim very well. They montly dwell in holes, fome of them dinging burrows in the ground, while others fatisfy themfelves with the fhelter of chinks in rocks or walls, or under. frones, or any concealment that occurs by chance. They generally keep in their retreats all day, and go out during the night in queft of food, which is chiefly vegetables of different kinds; and, when feeding, they fit up, and carry their food to the mouth in their fore paws. The fumales have moftly eight ceats, and breed Ceveral times in the year, having numerous litters each time. The ears are moftly flort and rounded; and, in general, the fore paws have four toes, with a warty fubfance, or callofity, in place of the thumb or fifth toe. Several of the fpecies emigrateat particular feafons of the year.

The word $M$ Ioufe, in the Englifh language, being exclufively appropriated to fome of the fpecies of this genus, and Rat, which is employed by Mr Pennant as the generic term; being in the fame predicament, it was judged better to ufe 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 feveral fections, to which, befides a kind of fubgeneric character, collective rames have been affigned, which, it is hoped, will be found very convenient for diftinguifhing the fpecies of this very numerous genus.-T.

## * BEA VER-RATS.-MYOCASTORES.

The tails of this divifion are flattened laterally at the ends.

## 1. Webbed Beaver-Rat.- 1. M. Myocafor Coypus. 1.

The tail is thick, hairy, of a moderate length, and fomewhat flatened; the hind feet are webbed. Molina, hift. nat. Chil. $\mathbf{2}_{55}$.

Inhabits Chili.-Frequents the water, and has a frrong refemblance, both in colour and fhape, to the Otter; but, in the number and arrangement of its teeth, it refembles the Murine animals, having only two grinders on each fide of the fore-teeth in each jaw. All the feet have five toes. The female brings five or fix young ones at each litter.

## 2. Mufqualh.-2. M. Miyocafor zibethicus. 2.

The tail is long, flattened, and fharp pointed ; the feet are not webbed. Schreber, iv. 638. t. clxxvi.

- Vol. I.

Caftor zibethicus, or Civet Beaver. Syft. nat. ed. xii. i. 79.-Mus mofchiferus canadenfis, Canadian Mufk Rat, or Muf: Beaver, having the tail flattened fidewife, and all the toes feparate. Briff. quad. 136.-Ondatra, or Canadian Mufk Rat. Śm. Buff. v. 260. pl. cxxx.-Rat mûqué. Sarrafin, act. Parif. ${ }_{17} 25$, p. 323. to i1. f. I. 2.-Charlev. nouv. Fr. v. ${ }^{57}$. Lefcarbot, nouv. Fr. 350.-Defmans Rotter. Kalm. It. iii. 19.-Muik Beaver. Penn. hift. of quad. n. 252. Arct. zool. n. 4 I. - Mufquafh. Joffelyn, voy. to New Engl. 86.-Muffafcus. Smith, Virginia. 27.-Mufk Rat. Lawfon, Carolina. 120. Lever. Muf.

Inhabits North America.-This animal dwells near the fides of ftagnant waters, where it builds fmall round huts, of herbs and rceds cemented together with clay, and covered with a dome or arched roof, having feveral pipes or galleries paffing out at the lower part, through which it can go in queft of food. So far its manners refemble thofe of the Beavers; but its labours are greatly lefs. ingenious, and it does not lay up frores of provifions for winter. It feeds chiefly on herbs and fruits in fummer, and in winter moftly on roots, efpecially thofe of the Acorus and Nymphaea, or Sweetfcented flag and Water lilly; and it fometimes feeds on fhell-fifh, efpecially concs, concbae. 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 unfteady. The nofe is thick and blunt, having large eyes, and fhort ears almoft hid in the fur; the toes of the hind feet, inftead of webs, are fringed on each fide with frong white hairs, which are clofely fet; the tail is compreffed fidewife, very thin at the edges, and is covered with fmall fcales intermixed with a ferv feattered 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 reddifh 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 fmelling ffrongly of mufk, efpecially in fummer. In the general form of the body and flat fcaly tail this animal refembles the Beaver, with which its marners and economy have likewife a very friking coincidence; in fize, however, and length of tail, it comes nearer to the Brown Rat; but in its general appearance, and in the fhort hairy ears, it refembles the Water Rat.

## ** RATSANDMICE-MURES.

## Having round tails.

Thefe Dr Gmelin feparates into two divifions, difinguifhed from each other by the circumftance: of their tails being naked or lairy. The former he names $M y 0 f u r i$, and the latter Cuniculariis.

## $\dagger$ Having naked round tails.-Myofuri.

## 1. Piloris.—3. Mus Pilorides. 3.

Has a cylindrical tail which is blunt at the end, and covered with fcales.
Of this there are two varieties mentioned in authors.

## a. White Piloris.-M. Pilorides albidus.

The body is of an uniform whitifh colour. Pallas, glir. 9ir n. $3^{8 .}$
Mus albus zeylonicus, or White Ceylon Moufe, with a very long tail. Briff: quad. ed. Bazt. 122. n. 8.

## $\beta$. Black Piloris.-M. Pilorides fulvus.

The upper parts of the body are black or tawn ; the under parts white. Penn. hirt. of quad. n. 240.
Caftor, or Beaver, laving a fmall round tail. Brown's Jamaica, $48 \ddagger$ - Piloris, or Rat mufqué. Rochefort, Antil. I40. Du'Tcrtre, hift. gen. des Antilles, ii. 302. Sm. Buff. v. 261.—Munk Cary. Penn. fynepf. of quad. no 183 .

The former variety of this fpecies inhabits Ceylon, and the latter the Weft India iflands.-They both burrow in the ground, fometimes infeft houfes like the Rat, and have a ftrong flavour of nuff. They are nearly of the fame fize with a Rabbit, and the tail is about four inches long; the fore feet have four toes, with an excrefcence in place of the inner toe, or thumb, and the hind feet lave five toes ; the cars are large and naked.

## 2. Caraco.-4. Mus Caraco. 4.

The tail is long, fcaly, and fomewhat blunt ; the body of a brown-grey colour ; and the hind feet very flightly webbed. Pallas, glir. gi.n. 39. Nov. fp. fafc. i. 335. t. xxiii. Schreber, iv. 643. t. clxxvii.

Mus caraco. Penn. hift, of quad. n. 299. 阝.
Inhabits the eaftern parts of Siberia, and probably Chinefe Tartazy and the northern provinces of China.-Burrows, like the Rabbit, near the banks of rivers, fwims remarkably well, and even infefts houfes. The body and head are fix inches in length, and the tail rather more than four inches and a half: The whole body weighs fix or feven ounces: The head is long and narrow, laving the eyes placed very near the ears; the fore fect have four toes, and an exceefcence in place of a thumb, and the hind feet have each five toes, which are connected at their roots by a fmall fold of the fkin ; the colour of the upper parts of the body is deep brown mixed with afh colour, the belfy a whitifh àn colour, and the legs dirty white.

The tail is long, naked, and fcaly; the head is long-fhaped, with a narrow pointed nofe, the upper jaw being much longer than the lower; the ears are large and naked. Penn. hift. of quad, n. 299. Arct. zool. n. 58. Lever. Mur.

Inhabits north America.-This animal is larger than the Black, and fimaller than the Brown Rat; it is of a dccp brown colour, inclining to afh colour on the belly, and the fur is coarfe and harfh. It is probably this fpecies which is faid, Kaln's trav. ii. 43 . to live among the fones and clefts of rocks,
in the Blue mountains of Virginia, at a diftance from the peopled part of the country, which comes out only at night, and makes a terrible noife.

Has a long, naked, fcaly tail; the upper parts of the body are of a light brown, mixed with tawny and afh 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 reddifh colour, having four toes on the fore feet, with a finall claw in place of the fifth, or thumb. Erxleb. mam. 381 . n. 1.-Mus filveftris, or Wild Rat, with a very long tail, of a dilute reddifh brown colour, the belly whitifh. Briff. quad. ı70. n. 3.-Mus aquaticus. Gefn, aquat. 732.-Surmulot, or Brown Rat. Sm. Buff. iv. 336. pl. xcvi. Penn. hift. of quad. n. 298. Arct. zool. n. 57.-Norway Rat. Brit. zool. i. n. 26.-Bandicote. Purchas, ii. II70.

Inhabits India and Perfia, and has only been known in Europe in the prefent century.-Dwells in burrows which it digs in the banks of rivers, and frequents towns, aqueducts, drains, neceflaries, ftables, barns, gardens, fields, and houfes; it fwims and dives with great dexterity; feeds on vegetables, grain, fruits, and even deftroys poultry; is hunted greedily by Cats, Dogs, and Ferrets. This animal lays up ftores of acorns, beach-maft, and other provifions, in its holes, in which the males remain during winter, except in fine weather, without hybernating, but the females and their young live moftly in barns and out-houfes in that feafon: It often emigrates from one place to another in great companies. The female produces three times in the year, having twelve or fifteen, even eighteen or nineteen, at a litter. The body, of a full grown individual, is near nine inches long; the tail, which confifts of two hundred rings, is feven and a half inches in length; and the whole body ufuaily weighs from eight ounces to a pound; the feet are naked, and of a dirty fefh colour; the toes are very diftinct; the whifkers are longer than the head; and the eyes are large, black, and prominent. This fpecies is probably the Mus cafpicus of 雨lian, which he fays was nearly as large as the Ichneumon, and made periodical vifits in vaft multitudes to the countries which border on the Cafpian, fwimming boldly over the rivers, holding by each others tails. Alian. hift. cap. xvii.

## 5. Black Rat.-6. Mus Rattus. 12.

Has a very long faly tail; the upper parts of the body are deep black grey, and the under parts afh coloured. Pallas, glir. 93. n. 41. Schreber, iv. 647.t. clxxix.

Mus Rattus, or Common Rat, with a long and almof naked tail ; having four toes, and a fmall claw in place of the fifth, on each fore foot, and five on the hind feet. Syft. nat. ed. xii. 83. Faun. Suec. ii. 12. n. 33. Mull. prodr. 5. n. 31. Briff. quad. 168, n. 1. Gronov. zooph. 4. n. 18.Mus domefticus major, or Larger domeftic Moufe, ufually named Rat. Gefn. quad. 731. Raj. quad. 217. -Rattus. Aldrov. dig. 415.-Glis. Jonft. quad. t. 6o.-Sorex. Hufnagel, archetyp. 3. t. iii.-Rat. Sm. Buff. iv. 275. pl. lxxi. f. i.-Black Rat. Penn. hift. of quad. n. 297. Arct. zood. n. 56.-Common Rat. Drit. zool. i. n. 27.

Inhábits India, Perfia, and Europe, except its moft northern parts; from hence it has been carried to Africa and America, and is freguent in Otaheite, though lefs commen in the other iflands of the fouthern
fouthern ocean.-Of late years this fpecies has greatly diminifhed in Europe, and is even in many places extirpated, in confequence of the introduction of the Brown fpecics, which deftroys the Black Rats. The Black Rat is a cautious and fierce animal, which eats very voracioully of almof every thing that comes in its way, and drinks little; it is a great peft in houfes, as it attacks erery kind of provifion, and gnaws the furniture : It even preys on its own fpecies: It is preyed on, in its turn, by owls, weafels, and cats, though many of thefe laft will not venture to attack them. The female has ten teats, breeds feveral times every year, and brings five or fix young ones at a birth. The head and body meafure about feven inches long, and the tail, which is very finall, and has two hundred and fifty diftinct rings, is about an inch longer than the body; the whole body weighs near fix ounces; the fur is of a deep iron grey colour, almoft black; the belly afh coloured; the feet and legs are durky, and almoft naked; fometimes the upper parts of the body are dufky or afh coloured; rarely fpotted with white, or altogether white, with red eyes.

## B. Small Rat.-Mus Rattus minor.

In the neighbourhood of the lower parts of the river Volga there is a fmall variety of this fpecies, found in the deferts, which does not weigh above fix or feven drams. Pallas, nov. Ip. Fafc. i. 93.

## 6. Common Moufe.-7. Mus Mufculus. 13 .

The tail is very long, fcaly, and almoft naked ; the fore feet have each four, and the hind feet five toes; the fifth, or thumb, having no claw. Faun. Suec. 34.
Moufe, with a very long fcaly tail; the upper parts of the body being tawny, and the lower parts whitifh or afh coloured. Pallas, glir. 95. n. 43. Schreber, iv. 654. t. clxxxi. Faun. Suec. i. 11. n. 3 I. Muf. ad. Fr. i. 9. Briff. quad. i69. n. 2. Gronov. zooph. i. 4. n. 19. Brown, Jamaic. 484.-Mus domefticus minor, or Leffer domeftic Moufe. Aldrov. dig. 417. Raj. quad. 219. Sloan, Jamaic. ii. 330. Jonft. quad. 165 . t. 66. Hufnagel, archetyp. i. t. 3. io. p. 2. t. 8. p. 4. t. 2.Souris, or Mioufe. Sm. Buff. iv. 282. pl. lxxxi. f. 2.-Common Moufe. Penn. hift. 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 almoft entirely in houfes, and follows mankind for the fake of their provifions; it feeds on alnoft every thing, fuch as grain, bread, cheefe, butter, oil, and every kind of food ufed by mankind, aral 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 fix at each litter; is preyed on by cats, rats, weafels, owls, and hedge-hogs; may be deftroyed likewife by means of Elder and Black Hellebore.
B. Several varieties of Mice, as to colour, are found; fome being altogether black, fome yellowifh, fome fpotted with white, fome of a white colour with afh coloured fpots, and the moft beautiful of all, and the leaft common, are entirely white, with red eyes; but, as thefe agree in every other circumftance, it is unneceffary to defcribe them more at large.

## 7. Tield Moufe.-8. Mus fylvaticus. ェ\%.

Has a long fcaly tail ; the upper parts of the body are of a yellowifh brown colour, the breaft yellow, and the belly white. Pallas, glir. 94. n. 4. Schreber, iv. $6_{5}$ r. t. elxxx.
Moufe, with the tail of a middle length, having four toes on each foot before, and five behind; the body of a yellowifh brown colour, with a few dulky hairs, and the belly whitifh. Syft. nat. ed. xii. i. 84. Faun. Suec. ii. 12. 11. $3^{6 .}$-Moufe, with a long tail, the upper parts of the body being of a yellowifh brown colour, and the under parts whitifh afh coloured. Brif. quad. i 74 . n. 9.-Mus campeftris major, or Larger field Moufe, having a very long tail, of a dufky eolour, and reddifh on the fides. Briff. quad. ifi. n. 4.-Mus agreftis minor, or Leffer field Moufe. Gefn. quad. 733.-Mus domefticus medius, or Middle domeftic Moufe. Raj. quad. 218.-Mulot, or Long-tailed field Moufe. Sm. Buff. iv. 285. pl. lxxxii. f. i.-Field Moufe. Penn. hift. of quad. in. 302.-Long-tziled field Moufe. Brit. zool. i. n. 28. Arct. zool. n. 6 r.

Inhabits Europe.-Is found in woods, fields, gardens, and flrubberies; and, during winter, eomes into barns, ftables, and out-houfes: It feeds on grain of all kinds, nuts, acorns, beech maft, and other feeds, of which it makes great magazines in its holes under ground; likewife on other fpeeies of this genus, fmall birds, and even on its own fpecies. Hogs are often led by the fimell to their hoards, and do great mifchief in the fields by digging them up. It is preyed on by hawks, foxes, poleeats, and martins. This fpeeies is rather larger than the Common Moufe, being near four and a half inches long; and the tail, which is blackifh above, white underneath, and flightly eovered 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 furfaee of the ground, and produces from feren to ten young ones at a birth.

## ß. White Field Moufe.-Mus Jylvaticus albus.

Is entirely white, with red eyes.
This rariety is but rarely met with,

## 8. Harveft Moufe. - Mus meforius.

Has a long fcaly tail; the upper parts of the body are of a full rully brown colour, the belly is white, and a flraight line along the fides divides the two colours. Penn. hift. of quad. n. 303.

Lefs Long-tailed field Moufe. Penn. Brit. zooi. ii. app. 498. Syft. nat. ed. Gmel. i. 129. n. 17. $\beta$. - Harveft Rat. Pen:2. fyn. of quad. n1. 23 1.

Inhabits Hampflire.-This feecies, or perhaps rather variety of the former, is lefs than the prea celing, being only two inches and a half long from the nofe to the rump, and the tail, whieh is fomewhat hairy, is two incles in length : It weighs only about a quarter of an ounce. It never enters looufes, but is very numerous in the fields during harveft, and is often earried in great numbers among the fheares into the barn-yard. The female makes a round neft of blades of corn, for her young, between
between the firaws of fanding corn, and brings about eight at a birth. It burrows very deep in the ground, forms a warm bed of dried grafs, and takes fhelter in its hole during winter.

## 9. Ruftic Moufe.-9. Mus agrarius. 7 .

The tail is long and fcaly; the body is of a yellowinh colour, with a dufky or black line along the back. Pallas, It. i. 454 . D ${ }^{0}$. Glir. 95 . n. 44 . and p. 34 r. t. 24. A. Schreber, iv. 658. t. clxxxii.

Mus rubeus, or Reddifh Moufe. Schwenkfeldt, An. Siles. 114. S. G. Gmel. It. i. i51. t. 29. f. 2.

Inhabits Ruffia, from the Tanais to the Jenifei ; in Silefia, and rarely in Germany. - This fpecies is migratory, and wanders about often in raft multitudes, doing prodigious harm to the corn : It is about three inches long, and fcarcely weighs half an ounce; the tail is only about lalf the length of the body and head; the belly and legs are white; the head is oblong, with a fharp nofe, and fmall ears lined with fur; the hind legs have each a dufky circle juft above the foot. It burrows in the ground, forming a long gallery juft below the furface, and a little clevated, leading to a larger chamber, in which confiderable quantities of grain and feeds are ftored up for winter provifion.

## B. American Ruftic Moufe.-Mus agrarius americanus.

Has a broad flripe along the middle of the back of a mixed dufky and ferruginous co. lour; the cheeks, fpace beneath the ears, and fides, are orange coloured; and all the under parts of the body, the legs and feet, are pure white. Pcnn. hift. of quad. r. 302. e.

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 tait is dufliy above, and whitifh beneath.

The tail is long and fcaly; the upper parts of the body are of a deep tawny or ferrito ginous colour, and the under parts whitifh. Pallas, It. i. $45-4$ n. 4. D. Glir. 96. n. 45 . and p. 345. t. 24. $\beta$. Schreber, iv. 660. t. clxxxiii.

Inhabits Ruffia.-Is about half the fize of the Common Moufe, the tail being farcely two inches long; the female is finaller than the male, and lefs elegant in her colours; the nofe is fomewhat fharp; the face is dufky, with fome whitenefs at the corners of the mouth; the ears are fmall, and almoft hid in the fur; the feet are grey. This fyecies is found in the corn ficlds 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 femeles.

Is elegantly yellowifh coloured on the upper parts, and pure white on the under parts, of the body. Syft. nat. ed. Gmel. i. p. 130 .
Inhabits Siberia.-This variety is exceedingly beautiful.
11. Shrew-like Moufe.-1 I. Mus foricinus. 10.

The tail is of a middle length and fomewhat hairy ; the fnout is lengthened ; the ears are rounded and hairy; the upper parts of the body are of a yellowifh grey colour, and the lower parts whitifh. Schreber, iv. 66r. t. clxxxiii. B.

Inlabits the neighbourhod of Strafburgh in Germany.-This fpecies was difcovered by Profeffor Herman : It is fcarcely two inches and a half long; the fnout has feven rows of whifkers; the fore feet have four toes each, and a tubercle in place of a thumb, the hind feet five toes, all armed with very fmall claws; the tail is all over of a mixed yeliowifh and afh colour, being rather more hairy on its under furface.

## 12. Wandering Moufe.-12. Mius vagus. 14.

The tail is very long and almof naked; the colour of the upper parts of the body is a pale afh, waved with black, and having a black line along the middle of the back; the ears are large, oval, naked, and plaited. Pallas, glir. go. n. 36. and p. $3^{2}$ \%.t. 22 . f. 2. Schreber, iv. $66_{3}$. t. clxxxiv. f. 2.
Mus fubtilis, or Cunning Moufe. Pallas, It. ii. 705 . n. 1 I. $\%$-Wandering Moufe. Penr. hift. of quad. n. ${ }^{3} 08$.

Inhabits the deferts of Tartary, and in Siberia, as high as the Ural, Irtifin, Oby, and Jenifei.-Is frequent in the birch woods, and lives in fiffures of rocks, under ftones, and in hollows of trees; feeding chiefly on feeds, and likewife on fimall animals of the fame 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, fo as even to become torpid and fall afleep, in a round form, in the cold nights of the month of June. It is between two and three inches long, the tail being almoft three, and weighs two drams; the legs are very flender, and the feet whitith, having four toes, and a conical excreffence, before, and five behind, all armed with long claws; the tail is longer than the body, very flender, prehenfile at the end, of an afl colour above and whitifh below; the head is oblong, with a blunt nofe reddifh at the tip, having yellow forc-tecth, and only two grinders on each fide in the upper jaw. The female has eight teats.

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\text { 13. Beech Moufe.-13. Mus betulinus. } 15 .
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Ifas a very long and almof naked tail ; the upper parts of the body are tawny, with a black line along the back, the under parts whitifh, or pale afh colour; the ears briftly at the ends. Pallas, Clir. 90. n. 35. and p. 332.t. 22. f. 1. Schreber, iv. 664 . t. cl.xxxiv. f. i.

Mus fubtilis, or Cunning Moufe. Pallas, It. ii. 705 n. 11. ß.-Beech Moufe. Tenn. hirt. of quad. n. 309.

Inhabits the birch woods in the defert plains of Ifchim and Baraba, and between the Oby and Jc-nifei,-Lives folitarily, frequenting the hollows of decayed trees; runs up trees readily, and faftens on their branches with its tail, and by means of its flender fingers, or toes, it can faften even to a very finooth furface ! 'This fpecies has confiderable refemblance to the Wandering Moufe, but is Yomewhat fmaller ; the nofe is fharp, with a red tip ; the ears are finall, oval, plaited, brown, and briftly at the ends; the limbs are very flender, with long, and very feparable toes; the tail is flender, and much longer than the body, being brown above and whitifh underneath. The Beech Moufe is very delicate, and foon grows torpid in cold weather ; its voice is very weak.

The tail is of a midale length, and almoft naked; the general colour is a brownith afh, 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. Sparrinan, voy. to Cape of Good Hope, Eng. ed. 1785, app. to wol. ii. 347 . t. vii.
Inhabits the forefts of Sitficamma near Slangen river, two hundred hours journey eaft from the Cape of Good Hope.-This fpecies is fcarcely two inches long, the tail is about two-thirds of the length of the body, and the whole animal, even when fteeped many months in fipirits, hardly weighs four fcruples. The body is fomewhat flattened; the regions of the eyes, the ears, and the nofe, are of a paler: colour than the reft of the body ; all the feet have five toes, the thumb or inner toe of the fore feet being very fmall, but diftinctly furnifhed with a claw; the legs and feet are ftrongly made; the tail is almoft naked, and of a pale afh colour.

## 15. Striped Moufe.-15. Mus friatus. 19.

The tail is long, and almof naked ; the body is elegantly marked with twelve rows of fmall white fpots. Pallas, Glir. 90. n. 37.
Moufe, with a long and almof naked tail ; having four toes before and five behind; the boly marked with rows of fpots. Syft. nat. ed. xii. i. 84.- Muf. ad. Fr. i. io.-Mus orientalis, or Oriental Moufe, with a long tail, of a reddifl colour, and marked on the back with rows of pearl coloured fpots. Briff. quad. 175. n. io. Seba, Muf. ii. 22. t. 2 I. f. 2 -Oriental Moufe. Penn. hif. of quad. n. 304 . Pallas, Glir. n. 97. Nat. mifc. pl. 73.

Inhabits India.-This fpecies is about half the fize of the Common Moure, and the tail is of the fame length with the body ; the upper parts of the body are of a brownifh grey colour, the lower parts whitifh ; the ears are flhort, round, and naked.

## ß. Cherofo.-Mus mofchatus.

In the fame country, and in Guinea, is another very fmall fecies of Moufe, not fufficiently defcribed, which fmells of mufk. It is called by the Portuguefe, who fay its bite is venomous, Cherofo. Penn. hift. of quad. p. 44б. Boullaye la Gouz. 256. Barbot, Guinea. 214.

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The tail is of a middle length; the body is brown, with ten whitifh ftripes; has three toes before and five behind. Syft. nat. ed. xii. T. i. P. 2. add.
Barbary Moufe. Penn. hift. of quad. n. 305 .
Inhabits Barbary-This feecies is fmaller than the Common Moufe; the under parts of the body are whitifh; 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 fufpects that. this animal. fhould be referred to the Cavy. genus.

## 17. Mexican Moufe.-Mus mexicanus.

Has a large reddifi fpot on each fide of the belly. Penn. hift. of quad. n. 306.
Mus mexicanus maculatus, or Spotted Mexican Moufe. Seba, Muf. i. 74. t. xlv. f. 5.
Inhabits Mexico،-Is of a whitifh colour, mixed with red, and having a large reddifh fpot on each fide of the belly; the head is whitifh.

## $\dagger$ With round hairy tails.-Cuniculariio.

## 18. Virginian Moufe.-Nius virginianus.

The tail is univerfally hairy, very thick at the bafe, decreafes gradually, and becomesvery long and flender. Penn. hift. of quad. n. 307 . Arct. zool. n. 62 .
Mus fylveftris americanus albus, or White American Field Moufe. Seba, Muf. i. 76. t. xlvii.f. 4.

Inlabits Virginia.-The nofe is pointed and black; the ears pointed; the limbs very flender; the colour is univerfally white ; the tail tapers gradually from the rump, fo as hardly to be diftinguifled from that at its origin.
19. Rỏck Moufe.-17. Mus faxatilis. 2I.

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 Moufe. Penn. hift. of quad. n. 3 .12.
Inlabits the eaftern parts of Siberia, beyond lake Baikal, and in the deférts of Mongul Tartary.-. Burrows in the fiffures of rocks, forming a winding oblique paffage, which afterwards branches outinto feveral others pointing downwards, and ending in a chanber, in which is a bed, or neff, made of foft herbs. This fpecies is about four inches long, and weighs nearly nine drans; ; 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 frong; 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 afh or whitifh; the feet and legs are blackifh; the fnout is dunky, and furrounded with a flender white ring. This fpecies feeds chiefly on the feeds of the Aftragalus.

## 20. Blue Moufe.-18. Mus cyanus. 22.

The tail is of a middle length and fomewhat hairy ; the upper parts of the body are of a blue colour, and the under parts whitifh. Molina, hift. nat. Chil. 266.

Inhabits Chili in South America.-In fize and general appearance this fpecies refembles the Fich Moufe, except in colour; the ears are rounded; and the animal is extremely timid : It forms large burrows, which are divided into feveral chambers, and into which it collects great ftores of bulbous roots; for thefe the natives fearch with great care.

## 21. Water Rat.-19. Mus amphibius. In.

The tail is of a middle length; the ears fcarcely 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.

Moufe, or Rat, with a long hairy tail, having the hind feet webbed *. Syft. 11at. ed. xii. 82. Faun. Suec. ii. 12. n. 32.-Moufe, having the tail of a middle length; the fur is blackifh; 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 yellowifh, and the under parts afh coloured. Brif. quad. 175. n. 11.Mus aquaticus major, Rattus aquaticus, Larger Water Moufe, or Water Rat. Raj. quad. 217.Mus agreftis major, or Larger Field Moufe. Gefn. quad. 733. Raj. quad. 2 59.—Water Rat. Sm. Buff. iv. 290. pl. Ixxxii. f. 2. Penn. hift. of quad. n. 300. Arct. zool. n. 59.

## B. Meadow Water Rat.-19. B. Mus amphibius terreftris.

Has a fomewhat hairy tail of a middle length; having three toes, and the rudiments of a fourth on the fore feet, and five behind; the ears being florter than the fur $\dagger$. Syft. nat. ed. xii. 82. n. ro. Faun. Suec. ii. if. n. 3 1.
Mus agreftis brachyurus, or Short-tailed Field Moufe, having a large head. Raj. quad. 218.
\%. Marfh Water Rat.-19. 2. Mus anphibius paludofus.
Of a black colour, with a hairy tail of a middle length ; having three toes, and the fu: diments of a fourth, on each fore foot, and five behind ; the ears are fhorter than the fur. Mant. pl. 2. 522.

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* This laft circumftance is a miftake copied by the great Linraeus after Willoughby and Ray.
$\dagger$ Mr Pennant refers this variery to the Mus arvalis, or Meadow Mcufe, to be afterwards defribed, but it is retained here on the authority of Dr Gmelin.-T


## 8. Black Water Rat.-19. ס. Mus amplbibius niger.

Of a uniform black colour.

Has a large white fpot on the back, and a white line on the breaft.
Inhabits the whole of Europe, the nortliern parts of Afia as far as the icy fea, and North America.The feveral varieties of this fpecies dwell chiefly near waters, forming burrows in their fteep banks, about ponds and wet ditches; likewife in marfhy places, meadows, and gardens; they feed on roots $;$ herbs, and fhrubs, and on frogs, craw-fifh, infects, fmall fifh, and the fry of larger ones. The flefh of thefe animals is reckoned very delicate by fome of the more favage inhabitants of the Ruffian empire, and is eaten by the French, along with that of the Otter, during Lent. The female is fimaller than the male, and has a greater yellownefs of colour; fhe 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 fmeil ftrongly of murk, and produce as far as eight young ones in the month of April. The nofe is thick and blunt, with fhort ears, which are hid in the fur, fmall 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 fhort black hair, and is whitifh at the tip; the body and head are both thick, fhort, and compact, and meafure feven, inches long; the tail is from three to five inches in length; the ears are of an oval fhape, and briftly 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 fpecies is very fierce, and, bites bitterly; it fwims: and dives with great facility, and lives much in the water.
22. Garlic Moufe.-20. Mits alliarius. 23.

The tail is fhort ; the ears are rather large, and fomewhat hairy; the body is affi coaloured on its upper parts, and whitifh underneath. Pallas, Glir. 80. n. i8. and 252 . t. xiv. . f. C. Schreber, iv. 67I. t. clxxxvii.

Garlic Moufe. Penn..hift. of quad..n. $3 \times 5$.
Inhabits Siberia, about the rivers Jenifei, Kan, Lena, and Angara. - Feeds on the roots of garlic, of which it lays up large ftores in fubterraneous burrows. The ears are large, open, and naked; the tail is hairy, being of a white colour, marked on its upper part with a dunky line; the back is afh co-. loured, mixed with longer hairs tipped with dufky grey; the fides are pale aft coloured, and the belly, breaft, and feet are white; the fore feet have each four toes; the body and head meafure a little more thian four inches; the tail farce an inch and a half: This fpecies. refembles the Meadow Moufe, so be aftemards defcribed; but, in the form of the head, the whifkers, and the cars, it comes nearer to the Common Moufe, though greatly larger.

Has a fhort tail ; the ears are longer than the fur, which is tawny red on the back, light
light grey and yellow on the fides, and whitifh on the belly. Pallas, Glir. 79. n. 1ヶ. and p. 246. t. xiv. B. Schreber, iv. 672. t. clxxxviii.
Red Moufe. Penn. hift. of quad. n. 3 14. Aret. zool. i. 136. B.
Inhabits Siberia, from the Oby as far as Kanntfchatka, and within the Arctic circle. - The head and body meafure fcarce four inches, and the tail a little more than one; the face and nofe are very briftly; the tail is hairy, yellowifh on its upper part, with a dußky line along its whole length, and white below; the ears are large, open, and naked, being tipt with a rufty coloured down : This fpecies has confiderable affinity to the Meadow Moufe, but the legs and feet are more hairy, and white; it lives in holes and hollows of trees; feeding on grain, and fometimes on animals of the fane genus, likewife eats almoft of every thing which comes in its way, and is fond of flefl ; it comes often into, houfcs and barns; is very lively, and runs about, even on the fnow, the whole winter.

## B. Leffer Red Moufe.-Mus rutilus minor.

$A^{\prime}$ fmailer variety of this fpecies has been found about Cafan, and in the botanical garden at Goct-tingen in Germany.

$$
\text { 24. Gregarious Moufe.-22. Mus gregalis. } 25 \text {. }
$$

Has a fiort 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 afh coloured on the upper parts, and whitifh below. Pallas, Glir. 79. n. 16. and 238. Schreber, iv. 674. t. clxxxix.
Gregarious Moufe. Penn. hift. of quad, n. 323.
Inhabits the eaftern parts of Siberia.-Dwells in arid places, forming burrows, with numerous open-ings, directly under the fod ; thefe lead to chambers, in which it lays up large frores of roots, efpecially thofe of the Lilium pomponii and garlic: This fpecies is lefs than the next, or Economic Moufe, and longer than the Social; the female being near five inches long, and the male about an inch fhorter; the nofe is blunt, with a.fmall mouth, and naked ears which appear above the fur ; 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 whitifh; the tail is covered with thin white hairs, being tipt with black and. afh colour: It eats fitting up.

$$
\text { 25. Economic Moure.-23. Mius occonomus. } 26 .
$$

The tail is fhort ; 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.
©conomic Moufe. Penn. hift. of quad. n. 313. Arct. zool. i. 134. A. Georgi, It. i61.-Tengoulichitck. Defri. of Kamtfchat. Eng. ed. 104.
Inhabits Siberia, from the river Irtifh eaftwards, in Kamtfchatka, and under the Arctic circle.The eyes are fmall ; the ears naked, and almof 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 duffy; the head and body meafure four inches and a quarter; the tail rather more than an inch; the general form refembles that of the Meadow Moufe, but the body is rather longer, and the belly larger. This fpecies dwell moftly in damp foils, forming burrows, with many chambers and numerous entrances, immediately under the turf. In thefe 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 thefe animals in great regard, and never deftroy their hoards ; they take away only part, and leave fome Caviare, or fome other fubftance to fupport them in its ftead. This fpecies fometimes emigrates in vant multitudes, keeping 2 ftraight courfe even over rivers, and is much infefted on their march by birds, fifh, 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 Ochotika and Judoma, at a vaft diftance; 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 Tfchutfi are not fo much attached to this animal, and make ufe both of their winter frores and of their carcaffes as food.

## ß. Laland Moufe.-Mus glareolus.

Dr Gmelin is at a lofs whether the animal defcribed by O. F. Mufler, under the name of $M u s$ glereolus, as found in the ifle of Laland, and figured by Schreber, iv. t. cxc. b. fhould be referred to this feecies; but he gives no defcription by which the circumftance may be afcertained.

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 ahn colour. Molina, hift. 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, efpecially onions; the female breeds twice a year, and brings five or fix young ones at each litter. It is about fix inches long, with a fhort nofe, and finall tharp pointed ears; the fur is very long and exceedingly fine, almof like the threads of a fpider's web, and was formerly employed as the very fineff fecies of wool by the Peruvians.

## 27. Meadow Moufe.-25. Mus arvalis. 16.

The tail is fhort; the ears fcarce reach beyond the fur ; the fore feet have each three toes and the rudiments of a fourth; the fur is dußky. Pallas, Glir. 79. n. 14. Schreber, iv. 680 . t. cxci.

Mus gregarius, or Gregazious Moufe, having a fomewhat hairy tail one third the length of the body; the body is mixed brown and black on the upper parts, the lower parts white. Syft. nat. ed. xii. i. 85.-Mus terrefris, or Land Moufe, with the tail of a middle length; the ears fhorter than the fur; the upper parts of the body rufty brown, and the lower parts afla coloured. Erxleb.
mam. 395. n. 7.-Mus campeftris minor, or Smaller Field Moufe, having a fhort tail ; the upper parts of the body mixel blackifh and dirty yellow, the under parts afh colour. Briff. quad. I76. n. 12.-Campagnol, or Short-tailed Field Moufe. Sm. Buff. iv. 293. pl. Ixxxiii. Gefn. quad. 733. Penn. hift. of quad. n. 322. Brit. zooL. i. n. 31. Arct. zool. n. 65.

Inhabits all Europe, Siberia, Hircania, and Newfoundland.-Dwells in bufly 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, almoft 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 ath, and the legs and feet dufky ; the tail is terminated by a fmall tuft of hair.

## ß. Blackifh Meadow Moufe-Mus arvalis nigricans.

Is of a blackifh brown colour on the upper parts of the body.
Dr Gmelin is uncertain, if the animal defcribed by Linnaeus under the name of Mus agsefis, with a fhort tail, of blackifh brown colour on the upper parts, and afh colour on the belly, fhould be confidered as a variety of this fpecies. Faun. Suec. ed. 2. p. ii. n. 30.-In the plate quoted from Buffon are three individuals of this fpecies; the two lower figures are of a lighter colour, and feem to be the former variety; but the upper one is almoft black, and is probably the variety mentioned above from the Fauna of Linnaeus..

## 28. Social Moufe.-26. Mus focialis. 28.

Ilas a very flort tail; the ears are naked, rounded, and very fhort; the fore feet have each three toes and the rudiments of a fourth; the upper parts of the body are light grey; the fides, fhoulders, and belly, are white. Pallas, Glir. 77. n. i3. and P. 2I8.t. xiii. B. Schreber, iv. 682. t. cxcii.

Social Moufe. Penn. hift. 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 Cafpian fea, and in the mountains of Hircania. - This fpecies lives in pairs, or in families conffing of a male and a female with their. young ones; and of thefe families vaft numbers live together, the whole country being covered with little hills of earth thrown out of their burrows. They feed moftly on tulip roots, and are preyed on by weafels, polecats, crows, and etters. The head is thick, with a blunt dufky nofe; the limbs arefhort and ftrongly made; the head and body are fomewhat more than three inches long, the tail only half an inch, and very flender. This animal fwarms chiefly in fpring, and rarely appears in au* tumn, at which feafon it is fuppofed to migrate, or to take fhelter anong the bufhes.
29. Rambling Moufe.-27. Mus lagurus. 29.

Has hardly any tail ; the ears are fhorter than the fur; the fore feet have each three:
toes and the rudiments of a fourth; the upper parts of the body are afh coloured mixed with dufky, and having a black line along the back. Pallas, Glir. 77. r. I2. and p. 210. t. xiii. A. Schreber, iv. 684.t. cxciii.
Hare-tailed Moufe. Penn. hift. of quad. n. 320. Arct. zool. n. 66.-Dhilkis-Zizchan, Mus ragus, or Rambling Moufe. Pallas, It. ii. 704.

Inhabits the deferts near the rivers Ural, Irtifh, and Jenifei.-Each individual forms a round neft of dried grafs 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 fpecies of this genus, and one another; they fleep very much, in a rolled up form, and are very flow in their motions, like the. Marmot, but do not become torpid in winter: This fpecies is very falacious; the males fight together for the females, and the conqueror generally devours the vanquifhed; the female fmells of mufk when in feafon, produces feveral times in the year, and brings five or fix 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 fwelling lips; the limbs are fhort and flender; the tail is fo fhort, as fcarcely to appear beyond the fur, which is wery full and foft; the upper parts of the body are afh coloured, mixed with dufky, and laving a dufky line along the middle of the back; the belly and feet are pale afh colour ; the length of the body and head is between three and four inches; the tail of the male is fomewhat longer than that of the female.

## 30. Collared Moufe.-28. Nius torquatus. 30.

IIas a very fhort tail ; the ears are fhorter than the fur; the feet.have each five toes; the fur is ferruginous, varied with grey, yellow, and dufky, having a whitifh 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. cxciv.

- Ringed Moufe. Penn. hift. of quad: n. 318. Arct. zool. i. 137. E.

Inhabits the northern parts of the Uralian mountains, and the marfhes near the frozen ocean.Feeds chiefly on the Lichen rangiferinus, Lichen nivalis, and Polygonus viviparus; thefe articles of food are ftored up in burrows, having numerous paffages, which it digs under the turfy foil. This fpecies is migratory, and refembles the next in its manners. The nofe is blunt; the legs are fhort and ftrong, and the feet are covered on the foles with fur, having very ftrong hooked claws on the toes; the fur on the whole body is very fine, of a ferruginous colour on the upper parts of the body, mixed with grey and ycillow, fometimes paile grey, and undulated with dufky ruft colour; from the ears lown each cheek is a bed of dullky, then a ring or collar of white round the neck, and behind that another du1ky patch; the head and body are a little more than three inches long; the tail is dulky, hardly one inch long, and has a tuft of hard briftles at the end, which is blunt.

## 31. Lemming.-29. Mus Lemmus. 5.

Has a very flort tail; the ears are fhorter 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. Sclareber, iv. 687. t. cxcv. $\alpha$. $\beta$.

Moufe, of a tawny colour varied, with black; having a very fhort tail, and fire toes on each foot. Syft. nat. ed. xii. i. 80. Faun. Suec. ii. n. 29. Act. Stockh. 1740, 75. f. 45.-Mus Lemmus. Fabric. It. Norweg. 191.-Mus norwegicus, Norwegian Moufe, or Lemming. Raj. qquad. 327. Worm. Muf. 32 1.-Cuniculus norwegicus, or Norwegian Coney. BriiT. quad. r45. n. 5.-Lemimus. Gefin. quad. 731. Ol. Mag. Sept. 617 .-Leem. Aldrov. dig. 436. Jonft. quad. r68.-Lem. ming. Pontop. Norw: ii. 58. Sm. Buff. vii. 316.-Lemmus Rat. Pern. hitt. of quad. n. 3 If. Arct. zool. i. 136. C.-Lapland Marmot. Penn. fyn. of quad. 274. n. 202. t. 25. f. 2. Worm. hift. anim. Norweg.-Its anatomy. Barthoiin. cent. ii. p. 301.

Inhabits the mountains of Norway and Lapland.-They feed on grafs, the catkins of the dwart ${ }^{\text {² }}$ birch, the Lichen rangiferinus, or Rein-dcer Liverwort, and other fuch regetable productions; in fummer they form thallow burrows under the turf, and in winter they make fimilar long paffages under the fnow in queft of food ; for, as they do not lay up magazines, and do not hybernate, they are obliged to feek provifions in the rigorous winter of thete northern climes. When they forefee, by fome wonderful inftinct of nature, the approach of a very fevere winter, they leare their nortiern haunts in autumn, and emigrate in immenfe multitudes into the lower parts of Norsvay and Sweden, keeping a ftraight line in fite of every obftacle, moving moftly 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 deftroyed by eagles, hawks, foxes, and other animals of prcy, and numbers are drowncd in paffing rivers, or lakes, which never interrupt their courfe, even proceeding on into the fea; from all thefe concurring caufes very few 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 courfe, and bite fo hard as to allow themfelves to be carried a confiderable way, hanging by their teeth to a ftick, before they will quit their hold.

The head is pointed, having very long whifkers, fix of the hairs on each fide being longer and ftronger 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 fmall and black; the ears are fmall, 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 flin is rery thin, and the upper parts of the body are black and tawny, difpofed 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.

## ß. Siberian Lemming.-Mus Lemmus fibiricus.

## Of a fmaller fize, and more uniform tawny colour.

Inhabits the northern parts of the Uralian chain of mountains, and on the river Oby.-This fpecies or variety of the Lemming is confiderably fmaller than the one juft defcribed: The colour is lefs diverfified, being chiefly tawny ; and it differs greatly in manners; for it lays up in its burrows large ftores of provifions to ferve during winter. From this latter circumftance, it is probable that the Siberian Lemming, though this is not mentioned, does not migrate like the former, or Norwegian kind.
32. Labradore Moufe.-30. Mus budfonius. 31 .

The tail is very hort; has no external ears; the feet have each five toes; the back is marked with a dufky ftripe, and each fide wish a yellowifh tawny line; the breaft and belly are whitifh. Pallas, Glir. 209. Schreber, iv. 6gI. t. cxcri.

Hudfon's Moufe. Penn. hift. of quad. n. 3 Ig. Arct. zool. 1. 64.
Inhabits the country of Labradore.-The muzzle is furnifhed with flender brown whikers; the fur is very foft and fine; the upper parts are of an afh colour, tinged with tawny on the back, having a dufky line along the fpine, and a pale tawny ftripe along each fide; the belly is of a pale afh colour ; the limbs are very fhort, and the fore feet are frongly made, having the two middle claws of the male very ftrong and divided at the end ; the claws of the fkins which, from being fmaller, are fuppofed to belong to the females, are frinall ; the tail is very fhort, and is terminated with a tuft of ftiff briftles; the body and head meafure about five inches.

## 33. Lena Moufe. - Mus lenae.

Of a white colour: Has a fhort tail thickly covered with coarfe hair; fhort rounded ears; five toes before and four behind. Penn. Asct. zool. i. r 37. 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 meafure a little more than three inches, the tail not quite one; the body, which is thick, broad, and equal, is covered with longifh fur, which is afh coloured at the roots, and white at the ends; the cheeks are afl coloured, and the chin dulky : The claws on the fore feet are white, and yery ftrong; thofe on the hind feet are much weaker. This fpecies appears and difappears fuddenly; it feeds on the roots of different moffes, and is preyed on by the Arctic foxes; it probably extends to the river Jenifei, as in that diftrict two forts of Mice are found, one, in all probability this, is entirely whites, and the other, probably the Lemming, is black, yellow, and white.

## 34. Kamtichatka Moufe.-Mus T/chelag.

Of a fmall fize, but not fufficiently defcribed. Penn. Arct. zool. i. 138 . F.
Tfchelagatchitch. Defrr. of Kamtfchatka, 392.
Inhabits Kamtfchatka.-Frequents the houfes, and is fo bold that it takes away any thing and eats it quietly at the door.

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{ }^{* * *} \mathrm{H} \text { A MSTERS. }-C R I C E \mathcal{T} I{ }^{*} .
$$

Having pouches in the cheeks, and fhort hairy tails,

Has large, oblong, oval, furrowed ears; the upper parts of the body are of a yellowifh and

[^13]and brown afh colour, the under parts hoary. Pallas, Glir. 86. n. 22. and p. 257 . t. xviii. A. Schreber, iv. $695 \cdot \mathrm{t}$ excrii.

Mus migratorius, or Migrating Moufe. Pallas, It. ii. 703. n. 5.-Yaik Moufc. Penn. hift. of quad. 21. 326.

Inhabits the diftrict of Orenburgh in Siberia, near the Yaik or Ural.-The fnout is thick, with a blunt nofe, and rery flefhy lips, the upper one being deeply divided; the upper fore-tecth are fmall, yellow, convex, and truncated, the lower ones are pointed and flender; the eyes are large; the tail is very fhort and eylindrical, of a brown colour above, and white beneath; the legs are white; the body and head meafure about four inches, and the tail not quite one. This animal lives in burrows, whieh it quits only in the night to feek for food: The Coflacks fay that it migrates out of the deferte in vaft multitudes ; but Dr Pallas fufpects this to be a miftake.
2. German Hamfter.-33. M. Cricetus germanicus. 9 .

Has large rounded ears; the head and back are of a reddifh brown colour, the belly, breaft, and upper part of the fore legs, black ; the fides are reddifh, and marked with three white fpots. Penn. hift. of quad. n. 324 . pl. xlvii. f. I.

Mus Crieetus, or Hamfter, having eheek 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. Syft. natd ed. Gmel. 137. n. 9.-Moufe with a fhort tail; rounded ears; the lower parts very black; and the fides reddifh, with three white fpots. Syft. nat. ed. xii. i. 82.-Glis, f. Marmota argentoratenfis, or Strafbourgh Marmot, of a reddifh afh colour on the baek, having a black belly, and three white fpots on the fides. Brif. quad. 166.-Glis Cricetus. Klein, quad. 56. Agric. fubt. 486. Gefn. quad. 738. Raj. quad. 221. Clauder, E. N. C. dee. iii. n. 5. p. 376.-Poreellus frumentarius. Schwenekf. ther. if8.-Hamiter. Sm. Buff. vii. 178. pl. ccxx. Meyer, Thire. fol. 1748. Norib. t. 81. 82. S. G. Gmelin, It. i. 33. t. 6. Sulzer, Verf. Naturg. des Hamfters, 1773 , Gotha.-German Marmot. Penn. Syn. n. 200. - Hamfter Rat. Penn. hift. of quad. n. 32 . 4.

## B. Black German Hamfter.-33. B. M. Cricetus german. niger.

Is entirely black, except the tip of the nofe, edges of the ears, and the feet, which are white. Penn. hift. of quad: $\dot{\text { p. }} 462$. pl. xlvi. f. 2.

Cricetus niger, or Black Hamfter. Lepechin, It. i. 192. t. 15. Palias, It. i. 128. Georgi, It. ii. $85^{\text {I }}$. Sulzer, Naturg. des Hamft. fig. in titulo. Schreber, iv. t. cxcviii. B.

Inhabits Siberia, the fouth of Ruffia, Poland, Selavonia, Hungary, Silefia, Bohemia, and Germany beyond the Rhine, efpecially in Thuringia.- Each individual forms a fubterraneous burrow, confifting of feveral chambers, with two holes or entrances leading from the furfaee; one of thefe is perpendicular, and the other, in which the exerements are lodged, is oblique; the holes of the females have feveral perpendicular openings, and each young one of her family is lodged in a feparate ehamber : The chambers which are fet apart for the lodging of themfelves and young are lined with ftraw or grafs ; the reft are larger, and are appropriated for containing magazines of grain, beans, peafe, lintfeed, vetches, and other fuch feeds, each in a feparate cell, fometimes a huadred pounds weight in the
whole: The chambers of the older animals are cuig feveral feet deep, while thofe of the younger ones felem excced one foot under the furface. During fummer the Hamfters live on herbs, fruits, and roots, and, in autumn, are very deftructive to grain; for, befides eating large quantities, they carry it off to their magazine in their check-pouches, which are fo ftuffed that they feem ready to burft, each being able to contain about an ounce and a half at once; they are particularly fond of places where Hiquorice grows, and feed much on its feeds; they feldom eat flefh or devour other animals. Except during the time of courthip, the males and females have no intercourfe; but at that feafon the female defends the male with great fury, though fhe fhows very little affection for her young; when two males mect about one female, they fight bitterly, and the female forms a thort connection with the conqueror; at all other times they reject fociety with each other, and even fight, kill, and devour their own fpecies. Their pace is very flow, and they do not climb; but they dig with vaft quicknefs, and will graw through a piece of wood, an inch and a half thick, in a very fhort time. They are preyed on by polecats, weafels, cats, dogs, foxes, and birds of prey, and are profcribed by man, on account of their devaftations; in one year, about eleven thoufand fkins, in a fecond, fifty-four thoufand, and in a third year, eighty thoufand, were brought to the town-houfe of Gotha, to receive a reward for their deftruction; the peafants even fearch for their ftores, on account of the provifions they contain, and their flkins form an article of trade; they are likewife deftroyed by means of a pafte formed of honey and flour boiled up with arfenic, or powdered hellebore. At the approach of winter, they retire into their burrows, fhutting up the entry with great care, and feed on their collected provifions, till the weather grows fevere, when they become torpid. The firft 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 whinkers, large full black eyes, and large, rounded, open ears; ufually the head and back are of a reddifh brown colour, with red cheeks; the fides are paler, with three white fpots; the breaft, upper part of the fore legs, and belly are black ; the feet are large and white, having four toes, and a claw inftead of a fifth toe, on the fore feet, and five toes on each hind foot: The colour varies; fometimes, though rarely, they are found entirely white, or yellowifh, or white with black fpots on the back; fometimes the fnout is white, and the fore-head afly coloured, or the lower jaw of a white colour.

## 3. Sand Hamfter.-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.
Inhabits the fandy deferts of Baraba, on the river Irtifh, in Siberia.-The head is large, with a longifh fnout, and a fharp nofe, having very long whifkers, very large pouches, and great oval brownifh 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 eacin, the hind feet five, all the claws being white. This animal is very fierce and untameable, it forms burrows, like the preceding fpecies,
4. Rice Hamfler.-35. M. Crivetus phaeus. $35^{\circ}$.

The upper parts of the body are of a hoary ath colour, with long dufky hairs along the back; the fides whitifh; the circumference of the mouth, breaft, 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. hift. of quad. n. $3^{27}$.
Inhabits about Zarizyn in the deferts of Siberia, and in the mountains of the north of Perfia.This fpecies does vaft mifchief 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 eyc-lids are black; the ears are large, oval, almoft naked, and projecting, being clothed flightly with a dufky fur; the tail has a dufky line along its upper part. This animal is often caught in traps during winter, near ftables and other out-houfes, and never becomes torpid.

The upper parts of the body are of a grey afh colour, marked with a black line along the back; the fides of the head and body are varied with large white and dark brown fpots ; 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 Irtilh, in Siberia.-This fpecies likewife digs chambers for the reception of provifions: It is about three inches long, with a very flort, thick, blunt, and hairy tail, little more than one-third of an inch in length; the head is thick, with a blunt nofe, and the whifkers are fhorter than the head; the ears are oval, very thin, long, and covered flightly 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 fo fierce as fome other fpecies of the Hamfters, but may be tamed when caught young, and grows very familiar.

## 6. Baraba Hamfter.-37. M. Cricetus Furunculus. 37.

The upper parts of the body are of a cinereous yellow, with a black ftreak 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 barabenfis. Pallas, It. ii. 704. n. 8.-Mus furumculus, or Thievifh Rat. Pall. nov. fp. fafc. i. 273. t. xv. A.-Furunculus myodes. Mefferfchmid, Mur. Petrop. 343. n. Iog.

Inhabits Dauria, Siberia in the defert of Baraba, towards the Ob, between the Onon and Argum, and in the Chinefe empire near lake Dalai.-This feccies is about three inches long, and the tail near
one; it refembles the Sand Hamfter a good deal; the nofe is fharp, with large, broad ears, of a duiky colour, edged with white; the tail is finall and pointed, of a white colour, and is marked above with a dufky line; the feet have four toes, and a lnob furnifhed with a claw inftead of the thumb or fifth toe. It lives chiefiy on the feeds of the Aftragalus and Atriplex ; but its manners are unknown.

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{ }^{*}{ }^{*} * * \text { M OLE-RATS.-MYOTALPI }
$$

Have no external ears, very fmall eyes, and a very fhort tail, or none. They live entire. ly under ground, like the Moles *:

## 1. Ruffian Mole-Rat.-38. M. Myotalpa talpina. $3^{8}$.

Of a dukty colour: Has a very fhort tail, and no external ears; the fore-teeth are long, extended from the mouth, and wedge-fhaped; the feet have five toes; the fore feet are very ftrong, flat, and formed for digging. Pallas, Glir. 77. n. g. and p. r76. t. xi. A. and Nov, com. Petrop. xiv: 568, t. 21. f. 3. Schreber, iv. 7 II.t. cciii:

Spalax minor, or Leffer Spalax. Erxleb: mam. 379.-Talpine Mole-Rat. Penn. hift. of quad. n. 335 .

## B. Black Ruffian Mole-Rat.-M. Myotalpa talpina nigra.

Is entirely black. Penn. hift. of quad. p. 475.
Inhabits the plains of Ruffia and Weftern Siberia, fcarcely extending beyond the Irtifh, and never beyond the Oby.-This animal is fond of a turfy foil, avoiding fandy or muddy places, and digs holes like thofe of the Hamfter, which it lines with foft grafs, and fills with bulbous roots, throwing up hillocks of earth all along the tracks; each individual has its feparate burrow: It works only in the night, and feldom comes out except in the feafon of love; feeds chiefly on the roots of Tulips, tuberofe Lathyrus, and tuberofe Phlomis. Its fight is very weak in the day time: It is about four inches long, and refembles the Water Rat; has a large fhort head, with a thick fnout, and truncated nofe; the eyes are very fmall, and hid in the fur; the aperture of the ears is only bounded by a fmall rim behind; the body is thick and fhort; the tail fcarce appears beyond the fur; the head, nofe, back, and fides, are duky, the cheeks greyifh, the chin white, and the belly and limbs whitifh. It procreates about the beginning of April, at which time it fimells ftrongly of muik; and the females produce three or four young at a litter.

## 2. Cape Mole-Rat.-39. M. Myotalpa capenfis. 39.

Of a dark brown colour tinged yellowifh, with the fore part of the face, orbits, and regions of the ears, white : Has a very fhort tail, and no external ears; the fore-teeth are wedge-ike; and all the feet have five toes. Pailas, Glirs 76.n. 8. and p. r 72. t. vii. Schreber, iv. 713 . t. cciv.

Cape

* The animals of this fubdivifion of the genus are named Mures fubterranei, by Dr Gmelin; but :he word Myotalpa is preferred in this edition, as being better adapted for the purpofe of a fubgenus.-T.

Cape Hamfter. Kolb. Yorg. d. gut. Yofnin 358.-Mole of the Cape of Good Hope. Sm. Buff: iv. 3 15. pl. 1xxxviii.-- Cape Molc-Rat. Penn. hift. of qual.' 2. 334. pl. xlvii. f. 3 .

Inhabits the Cape of Good Hope. - This fpecies infetts the gaa:lens: It is about n̂ve inches and a half long, having a round head, thick neck, and blunt frout; the hair of the body is pretty long, of a dark brown colour, tipt with ycliow; the whole region of the mouth and nofe, the circumference of the eyes, a longitudinal foot on each car, and on the nape of the ncck, are white; the lower parts of the body and limbs are pale; and the fhort tail, or ftump, is covered with long yellowifh white hairs; the inner toe of each fore foos is very thort, the two next are very long, the fourth fhortcr, and the outer toe is very fiort.

## 3. African Mole-Rat.-40. M. Myotalpa maritima. 40.

Of a pale brownifh afh colour mixed with yellowifh on the upper parts, the fides and under parts paler: Has a very fhort tail, and no external ears; and all the feet have five toes. Schreber, iv. 715 t. cciv. B.
Zand-moll. Mafon, Phil. Tranf. 1xvi. P. i. 304.-Cape Mole. La Caille journ. 299-Taupe des dunes, or Mole of the fand hills. Allamand's cd. of Buff. fupl. v. 24. t. x. - African MoleRat. Penn. hift. 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, meafuring twelve or thirteen inches long, and the head is more lengthened; it forms burrows in the fand, like thofe of Rabbits, which it digs with furpriing celerity ; it runs flowly, is very fierce, and bites feverely; it feeds chiefly on the roots of Ixiae, Antholyzae, Gladioli, and Irides. The head is large, with a black nofe, flattened and wrinkled at the end; the eyes are fmall, and almoft hid in the fur; the lower fore-teeth are long, and it is faid the animal poffeffes the power of moving them farther out at pleafure; the fore feet have four toes with very long claws, and a diftinct thumb with a fhort claw, the foles being naked and provided with two large tubercles; the hind feet are large, very long, and naked, having five toes with floort claws, and is refted on as far as the heel; the tail is flattened, covered on its upper and under furfaces with fhort hair, and fringed at the edges with very long briftes horizontaily difpofed. Is reckoned good eating.

## 4. Daurian Mole-Rat.-41. M. Myotalpa Afpalax. 4 r .

Of a dirty yellow afh colour on the upper parts, and whitifh afh on the lower: Has a very fhort 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. ${ }_{71} 6$. t. ccv.

Mus myofpalax. Laxmann, Sibir. briff. 75. Act. Stockh. 1773--Daurian Mole-Rat. Penn. hift. of quad. n. 332. pl. xlvii. f. 2.

Inhabits Dauria, and in Siberia beyond the Irtifh between the Alei and Tfcharyfch rivers.-This animal digs very long burrows in the black turfy foil or firm fand, throwing up nuinerous hillocks, which extend over a gonfiderable furface; it works both with its feet and nofe, and fometimes with
its Leeth. It feeds chiefly on the roots of the Lilium pomponii, Erythronium, and other bulbous plants. This feecies varies in fize, thofe of Dauria being near nine inches long, while thofe farther eat an: farcely fix, The head is thick and flat, with a thort inout and blunt nofe; the eyes are very fmall and deep feated; the body is thort and flattened, having very ftrong limbs, efpecially the fore feet, on which the chaws are long, ftrong, and flightly bent; the fur is dufky at the roots, and fome individuals have a white line on the hinder part of the head; the tail is foort, round, blunt, and almoft naked.

Of a reddifh afh colour: Has no tail, external ears, or apparent eyes; the feet have each five toes; and the fore-teeth are broad. Pallas, Glir. $75 . \mathrm{z} .6$. and p. 154. t. viii. Schreber, iv. 718. t. ccri.

Moufe, of a reddifh afh colour, having no tail or external cars, and very minute eyes. Lepeching It. i. 23 8. and Nov. com. Petrop. xiv. 504 . t. 15. f. 1.-Spalax micropthalnus, or with very fmall cyes. Guldenftaedt, Nov. com. Petrop. xiv. 409. t. 8. 9.-Spalax major. Ėrxleb. mam. 377.Slepez. S. G. Gmelin, It. i. i31. t. 22.—Blind Mole-Rat. Penn. hift. of quad. n. 33 r. pl. xlvii. f. I.-Podolian Marmot. Penn. Synopf. 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 diftances, in large hillocks, fomerimes two yards in circumference, and proportionally high. This fpecies works with its fnout, feet, rump, and even with its teeth, and digs with great celerity, efpecially when frightened, in which cafe it digs directly downwards. When ir. ritated, it fnorts, gnafhes its teeth, raifes its head in a menacing pofture, and bites with great feverity. It feeds on roots, efpecially thofe of the bulbous Chaerophyllum. It is entirely blind, though it has the rudiments of very finall eyes which afe covered over with a continuation of the fkin ; but it pofiefles the fenfes of touch and hearing in a very eminent degree, to make up for the lofs of fight. The body and head meafure between feven 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 flain; the mouth is continually gaping, with fhort wrinkled fore-teeth above, and very long ones beio.r, likewife furrowed or wrinkled, none of them being hid by the lips; the body is cylindrical, and covered with flort, foft, and clofe fet fur, which is of a dufky colour at the bottom, with the ends of a rufty brown mixed with afh colour; the face about the mouth and nofe 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 bafes. It breeds in fpring and fummer; and the female, which has two teats, brings from two to four young ones at a birth. -This is perhaps the only fpecies of warm blooded animal which is cleprived by nature of the fenfe of feeing, fuppofing that there is no miftake in the information of travellers refpecting its utter blindnefs. -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 feparated from that of $M$ Lus by Dr Gmelin, in imitation of Mr Pennant. Moft, if not all, of the fpecies hybernate, or grow torpid, during winter: They go about in queft of food, and carry on their other necefliary avocations, during tho 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 fhort ears or none; their bodies are thick, with fhort hairy tails; the fore feet have each four toes and a very fhort thumb, or fifth inner toc; and the hind feet have each five toes. The caicum, or blind gut, is generally very large.

## 1. Common Marmot.-1. Arcfomys Marmora. i.

Has fhort round ears; the upper parts of the body are dufky brown, and the lower parts reddifh. Schreber, iv. 722. t. ccvii.

Mus Marmota, with a round convex head, having flort external ears, a fhort hairy tail, and four toes on each fore foot; the upper parts of the body dufky brown, and the lower parts reddifh. Palla:, Glir. 74. n. у.-Having a fhort hairy tail, fomewhat hairy ears, and fwelling cheeks. Syft. 'nat. ed. xii. 8 т. n. 7.-Mus alpims, or Alpine Moufe. Geín. quad. 743. f. p. 744. Aldrov. dig. 445. Raj. quad. 221. Jonft. quad. t. 67. Agric. Subt. 484. Plinii, viii. c. 37.-Mus montanus, or Mountain Moufe. Mathiol. comm. 368.-Glis alpinus, f. Marmota alpina, of a mixed dufky brown and yellowifh. Brif: quad. 165. n. 6 .-Glis Marmota, of a brownifl afl colour on the upper parts of the body, and yellowifh anh below. Erxleb. mam. 358. n. r. Klein. quad. $5^{6}$. Hift. mur. alp. 230.-Marmotte. Sm. Buf. iv. 339. plo xcvit.-Alpine Marmot. Penn. hift. of quad. n. 258.

Tnhabits the higheft fummits 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 almoft of every thing, and is very fond of milk, which it laps, making a murnuring noife; it drinks very little. The Alpine Marmots iive together in focieties of five, nine, twelve, or fourteen, tre fond of batking in the fun, and place a centinel, which gives a whiftle on perceiving the approach of danger, when they inftantly retire into their holes, or, if they cannot efape, they defend themfelves boldly, and bite with great fury. They form burrows provided with numerous paflages and entrances; in the end of September they retire into their fubterrancous chambers, which are well lined with mofs and dry grafs, and, fopping up the entrance with earth, they remain in a torpid fate of hybernation till the month of March : If dug up while in this ftate, and brought into a warm almofiphere, 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 eafly canght when on plain ground, but with difficulty in their holes, as they dig deeper when in danger of beirg taken, except in. winter, when torpid, at which time they are 'caught in great numbers, partly on account of their flefl, which is tender and delicate, partly for their fkins, 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 purpofe of being expofed as fhows through various parts of Europe. In a tame fate, they are very deftructive to all kinds of provifions, clothes, linens, or furniture; and can hardly be prevented, even in warm chambers, from falling into the torpid ftate 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.

The body is thick and Alort, with a large thick head, flattened at the top, and having a thick blune nofe, which is often carried erect when the animal fits; the two bones of the lower jaw are moveable on each other ; the ears are fhort, round, hairy, and almoft hid in the fur ; the cheeks are covered and furrounded with long hair ; the muzzle has feven rows of whifsers; above and below each eye is placed a black wart, on the former of which are fix, and on the latter, feven, briftly hairs; the legs are fort, and the conical thumbs of the fore feet have each a duflyy flat nail; the tail is fraight, and is covered with long hairs: The fur on the upper part of the body is of a brownifh afh colour, mixed with tawny yellow; the fides are paler, and the lower parts reddifh, having a future or parting of the hair, all along the belly, from the throat to the antus; the tip of the tail is very dark brown, almoft Wack: The body and head meafure fixteen inches, and weigh nine pounds; the tail is about fix inches long.

Has flort rounded ears; the nofe and cheeks are bluifh; the body is of a deep brown. colour; the tail is longifl, and very hairy. "Schreber, iv. 7.37. t. ccriii.

Mus grifeus, of a dark brown grey colour, with a bluifh nofe; having a convex head, external ears, and four toes on the fore feet. Pallas, Glir. 74. 12. 2.-Moufe, of a brown afh colour; having a hairy tail of a middle length, roundifh ears, four toes before and five behind. Syft. nat. ed. xii. 8I. n. 8.-Glis fufcus, Marmota americana, or American Marmot, of a brown colour, with a bluifh afh coloured nofe. Briff. quad. 164. n. 5.-Glis Monax, with a brown body, the fides and. belly of a paler colour. Erxleb. man. 361.-Monax. Edw. av. ii. t. Io4. Sm. Buff. iv. 346. pl; xcviii.-Maryland Marmot. Penn. hift. of quad. n. 260. Arct. zool. n. 44.

Inhabits the warmer ftates of North America, and the Bahamas.-This fecies, in America, forms holes in the clefts of rocks and under the roots of trees, in which it pafles the winter in a torpid fate; but it is uncertain if thofe of the Bahamas hybernate, as the climate of thefe iffands is very mild. Thehead is not fo thick and large as in the former fpecies, and the fnout is fomewhat lengthened, the nofe and cheeks being of a bluifh afh colour; the ears are fhort and rounded; the eyes are black and prominent; the feet and legs arc black, having long fharp claws; the tail is half the length of the body, and is covered with longifh dufky hairs. This animal is about the fize of a Rabbit; it feeds on vegetables; and its flefh is very good, refembling that of a Pig.
3. Bobak.-3. Arctomys Bobac. 3.

Of a greyifh colour, mixed with long duky hairs on the upper parts of the body, the under parts yellowifh: Has fmall 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 Arctoniys, with a rounded head, having external ears; the tail fhort and hairy; a claw on each fore foot in place of the inner, or fifth toe; the upper parts of the body grey, and the underparts yellowifh. Pallas, Gili. 75.97. 98. t. 5.-Glis Marmotta polonica, or Polifh Mawmot, of a yellowifh colour, with a reddifh head. Briff. quad. I65.-Bobak. Rzaczinfti, hift. nat. Polon. 235Sm. Buff. vii. 198. pl. cexxi, Forter, Phil. Tranf. lvii. 343. Pean. hift. of quad. n. 262. Arct. $2 c 01.1 .115 . A$

Inhabits the diy and funny places of the mountains, from the Borithenes, through the temperate climes of Afia, as far as China and Kamtfchatka. The Bobak forms very deep burrows, in which focieties of twenty or more live together, each individual having a particular neit at the bottom of the common gallery, which is often three or four yards deep, and from which numerous galleries, or paifages, 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 hans, and carries its food with the fore paws to its mouth, and defends itfelf in the fame pofture; may be eafily tamed, even when okd, and then eats cabbages or bread, and laps milk, but refufes to drink water. In fummer it feeds veracioufly, but remains torpid all winter, except when leept in very warm placcs, and even then eats very little, and efcapes, if poflible, that it may get to fome place proper for hybernating, and returns to its mafter in fpring. The flefh may be eaten, and refembles that of a Hare, though rank; the fat is ufed for dreffing leather and furs, and the thins are employed for clothing by the Ruffians. 'The head and body meafure fixteen inches, the tail is fraight, and about four and a half inches long, and the whole animal fometimes weighs fourtcen 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 greyith white down, having longifh hairs at the edges; the eyes are finall; the whifkers fhort: About the eyes and nofe the fur is of a duky brown colour, growing reddifl among the whifers; the upper parts of the body are greyifh, intermixed with long durky or black hairs, which have grey or whitifh tips; the throat is of a rufty colour; the reft of the body and infide of the limbs are of a yellowifh rufty brown; the tail is flender, full of laair, marked with dunky 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 crange; having fhort rounded ears, and a hairy tail. Schreber, iv. 743 t. ccx.

Mus Empetra, of a mixed colour on the back and reddifh on the belly; having a rounded head provided with external ears, a fhort hairy tail, and four toes on each fore foot. Pallas, Glir. 75 . n. 4.-Glis canadenfis, of a grey colour, with orange coloured belly and thighs. Erxleb. mam. 363.-Quebec Marmot. Penn. hift. of quad. n. 259. pl. xli. f. 2. Arct. zool. n. 43.-Canadian Marmot. Forfter, Phil. Tranf. 1xii. 378.

Inhabits Canada, Hulfon's Bay, and the other northern parts of America.-This feecies is rather larger than a Rabbit, and the tail is about two inches and a half long; the head is round, with a blunt nofe, and fhort rounded ears; the cheeks are full, and of a grey colour ; the face is dulky, with a black nofe; the hair on the back is grey at the roots, black in the middle, and whitifh at the tips; the belly and legs are of an owange colour ; the tail is fhort, fomewhat bufly, and of a duky colour; the feet are black and naked, having four long, flender, divided toes, and the rudiments of a thumb on each fore foot, and five fimilar on each behind, all armed with pretty ftrong claws. This animal was defcribed by Mr Pennant from a living fecimen in poffeflion of. Mr Brooks, wilhich was very tame, and made a hifling noife.

Has very coarfe, long, hoary fur; whitih cheeks, a black nofe, and black legs; having. fhort oval ears. Penn. hift. of quad. n. 26i. Arct. zool. n. 45. Lev. Mur.

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 whitifh, and the crown of the head is mixed with tawny and dufky; the fur on the body is long and harih, being afh coloured at the bottom, black in the middle, and whitifh 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 dufky claws; the tail isblack, and nixed with ruft colour.

## 6. Sounlik.-Arctomys Suyfica.

The upper patts of the body are of a yellowifh brown colour interfperfed with numerous fmall white fpots; the ears are very fhort ; the tail is hairy, and about the length of the thighs. Sm. Buff. viii. 234. pl. cexc.

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; thefe burrows are feven or eight feet long, are dug in a winding form, and have feveral entries; at the bottom are feveral apartments, in which fores of corn, peafe, lintfeed, hemp-feed, and other grains and feeds are collected, each kind in feparate cells; befides theié they have feparate holes for living in : During fummer they feed on grains, herbs, roots, and young mice. The body and head of this fpecies are fomewhat more lengthened than in the other feecies of this genus, and about the fize of a large Rat ; the ears are fhort and rounded; the face, breaft, belly, and legs are of a pale yellow colour ; the tail is covered with fhort yellowifh brown hair; the fore feet have four toes, armed with long claws, and a fhort thumb, or rudiment of a fifth toe; the hind feet have five toes each, the two outer ones fhort, and the other three long.
7. Zifel.-Arctomys Citillus.

Is of an uniform dark cinereous grey colour; has no external ears, a blunt nofe $e_{, ~ a ~}^{\text {a }}$ long flender body, and a very fhort tail. Sm. Buff. viii. 229 .

Earlefs Marmot. Penn. hift. of quad. n. 263. pl. xlii. f. 1. Arct. zool. n. 47.
Inhabits Hungary, Auftria, and Poland:-This fpecies burrows like the former, than which it israther larger, being near-a foot long,

## 8. Zemni.-Arctomys Zemni.

Of a moufe-grey colour; has fhort 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. Mufcov. ii. 402.-Little Earth-dog. Rzaczinki, hift. nat. Pol. 325.

Inhabits Ruffia and Poland.-This fpecies is larger, ftronger, and more mifchievous, than the Zifel: The head is thick, with fhort rounded ears; the body is flender, and covered with fhort, foft fur; the tail is of a moderate fize; 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 fize of a Squirrel, and in manners and difpofitions it refembles the Zifel. It bites cruelly, and eats voracioully of grains, fruits, and pot herbs, laying up magazines of provifions in its burrows, where it paffes the winter.

Thefe three laft defcribed animals, the Souflik, Zifel, and Zemni, are all fuppofed to be of the fame fecies by Dr Gmelin, and are included under one defription, as follows, Syff. nat. ed. Gnel. i. p. 144. n. 6 .; but, on the authority of Buffon and Pennant, they are leparated 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. I19. t. vi. vii. B. ; and Nov. com. Petrop. xiv. 549. t. 21. f. I. 2.-Moufe, of an afh colour, having no external ears, and a fhort tail. Syft. nat. ed. xii. i. 80 . n. 4.-Mus Suflica. Guldenftaedt, Nov. com. Petrop. xiv. 389. t. 7.-Mus Noricus, f. Citillus. Agric. Subt. 485. Gefn. 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. Briff. quad. 14\%. n. 6.-Orientalifcher Hamfter, or Oriental Hamfer. S. G. Gmelin, It. 30. t. 5.-Cafan Marmot, Earlefs Marmot, and Podolian Marmot. Penn. fynopf. of quad. p. 273. n. 201. and n. 203. t. 25. f. r.-Zifel, and Sounlic. Buff hift. nat. loc. cit.

Inhabits the fouthern parts of Ruffia as far as Kamtfchatka, and the inlands between Afia and Amesica; in Perfia and China, and is now rarely found in the reft of Europe. - Dwells in open, high, dry; and uncultivated places, preferring turfy and loamy foils, near the high roads, and never frequents bogs or woods. Each individual has its feparate burrow, in which, for provifion in the beginning and end of winter, it lays up magazines of grain, tender regetables, and berries; fometimes, though rare${ }^{5} 5$, the carcaffes of mice and fmall birds are added; in the middle of winter it lies torpid during the greateft feverity of the froft ; the burrows of the females are dug deeper than thofe of the males: From the very beginning of fpring, as foon as the weather becomes mild, they go out in the day time in queft of food, which they eat fitting on their haunches, carrying it in their fore paws to the mouth. The male is very eafily tamed, but the female is fiercer, more given to bite, and is lefs eafily made tame; fhe goes between three and four weeks with young, and brings forth from three to eight young ones about the beginning of May. The fur is very good in the fpring, and the flefh is reckoned tolerable.. They are preyed on by polecats, weafels, hawks, caurion-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 yellowifh aith on the upper parts, and dirty white on the belly *; fometimes it is variegated either with waves or fmall fpots of white $\dagger$; fome are white on the upper parts, and waved with tawny or yellow, being. fale ycllow on the lower parts of the body, and having a longifh tail, with fhed hair like that of a
*. This uniform variety is evidently the Zifel of Buffon.-T.
$t$ The variety which is fpotted with white is the Soulik of Buffon-T.-

Squirrel; others are of a grey colour on the upper parts of the body fpotted with white *, the under parts being of a yellowifh white, with white orbits, and the face, between the eyes and the nofe, of a brownifh yellow, with a fhort tail. Perhaps this animal is the Mus Ponticus of Ariftotle and Pliny.Gmel.

Of a brick-duft 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. lift. of quad. n. 26 द̧.
Inhabits Barbary, near Maffufin, towards mount Atlas.-This fpecies is about the fize of a fmall Rabbit ; the tail is floort; the upper fore-teeth are large and truncated, the lower ones flender and pointed; it has four toes, armed with claws, on all the feet, and ufes the fole in walking as far as the heel.

## 10. Hudfons Marmot.-Arctomys budfonia.

Of a brown afh colour; with fhort external ears and no tail.
Taillefs Marmot. Penn. hift. of quad, n. 265. Arct. zool. n. 46. Lev. Muf.
Inhabits Hudfons Bay.-Has two cutting teeth above, and four in the lower jaw: The hairs are tipt with white.

## 11. Chilefe Marmot.-Arctomys maulina.

Of a reddifh brown colour, with fharp ears, having five toes on all the feet. Molina, hift. Chil. 268.

Mus maulinus, Syf. nat. ed. Gmel. I37. 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-haped, having four rows of whifkers; the feet have all five claws; and the tail is furnifhed rather thinly with hair.

## XXVIII. S QUIRREL.-27. S CIURUS.25.

Has two fore-teeth in each jaw, thofe above being wedge-like, and the under ones flearp pointed; there are five grinders above,

[^14]
## above, and four below, on each fide. It has perfect collar bones. The hair on the tail is ufually fhed 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 Mkipping about from branch to branch; a few of the fpecies burrow under ground; they live moftly 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 fhort legs; the fore paws have each four toes, with the rudiments of a thumb, and the hind feet have five diftinct toes; the tails are long, and clothed with long hair, which, for the moft part, fheds out on both fides from the middle, both above and below, forming a broad thin fhade, which the animal carries over his back, protecting both againft the fun and rain. Moft of the fpecies are eafly tamed, and become frolicfome, but bite harfhly when teazed; they ufe the foles of the hind feet in walking, as far as the heel, and fkip by leaps, rather than walk, when on plain ground; they fit up on their hind legs, when feeding, and hold their food with their fore parss. Some fpecies 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 themfelves for a little time in the air, when leaping from one tree to another; from this circumftance the genus is very properly broken into two fubdivifions, diftinguifhed by the want or the poffeflion of this membrane.

## . * Climbing Squirrels.-Sciuri fcandentes.

Which have no membranes extended from leg to leg.

## 1. Common Squirrel.-I. Sciurus vulgaris. I.

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. i.-Common Squirrel. Raj. quad. 2i4. Penn. hift. of quad. n. 266. Aret. zool. i. 122. A. Brit. zool. i. 93. Gefn. quad. 845. Allrov. dig. 396. f. p. 398. Jonft. quad. 163 . t. 66 . Schwenkf. ther. Sil. 121.-Eichhoernlein. Ridinger, jagd. th. t. 20. S. Go. Gmelin, It. i. 37. t. 7. Falk, Beyt. iii. 3 I 1. - Ecureil, or Squirrcl. Sm. Buff. iv. 268. pl. 1xxx.Ikorn, or Grankin. Faun. Suec. n. 37.-Wiewiorka. Rzaczinfki. hift. nat. Pol. 225.-The anaton my. E. N. C. cent. Io. app. 449.

## a. Red Common Sguirrel,-Sc. vulg. rufus.

The head, body, legs, and tail, are of a bright reddifh brown colour; the breaft and belly white.

Common red Squirrel, fometimes mixed with gref. Briff. quad. 150. n. I.-Sciurus vulgaris, rubicundus, or Common reddifh.Squirrel. Klein, quad. 53.

Is found all over Europe and the temperate climes of Afia.

As the former, with a pure white tail. Penn. hift. of quad. p. 406 .
Common in many parts of England, and is very beautiful.

In winter of a bluifh afh colour; in fummer red, with a white belly. Erxl. mam. 414. $\alpha$.
Sciurus varius, or VaryingSquirrel-of a whitith afh colour. Brif. 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. 74 I.

Found in Sweden, Lapland, and other cold countries.

> d. Black Common Squirrel.- I. r. Sc. vulg. niger.

Of a uniform black colour. Ervileb. man. P. 4r5. $\beta$. Lever. Mufo
Inhabits about Lake Baikal.

Of an entire white colour, with red eyes. . Erxl. mam. p. 416. $\%$
Sciurus albus fibiricus, or White Siberian Squirrel. Brif. quad. 151. n. 2.-Sciurus albus, or White Squirrel. Wagn. Helv. 185. S. C. Gmelin, It. i. 35. t. 8.

Inhabits Siberia,

## §. Silvery Common Squirrel. - Sc. vulg. argenteus.

Is larger than the ordinary varieties, and of a gloffy filver grey colour. Penn. hift.of quad.

Teleutikaya 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 thefe 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 handfome, 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 oppofite fides, and keeps that hole thut 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 fhoots, efpecillly thofe of the fir; drinks little, and in winter eats fnow in place of drink: It fits up on its hind legs, and fhades itfelf with its tail, which it carries over the back and head; and ufes its fore paws for carrying its food to the mouth : It leaps to a furprifing diftance; and is faid, when inclined to pafs a river, to ufe a piece of *)
bark as a boat, erecting its broad tail to the wind as a fail. The \&kins are efteemed a valuable fur, efpecially when caught in winter, and the flefl is reckoned very good. It procreates in March or April, and the female, after a month, brings forth from three or four to feven young ones, and breeds twice a year. In fpring the females are feen fkipping 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 Muftela and Viverra tribes, by ferpents, 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 reddinh brown, the under parts and legs white, and the tail dufky. Penn. hirt. of quad. n. $266 . \%$ Brit. Muf.

Inhabits Ceylon, according to the Catalogue in the Britifh Mufeum. - The head, whole upper part of the body, fides and toes, are reddinh brown; the face, nofe, underfide of the neck, infide of the ears, breaft, belly, fore legs, and infide of the hind thighs, are white; the tail is long, and covered with dulky lanir, which is much fhorter than in the common kind.

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. Pcnn. hift. of quad. n. 273. Arct. zool. n. 50.-Quahtechalotl thliltlic, Sciurus Mexicanus, or Mexican Squirrel. Hernand. mex. 582. Fernand. nev. hifp. 8.

## ß. White-nofed Black Squirrel.-Sc. niger albiroflro.

Has plain ears: Of a black colour marked with white on the nofe, neck, and extremio ty 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 fpecies, but has a fhorter tail; it lives in large troops, and makes terrible havock among the maize or Indian corn.

Of a white colour, with the throat, and infide of the legs and thighs black. Penn. litit. of quad. p. 4 II.
.Vox. I.

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\mathrm{Kk}
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Inhabits Virginia.-Grows to the fize of a fmall Rabbit; the fur is coarfe; the throat and infides: of the legs and thighs are black ; the tail is much fhorter than that of the Common Squirrel ; is of: a dull yellow colour, mixed with black, and reddifh at the tip, as are the ears.

Of a grey colour, with a white belly; and having plain ears. Erxleb. mam. 4I8. 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. Brifl. quad. 153.n. 6. Brown, Jamaica, 483.-Grey Squirrel. Catefby, Carol. ii. 74. t. 74. Penn. hift. of quad. n. ${ }^{2}{ }^{2}$ 2. pl. xlịi. 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 fmall Rabbit, of a dull grey colour, mixed with black, and often tinged with dirty yellow, having a long, bufby, grey tail, fripped with: black. This fpecies is very like the Common Squirrel, but larger, being a foot in length, and thicker made ; it builds its neft in the hollows of trees, and does great damage to the fields of Indian corn $_{8}$. infomuch that the government gives a premium for their deftruction; this, in one year, at Penfylvaniia, at three pence each, amounted to eight thoufand pounds currency; confequently 640,000 muft have been deftroyed that year. They form magazines under ground of provifions for winter, and, in Severe fnow florms, they are fometimes famifhed in vaft numbers, by having their accefs to thefe cuts 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-finake.

## 6. Labradore Squirrel.-5. Sciurus budfonius. 12.

Of a ferruginous colour along the back, the fides paler, and the belly afh colour mottled with black; the tail is like the back, but barred with black, and tipt with the. fame; the ears are plain. Penn. Lev. Mur.

Sciurus hudfonius, or Hudfon's Bay Squirrel, with plain ears, reddifh grey on the back, the belly afh colour, having a floortifk.tail of a reddifh grey colour, edged with black. Syft. nat. ed. Gmelin. 143. n. 12. Forfter, Phil. Tranf. lxii. 378. Pall. Glir. 377. Schreber, iv. 777.t. ccxiv.-Hudfon's Bay Squirrel. Penn. hift. of quad. n. 274. pl. xliii، f. I: Aret. zool. n. 48:

Inhabits the pine forefts in Labradore, and round Hudfon's Bay.-Is finaller than the Common Squirrel, and apt to vary in colour, efpecially to greyifh, which accounts for the difference between the defcription given by Mr Pennant from a fpecimen in the Leverian Mufeum, and that quoted byDr Gmelin from the Philofophical Tranfactions, though the latter author fays that it retains the fame colour throughout the year.
7. Carolina Squirrel.-6. Sciurus carolinenfis. I3.

Of a grey colour, mixed on the head, back, and fides, with white and ruft colour; the belly is white, divided from the fides by a rufty line; the tail is brown, mixed with black and edged with white; the ears are plain.

Carolina Squirrel. Penn. hift. of quad. n. 274. x.-Leffer grey Squirrel. Penn. fynopf. n. 209. $\alpha$

Inhabits Carolina.-This fpecies is lefs than the Common Squirrel, and, like the former, is apt to vary to a more complete grey.
8. Virginian Squirrel.-Sciurus virginianus.

Has coarfe fur of a mixed dirty white and black colour.
Cat Squirrel. Penn. Arct. zool. n. 49. 阝.
Inhebits Virginia.-This animal is about the fame fize with the Grey Squirrel, of which Mr Pennant fuppofes it to be a variety ; the tail is fhorter than in moft fpecies of the genus, and is of a dull yellow colour, mixed with black; the throat and infides of the legs and thighs are black.
9. Perfian Squirrel.-7. Sciurus perficus. 14.

Of a dark colour, with white fides and a yellow belly; the tail is black mixed with aft colour, and marked with a white ring ; the ears plain. S. G. Gmelin, It. iii. 379. t. 43.

Inhabits the high mountains of Hyrcania in Perfia.-This refembles the common fpecies in general appearance and manners, but differs in the colour, which is not fubject to variation: The foles of the feet are reddifh.
10. Georgian Squirrel.-8. Sciurus anomalus. I5.

Of a yellow colour mixed with dufky on the upper parts and tail; the under parts of a dull tawny; the ears plain and rounded. Guldenftaedt. Schreber, iv. 781. t. ccxv. C.

Inhabits Georgia in Afia.-This fpecies is larger than the Common Squirrel ; the circumference of the mouth is white, the tip of the nofe black, the cheeks tawny, the whifkers and region of the eyes dufky, and the ears flame yellow, whitifh within.
r1. 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 fharp pointed. Sparrman, Act. foc. Goth. i. 70. Schreber, iv. 781. t. ccxvi.

Javan Squirrel. Penn. hift. of quad. n. 269.
Inhabits the ifland of Java.-The body and head are about a foot long, and the tail of the fame length ; Mr Pennant adds, that the tail is tipt with black, and fays the under parts are of a light brown colour. The hind feet are black ; the claws of the fore fect are fharp, except the nail on the fifth toe; and the thumbs are very fhort.

Of a yellow colour, mixed with dufky, on the upper parts; the under parts blood red mixed with tawny; the tail of this laft colour, with a longitudinal blackifh fripe; and the ears flightly tufted at the edges. Pallas, Giir. 377 . Pemn. hift. of quad. n. 27 I .

Inhabits India. - Is rather larger than the Common Squirrcl; 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. cexvii.

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 ifland of Ceylon.-This fpecies is three times the fize of the Common Squirrel. Thecars are tufted with black hairs; the fore-head, back, fides, and haunches are black; the legs and belly yellow; the cheeks are yellow, marked with a bifurcated black froke, and red at their lowerparts; and between the ears is a yellow fpot: The tail is twice as long as the body, of a light grey colour, and very bufhy; the root being furrounded with hair;, while that on the reft lies flat, and feparates fideways.
14. Malabar Squirrel.-12. Sciurus maximits. Ig.

Of a red brown colour on the upper parts, the under parts and tail black; the ears nightly tufted. Schreber, iv. 784. t. ccxvii. B.
Large Malabar Squirrel. Sonneret, voy. ii. I 39. t. 8.7.
Inhabits the Malabar coaft, and the province of Mahe in India.-This fpecies is about the fize of a. large Cat ; has fmall crect ears, long hair, ftrong black claws, and a very fmall protuberance, in place of the thumb, or fifth toe, on the fore paws, provided with a flat nail: It feeds chiefly on the milk. of the Coccoa nut; and has a loud fonorous voice. Dr Gmelin is uncertain whether this be a diftinct fpecics, or only a variety of the laft.

Of a ruty black colour on the back, the fore feet and belly grey; the tail a foot anc: a half long. Thevenot, It. v. 34. Penn. hift. of quad. n. 268.

Is faid to inhabit Abyfinia.-This animal is but obfcurely known; it was purchafed by Therenot, at Moco in Arabia, from an Abyfinian; it is thrice the fize of the common fpecies, and the nofe and foles of the feet are flefh coloured; it was good natured and fportive, eat of every thing but flefh, and cracked the hardeft almonds. This animal is probably, like the former, a variety of the Longtailed or Ceyion fpecies.

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, hiit. of quad. n. 270.

Inhabits India near Bombay.-The heal, 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 meafure fixteen, and the tail feventeen inches. This fpecies is defcribed, by Mr Pennant, from a feuffed fpecimen in Dr Hunter's mufeum.

## 17. Fair Squirrel.-i5. Sciurus flavus. 4.

Of a flaxen or pale yellowifh colour, with plain rounded ears, and a round tail.
Squirrel, with a round tail, fhort hair, and roundifh ears. Amoen. acad. i. 28 I. Syft. nat. ed. xii. 86.-Fair Squirrel. Penn. hift. 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 fmall fize, not above half as big. as the common fpecies; the fur is yellowifh, with white tips to the hairs; the fore feet have each a very fmall claw, or nail, inftead of a thumb or fifth toe: It is very agile in leaping about from one tree to another. Dr Gmelin doubts if this animal fhould be confidered as belonging to the genus; but gives no opinion of what other genus it fhould be referred to

Of a mixed black and red colour, with three longitudinal yellow ftripes on the back and fides; the tail is encircled with coarfe dirty yellow hair, and is barred with black. Schreber, iv. 802. t. ccxx.

Sciurus palmaram, Mus palmarum, Palm Squirrel, or Palm Moufe, of a mixed red and black. colour, having yellow longitudinal fripes on the back. Briff. quad. i56. n. 10.-Muftela africana, or African Weafel. Cluf. exat. 112. Nieremb. hift. nat. I72. Jonft. q̧uad. 153. Raj. quad. 216 .Palinifte, or Palm Squirrel. Sm. Buff. v. 328. pl. cxliv.-Palm Squirrel. Penn. hift. of quad.. n. 279 .

Inhabits the hotter regions of Afia and Africa.-This fpecies lives much on the Coccoa trees, feed.. ing on the nuts, and is very fond of the Sury, or palm wine, which is made from that tree; from which circumftance the Dutch in India give it the name of Surifcatsjie *, or Little Cat of the Sury. This is a very finall animal, fcarcely three inches in length; the tail is much of the fame length, and.

* Under this name, or one very nearly refembling it, we have already defrribed an animal of the: genus Viverra, or Fitchet, the Surikate, or Viverra fentadacthla; the Englifh name of that fpecies, ured in this publication, is adopted from Buffon, though it appears from the above circumftance, recorded by Mr Pennant, on the authority of Governor Loten, that the name Surikate, which is evidently a cor. ruption of Surifcatsjie, fhould more properly be applied to the Palm Squirrel; but, as it las becomefamiliar to Englifh readers in the works of Buffon, it is allowed to remain -T. To.
is carried erect, but does not fhade the back; the ears are fhort, broad, not tufted, but fringed with hair at the edges; an obfcure palc yellow ftripe runs along the back, one fimilar on each fide, and other two, one on each fide, lower down, but thefe are at times fo very faint as to be fcarce perceptible ; the hair on the head, back, and fides, is of an intimately mixed black and red, on the thighs and legs it is redder, and on the belly pale yellow. Clufius, and Mr Ray, following him, alledge that, though the hair in general encircles the tail, the animal has the power of expanding it fideways.

19. Barbary Squirrel.-17. Sciurus getulus. 6.

Of a reddifh afh colour on the upper parts of the body, with two longitudinal white ftripes on each fide. 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. in. Aldrov. dig. 405. f. p. 406. Gefn. quad. if2. 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. 33 r . 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, meafuring five inches long: The belly is white ; the tail is bufty, and regularly marked with alternate fhades of black and reddifh aft colour; the fore paws have only four toes, with no weftige of a thumb, and all the claws are black.

## 20. Plantane Squirrel.-Sciurus Badjing.

Of a pale red chefnut colour, with a yellow ftripe along each fide. Penn. hift. of quad. 11. 280 . $\%$

Inhabits Java and Prince's ifland.-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 fhy, and, on the approach of mankind, runs off, making a vaft pattcring over the dry leaves of thefe trecs. Mr Pennant confiders it as a variety of the Palm Squire rel.

## 21. Ground Squirrel.-18. Sciurus Jriatus. 7o

Of a yellowifh colour, with five longitudinal dark ftripes.
Striped Dormoufe. Penn. hift. of quad. n. 286. Arct. zool. n. 54.

Of a fmaller fize than the next variety.
Sciurus ftriatus, or Striped Squirrel. Pallas, Glir. 378. Georgi, It. i. 163.-Sciurus major variegatus, Larger variegated Squirrel, or Furunculus fciuroides, of Mefferfchmidt. J. G. Gmelin. Nov. com. Petrop. 『. 344. t. 9.--Bomdoeßkje. Le Brun, It. 432. t. 254.
ß. American Ground Squirrel.-18. ß. Sc. Ar. americanus.
Of a pale colour, with four dufky fripes on the fides. Muf. ad. Fr. i. 8. Schreber, iv. 790: t. ccxix.

Sciurus carolinenfis rufus, or Reddifh Carolina Squirrel, having longitudinal black fripes alternating with whitifh yellow ones, on the back and fides. Briff. quad. 155.n. 9.-Lyfter's Squirrel. Raj. quad. 216.-Ground Squirrel. Lawfon, Carol. 124. Catefby, Carol. ii. 75. t. 75. Bricknell, Carol. 129. Edw. av. iv. t. 18 1. - Roeffelvifsla. Kalm, It. ii. 419.-Ecureil Suiffe. 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 IJama rivers eaftwards. It lives chiefly on the feeds of trees, efpecially thofe of the Pinus cembra; and is about five inches and a half long. The American variety inhabits the lefs frigid regions of North Anierica, as far as New Spain.-It dwells moftly in the woods, but never afcends trees unlefs when it cannot otherwife efcape from purfuit; it forms burrows under ground in the fame manner with the Hamfter, and, like that animal, is provided with pouches in the cheeks; in thefe burrows, which are formed with great ingenuity, having long branched galleries leading to feveral apartments, it fores up provifions for winter, placing Maize, Acorns, Hickery nuts, Chinquapin chefnuts, and other articles, all in feparate chambers. It lives moftly on grain, and is very deftructive to corn fields; bites feverely, is very wild, and can fcarcely be tamed. This variety is fomewhat longer than the Afiatic, being near fix inches long from the frout to the origin of the tail.

- The head of the Ground Squirrel is more lengthened than that of the other fpecies; the ears are naked, rounded, and very fhort; the body thin and lengthened; the legs and feet are fhort; the fur is fhort and harfh. That defcribed by Mr Pennant, from a fpecimen in the Leverian Mufeum, is the American variety; the head, body, and tail are of a reddifh brown colour; the back is marked with a longitudinal black ftripe, each fide with a pale yellow ftripe, bounded both above and below by a black line; the breaft and belly are white; the nofe and feet pale red; and the cyes are large and full: If the winter fores in its holes happen to fail, it digs into cellars for apples, and inta barns for corn, doing a great deal of mifchief; it is hunted after by cats with great avidity.


### 2.2. Brafilian Squirrel.-19. Sciurus aeftuans. 9.

Of a dufly colour tinged with yellowifly on the upper parts of the body; the infide of the legs and belly yellow; with a white ftripe 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.

## B. Striped Brafilian Squirrel.-Sc. aeft. fafciatus.

Of a mixed dufky and yellow colour, with white ftripes on the fides, and a black tail. Briff. quad. 154. n. 7.

Inhabits Brafil and Guiana.-The ears are plain and roundifh ; the fur is foft ; the head and bo-dy meafure fomewhat more than eight inches, and the tail ten.

## 23. Carnatic Squirrel.-20. Sciurus dfchinfchicus. 22.

Of a brick-dunt red colour, with white fripes on the fides, and white orbits; having a black tail. Sonneret, It. ii. i40.

Inhabits the province of Dfchinfçi * in India.-This fpecies is larger than the Common Squir. rel.
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. 42 1. Schreber, iv. 789. t. ccxviii.
Quauhtecallotlquapachtli, ur Coztiocotequallin. Fernand. nov. Hifp. 9.-Coquallin, or Varied Squirrel. Sm. Buff. vii. i 7 б. 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 fhort and plain, and, with the circumference of the mouth, are white; the whikecrs and claws are black.

## ß. Smaller Varied Squirrel.-Sciurus variegatus minor.

Mr Pemnant informs us that he has feen a variety of this fpecies, not larger than the Common Squir rel, the fur of which on the upper parts of the body was brown, orange, and afh coloured, with an orange coloured belly.

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\text { 25. Chilefe Squirrel.-22. Sciurus Degus. } 24 \text {. }
$$

Of a dufky yellow colour, with a black line on the fhoulders. Molina, hift. nat. Chils 269.

Inhabits Chili.-This fpecies dwells in large focieties, burrowing under ground, and feeding on roots and fruits, of which it lays up magazines for winter provifion. It refembles the White Dormoufe, but does not become torpid in winter ; in fize it is rather larger than the Black Rat, having a fhort head and fharp fnout; the ears are rounded; the tail is bufhy at the end, and is of the fame colour with the body. The flefh is eaten by fome of the natives.

Of a dufky afl, or moufe-colour, with five or feven longitudinal white ftripes along the back and tail. Erxleb. mam. 428. n. 12.

Sciurus novae hifpaniae, or Squirrel of New Spain, of a dulky afh colour marked with white fripes on the back. Briff. quad. 154. n. 8.-Sciurus rariffimus, or Rare Squirrel, from New Spain, ftriped

* It is difficult to guefs what part of India is meant by this, unlefs Gingee in the Carnatic, the fpelling bsing taken from the found, as pronounced in the German language.-T.
ffriped with white. Seba, Muff. i. 76. t. 47. f. 2. 3.-Tlamototli. Fcrnand. nov. hifp. 9.-Mexican
Squirrel. Penn. hift. of quad. n. 278 .
Inhabits Mexico and New Spain.-The male has feven white lines along the back, and the female only five: The fcrotum of the male is large and pendulous. This fpecies is not quite fix inches long, and the tail is fomewhat longer ; the ears are naked at the edges.


## 27. American Squirrel.-Sciurus fcrotalis.

Of an uniform colour, with a large pendulous fcrotum. Seba, Muf. i. 76. t. xlviii. f. ${ }^{2}$. Penn. hift. 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 yellowifh brown colour on the upper parts; the fides and belly white; the tail very long, hairy, and fpotted. Bancroft, Guiana.

Inhabits Guianá.-This animal refembles the Common Squirrel in fize and general appearance.

## 29. Guiana Squirrel.-Sciurus guajanenfis.

Of a fmall fize and reddifh colour. De la Borde, voy.
Inhabits Cayenne. - This animal is fierce, and bites feverely, in its natural fate, yet may catily 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. Thefe two laft animals are but obfcurely known, and are mentioned by Dr Gmelin only in a note, leaving it to future inquiry to determine more precifely their place in fyftem, and to defcribe more accurately their manners and external marks.

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. I 37. t. 86.

- Inhabits the eaftern fide of the ifland of Madagafcar.-This anmal is rather doubtful in its nature; in the flownefs of its pace, and general manners, it refembles 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 gronnd; is flothful, timid, and feeps 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 garnifhed with bunches of hair above the eyes, on the nofe, and cheeks, and under the chin; the fur is of two forts,

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an under downy fleece, like wool, of a whitifh or pale tawny, with longer fraight black hairs intermixed ; the face and throat being of a pale whitifh tawny colour; the tail is flattened, and about eighteen inches long, covered with thick fet white hair from the bafe to the middle, and the reft black; the toes on the fore paws are all long, and four of the claws on the hind feet are hooked and fharp pointed.

## 31. Cape Squirrel.-Sciurus capenfis.

Of a pale ferruginous colour on the upper parts of the body, mixed with black; with a white line from the fhoulder along each fide; the tail is black in the middle and hoary at the fides; the ears are fcarcely apparent.

Earlefs Dormoufe. Penn. hift. of quad. n. 290.
Inhabits near the mountain of Sneeberg, eight hundred miles north from the Cape of Good Hope. This feecies never climbs trees, but burrows in the ground, forming a warm nef, with a round hole, in which it lodges, clofing up the orifice; it feeds on bulbous roots, efpecially 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 nofe, full black eyes, divided upper lip, and long whifkers; 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 flyingo.

Of a brownifh afh colour on the upper parts, the belly white tinged with yellow; the tail is flattened, broadeft at the middle, and ends in a point. Penn. hift. of quad. n. 283. Arč. zool. n. $5^{1 .}$
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 Smalleft 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 Moufe. Syft. nat. ed. xii. p. 75. n. 21. Muf. ad Fr. ii. ro.-Quimichpatlan. Fernand. nov. hifp. 8.-Flying Squirrel. Catefby, Carol. ii. 76. t. 77. Edw. av. iv. t. 191. Sm. Buff. v. 309. Du Pratz, Louifiana, ii. 98. Kalm, It. i. 321. t. 1.-Affapanick. Smith, Virgin. 27. Jocelyn, voy. 86. De Laet. 88. Lawfon. virgin. 124.

## Inhabits

* In the Naturalin's Mifcellany, Dr Shaw very properly difinguifhes thefe animals, and the flying Macauco, or Colugo, into a particular genus, under the name of Petaurus, which is bere adopted infiead of Sciuri volantes, employed by Linnaeus and Gmelin.-T.

Inhabits the temperate and warmer parts of North Ancrica.-Lives in focieties in the woods, fec.iing on fruits and feeds, which it goes in queft of chiefly in the evening and night, and during the day fleeps almoft conttantly in its neft, which is formed of leaves. This fpecics, which is very eafily and completely tamed, is about five inches long from nofe to rump, with a round tail about an incl fhortcr ; the head is thickifh, with large, prominent, black eves; roundifh, tranfparent, almoft naked cars, of a brownifh afh colour ; the whikers are black and longer than the head; the neck fhort. The fur is very fine and foft, of an ath colour on the upper parts of the body, with white tips; on the lower parts white in the middle of the belly, and afh 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 wrift, and helps to ftetch it out in flying; and on the hind legs it extends to the ankles. By means of this membrane, when the fore and hind legs are ftretched out, the animal is enabled to fupport itfelf in the air, as if flying, for a confiderable way; and fwims nearly in the fame manner.

> 2. Virginian Fiying-Squirrel.-S. Petaurus virginianus.

Of a reddifh colour on the upper, and yellowith ath on the lower, parts of the body; the lateral membrane involving the chin and ears.
 rel. Penn. hift. of quad. n. 284. Arct. zool. 11. 52.

Inhabits Virginia.-The ears are large and oval ; the lateral membranes begin at the c.a... proceeding 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 budfonius. 27.

Of a reddifh brown colour on the upper parts of the body; the under parts of a yel. lowifh white; the tail hairy and flattened.
Sciurus volans major, or Larger Flying Squirrel. Pallas, Glir. 354. Forfter, Phil. Třanf. lxii. 379. - Severn river Flying Squirreh Penn. hift. of quad. n. 282. Muf. Roy. Soc. Arct. zool, 11. 53.-Sciurus hudfonius, or Hudfon's Bay Squirrel. Syft. nat. ed. Gmel. i. 153. n. 27 .

Inhábits 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 ath coloured, and the tips reddifh 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. $8 \mathrm{I}_{3}$. t. ccxxiiis. Pemn. hift. of quad. n. 285 . Art. zool. i. 124. B. Lev. Muf.
Sciurus volitans, or Flying Squirrel with broad membranes. Faun. Suec. ii. I3. n. $3^{8}$. Mufo ack. Fr. i. 8.-Sciurus volans, or Flying Squirrel, of a dark afl colour. Briff. quad. 157. n. 12.-

Sciurus volans fibiricus, or Siberian Flying Squirrel, of a pale afh colour. D ${ }^{\circ}$. 159. n. 13.-Sciurus volans, or Flying Squirrel. Rzaczinki, Polon. 316. Klein, Ph. Tranf. r 733, t. 35. f. 1. Seba, Muf. i. 67. t. 4 I. f. 3. Pallas, Glir. 355.-Sciurus petaurifta volans. Klein. quad. 24.-Sciurus, fo Mus fcythicus, Mus ponticus, Scythian or Pontic Moufe, or Squirrel, known by the name of Flying, which might be called Sciurus latus, or Broad Squirrel, on account of its extended fides. Gefn. quad. 743.- Quadrupes volatile, or Flying quadruped, from Ruffia. Duvernoi, Com. Petrop. v. 218.-Poulatouche, or Smaller Flying Squirrel. Sm. Buff. v. 305. pl. cxxxix. when collapfed, and cxl. when extended. -Sciurus volans. Syft. nat. ed. Gmel. i. I54. n. io.

Inhabits Siberia in great numbers, and more rarely in Lapland, Livonia, and Poland.-Lives muchr in beech woods, feeding on the buds, catkins, and tender twigs of the beech trees. Except in the feafon of love, this fpecies lives in a folitary manner, wandering about even in the milder days, and middle of the day, in winter; it forms a neft of mofs in the hollows of trees: It is a fierce, and feverely biting animal, which can hardly be tamed; by means of the membrane, which extends to the rery bafe of the fore feet, and forms a large projecting wing on each fide; it is capable of making furprifing 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 reft, keeps over the back, like the common fe-cies. According to the celebrated Pallas, this fpecies is larger than the American Flying Squirrel, yet the individual defcribed by Mr Pennant is fomewhat lefs, fo that we-nuft conclude, that both kinds vary in fize; its colour does not incline to yellowifh, but is of a whitifh ruffet on the upper parts, and pure white on the belly and under parts of the body; the head is florter and more rounded than in the American fpecies; the tail is fhorter, and contains fewer vertebrae, is fcarcely at all fhaded with dufky on its upper part, and is not more than half the length of the body; the eyes areplaced nearer to the nofe, and are furrounded with a darker circle; the fore legs are florter, and the hind legs are longer, efpecially the fecond joint or tibia.

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 fagita, or Arrow Squirrel. Syft. nat. ed. Gmel. i. 154.11. I I .
Inhabits Java.-Is about the fize of the Common Squirrel, having an. oval head, with oval, blunt, bairy ears, whifkers as long as the head, and one briftle on each cheek; the upper lip is divided, and: the lower very flort ; the teetl are brown, and rather blunt: 'The feet are of a dull reddifh colour; the fore fect have each four, and the hind feet five toes; all the toes having the foremoft joint very prominent, and are furnifhed with claws which are comprefied fideways; the fore feet are furnifhed. with a long cartilaginous or briftly fpur, as long as the fore-arm, within the membrane, which it affifts. to expand ; the hind legs are fringed with hair behind ; the fcrotum is large, egg-fhaped, and hairy, and the prepuce is long and hairy. The membrane extends from the head, includes the fore legs to: the wrifts, and as far as the knees only of the hind legs; is of the fame colour with the body, and is fringed at the edges.

## 6. Indian Flying-Squirrel.-2g. S. Petaurus Petaurifa. 28.

The tail is longer than the body, flattened, and very full of long hair. Schreber, iv, t. ccxxiv.

Sciurus maximus volans; Felis volans, Largeft Flying SquirreI, or Flying Cat. Brifi. quad. if2. n. 15.-Civetta volans, or Flying Civet. Valent. Ind. iii. 269. 270.-Taguan, or Great Flying Squirrel. Sm. Buff.v. 3 12. 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, voy. ii. 13 r.-Sciurus Petaurifta, Syft. nat. ed. Gmel. i. 155. n. 28.-Taguan. hift. gen. des vog. xv. lib. 4. c. 9. p. 5 I.

Of a very bright chefnut colour on the upper parts of the body; the under parts pale ferruginous. Pallas, Mifcel. zool. 54 .t. t. vi. f. I.

## B. Black Indian Flying-Squirrel.-S. Pet. Petaurifa niger.

Of a black colour on the upper, and hoary on the under parts of the body. Pallas, Mifcel. zool. 54. t. vi. f. 2.

Inhabits the iflands of the Indian Ocean.-This fpecies is greatly larger than the other animals of this divifion, being a foot and a half long from nofe to rump; the head is rounded; the whikers and claws are black; the female has fix teats on the breaft and belly; and the eyes have long narrow pupils like thofe of the Cat.

Of a dufky blackih brown colour above, and whitih below, having rounded thumbs on the hind feet, and a long bufhy tail, with large ears.

Petaurus auftralis, Southern Petaurus. Nat. mifc. pl. 60.-Hepoona-roo. White, voy..to Botany. Bay.

Inhabits New-South-Wales.-This is the largeft and moft elegant of all the Flying Squirrels; its; moft remarkable characteriftic is the rounded thumbs, or great toes, of the hind feet, which are furnifhed with a flattened nail, while all the other toes, five to each foot, have fharp hooked claws; the two toes next this thumb are united together by the fkin, but have feparate claws; the colour is a fine fable, or deep grey brown on the upper parts, darkelt on the middle of the back, and the under parts are nearly white ; the edges of the membrane are fomewhat fcalloped, and of a lighter colour ; the fur is exquifitely foft and beautiful; the tail is long, and thickly clothed with very foft loofe hair, longeft towards the outer end; the ears are longifh, and there is a black itreak over each eve.

## 8. Phillips Flying-Squirrel.-S. Petaurus norfolcenfis.

Of a dark grey colour on the upper, and white on the under parts, with a dufky black line along the back from nofe to tail; a long bufhy tail, and fhort ears.

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\text { Norfoll-Ifland Flying Squirrel. Phiilips, voy. to New South Wales, } 15 \text { I. and pl. }
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Inhabits Norfolk illand, off the coaft 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 rifes on each fide of the head near the noftrils, and, paffing over the eyes, finithes above the ears; the ears are very thort, fcarcely rifing above the fur; the firft twothirds of the tail are afh coloured, paler than the body, the outer third is a dufky black; each fore paw has five hooked claws, but thofe of the hind feet are uncertain, as the fpecimen brought to England wanted the hind legs.

## XXIX. D ORMOUSE.-28.MYOXUS.

## Has two fore-teeth in each jaw; the upper ones wedge-like, and thofe below compreffed fidewife. 'The muzzle is garnifhed with long whifkers. 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, ufing the foles of the feet as far as the heel, and fpring three or four feet at a bound, in which they are affifted by their long ftiff tails. They form holes, or burrows, under ground, in which they remain torpid in winter, and in fummer they fleep moft of the day, going out only at night, and feed entirely on regetable food. They eat in a fitting pofture, carrying their food in their fore paws; and when thirfty, they dip their fore feet, with the toes bent, into water, and carry it to their mouth.

Of a hoary or pale afh colour on the upper, and whitifh on the under parts of the body; the tail full of long hair. Schreber, iv. t. ccxxv.

Sciurus canus, or Hoary Squirrel, with a whitifh belly. Syft. nat. ed. xii. i. 87. Erxleb. mam. 429.-Sciurus epilepticus. Klein, quad. 54.-Mus cauda pilofa. Brif. quad. 160.-Mus Glis. Pallas, Glir. 88. n. 33.-Glis. Gefn. quad. 6ıg. Aldrov. dig. 407 . f. p. 409. Jonft. quad. 164. t. 67. Raj. quad. 229.… Loir, or Fat Squirrel. Sm. Buff. iv. 325 . pl. xciv. f. I. Penn. fynopi. 23. 217. -Fat Dormoufe. Penn. hift. of quad. n. 287.

Inhabits France and the fouth of Europe, and in the fouth-weft of Ruffia, about the Volga and Sa-mara.-This animal is the Eneres of Ariftotle, Muogos of Oppian, and Glis of Pliny; it was held in great efteem among the Romans, as a luxurious delicacy; they wcre fed in places called gliviaria, conftructed for the purpofe, and they are ftill eaten by the modern Italians. It forms a neft in the hollow of fome tree, in which it fleeps all day; feeds in the night on nuts, walnuts, the feeds of apples, \&c. and grows very fat in autumn: About the month of October they gather in troops, and, retiring into fubterranean 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 fix inches long from nofe to rump, and the tail five; the ears are thin and naked; the cheeks are white; and the whikers are long: The female has ten teats, fix of which are fituated on the breaft, and four on the belly; and fle brings from nine to twelve young ones at a litter.

## 2. Wood Dormoufe.-2. Myoxus Dryas. 2.

Of a reddifh 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 acrols the eyes. Schreber, iv. t. cexxv. B.

Inhabits Europe.-This fpecies, or rather variety, only differs from the following, in colour, in having a fhorter and more buflhy tail, and in the want of the black fpots near the ears: They are, how, ever, plàced by Dr Gmelin as diftinct fpecies.

## 3. Garden Dormoufe.-3. Myoxus Nitela. 3.

Of a tawny colour on the upper, and whitifh afh, tinged yellow, on the under parts of. the body; having a black circle round each eye, and a.black fpot behind each ear. Schreber, iv. t. ccxxvi.

Mus quercinus, or Oak Moufe, having a long hairy tail, and a black fpot under each eye. Syft. nat. ed. xii. i. 84. n. 15.-Mus nitedula, or Bright-yellow Moufe. Pallas, Glir. 88. n. $3^{2}$.M. avellanarum, or Filbert Moufe. Gefn. quad. 833. Jonft. quad. 168. t. 66.-M. avellan. major, or Larger Filbert Moufe. Aldrov. dig. 439. Raj. quad. 419.-Sciurus canus, or Hoary Squirrel, with a whitifh belly; and a black fpot under each eye. Erxleb. mam. 432. n. I5.-Glis, or Dormoufe, of a dull afh colour on the upper, and whitifh afh colour on the under parts of the body, with a black fpot at each eye. Briff. quad. 161.-Lerot, or Garden Squirrel. Sm. Buff. iv. 332.: pl. xciv. f. 2. Penn. fynopf. n. 218.-Garden Dormoufe. Penn. hif. of quad. n. 288.
Inhabits the fouth parts of Europe and Ruffia.-This animal infefts gardens, and is very deftruc-u tive to all kinds of fruit, efpecially peaches; makes a neft in the hollows of trees and holes of walls, and is often found in Magpies nefts; it fmells rank like a Rat. The body and head meafure fie inches long, and the tail four; the eyes are black and full, and are furrounded with a large black foot which reaches to the bafe of the ears; the ears are oblong; the tail is furrounded with fhort hairs for more than half its length, and grows bufhy at the end. It procreates in fring, and the female. produces five or fix young ones in fummer.

Of a tawny red colour, with a whitifh throat; the thumbs or inner toes of the hind feet having no claws. Schreber, iv. t. cexxvii.

Sciurus avellanarius, or Filbert Squirrel. Erxleb. mam. 433. n. 16.-Mus avellanarius, or Filbert Moufe, of a reddifh colour with a whitifh throat, having a long hairy tail, and the inner toes of the hind feet without claws. Syft. nat. ed. xii. i. 83. n. I4. Faun. Suec. 35. Pallas, Glir. 89. n. 34.-Mus avellanarum minor, or Leffer Filbert Moufe. Raj. quad. 220. Jonit. quad. 168. Aldrov. dig. 439.-Múfcardin, Dormoufe, or Sleeper. Sm. Buff. iv. 336. pl. xcv. Edw. av. t. 266. Penn. Synopf. n 219. Lever. Muf. Brit. zool. i. 95--Common Dormoufe. Penn. hif. of quad. n. 289. Arct. zool. 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 bufh; 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 fummer, but fometimes revives in a warm day, takes a little food, and relapfes again. It is about the fize of a Moufe, but plumper, being about three inches long, and the tail, which is furrounded with fhort hairs and bufhy at the end, is two inches and a half long; the ears are fhort, round, thin, and naked; the eyes are large, black, and prominent. It fits up on its hind legs when eating, ufing its fore paws to carry its food, and conceals what it cannot ufe; the female 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 fhort, and the hind legs exceffively long. The tail is long, and is tufted at the end.

The remarkable characteriftic of this genus is the enormous length of the hind feet, and extreme fhortnefs of the fore paws; from this conformation, inftead of walking or running on all fours, they leap, or hop, on the hind feet like birds, making prodigious bounds, and only ufe the fore paws for burrowing, or for carrying their food to the mouth, like Squirrels. From this peculiarity of conformation the Kanguru, G. xix. fp. I5. and Phillip’s Opoffum, fp. i6. of the fame genus, ought to have been arranged with this genus of the Jerboa, but, from a rigid adherence to artificial fyftem, they are by Dr Gmelin ranked with the genus Opoffum, on account of the number and arrangement of their teeth.

1. Common Jerboa.-1. Dipus jaculus. I.

Has four toes on all the feet, and a claw in place of a thumb, or fifth toe, on each fore foct. Sclireber, iv, t. ccxsviii.

Mus jaculus, or Leaping Moufe, with a long tail tufted at the end, four toes, and the rudiments of a fifth, on each fore foot, very long hind legs, and very fhort fore legs. Syft. nat. ed. xii. 1. 85 . n. 20. Muf. ad. Fr. ii. 9. Forkal, Faun. orient. 4. Haffelq. It. 198. Act. Stock. 1752, 123.t.4. f. i. Act. Upf. $175^{\circ}$, 17. Pallas, Glir. 87. n. 27. t. xx. Gefn. quad. 837.-Mus montanus. Moncon.死gypt. 288.-Cuniculus pumilio faliens, or Dwarf Leaping Coney, with a very long tail. J. G. Gmel. Nov. com. Petrop. 17 60, v. $35^{\text {I. t. 9. f. I. Muf. Petrop. i. } 344 \text {. n. 123.-Lepus, S. Cuni- }}$ culus indicus, Indian Coney, or Hare, named Utias. Aldrov. dig. 395.-Jerboa, Gerboa, Daman Ifrael, Agnus filiorum ifrael, or Lamb of the children of Ifrael. Profp. Alp. IEgypt. 232. Shaw, trav. 248. 376.-Egyptian, and Siberian Jerboa. Penn. hift. of quad. n. 291. and 292.-Jerboa, Gerboife, or Yerboa, and Alagtaga. Sm. Buff. vii. 201. and 202.-Jerboa. Bruce, Abyfin. v. 121. and fig.-Lepus longicaudatus, or Long-tailed Hare. Syft. nat. ed. ix. n. 4.-Erdhaufe. S. G. Gmelin, It. i. 26. t. 2.

Inhabits Egypt, Arabia, Caimuck Tartary, and fouthern Siberia.- Frequents firm, hard ground, and fields covered with grafs and herbs; forms burrows of feveral yards long in a winding direction, leading to a large chamber about half a yard below the furface; from this a fccond paffage is dug to within a very little way of the furface, by which they can efcape when threatened with danger. When at reft they fit with their hind legs bent under their belly, and keep the fore legs fo near the throat as hardly to be perceptible. They are not much afraid of mankind, and yet can fcarce be thorouglaly tamed ; they feed on roots, grafs, wheat, and other grains; and it is certain that thofe which inlabit Siberia cut grafs before winter, which, having dried, they collect into roundifh heaps, and carry into their holes, to ferve as winter provifion. The flefh is eaten by the Calmucks and Arabs. The body is fomewhat more than feven 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 laft quarter is tufted with long hair difpofed flat like that of the Squirrel, the firt half of the tuft 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 flefh coloured; the female has eight diftantly placed teats.

## 2. Arabian Jerboa.-2. Dìpus 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. to xxi. Do. Its ii. 706.
Inhabits Arabia, and near the Irtifi in Siberia.-This animal frequents fandy plains; it is only about fix inches long, and the tail, which is fcarcely fo long as the body, is terminated with a finaller tuft than that of the preceding animal; the thighs are likewife thinner and lefs flefhy, and the foles of the hind feet and boitom 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 Mvs $\delta i \pi s$ s of the Greeks, and Mus bipes of the Roman writers. In the account of thefe two fpecies, I have implicitly followed Dr Gmelin, without endeavouring to reconcile the difcrepancies between him and Mr Pennant, becaufe even that celebrated naturaliff feens not perfectly clear in his fubdivifion of the genus, fo far as thefe laft mentioned animals, the Egyptian, Siberian, and Arabian Jerboas, are concerned : That there are diftinctions fufficient, at leaft, for efta-
blifhing different varieties, is evident from Pennant's account; and the difference of country between Egypt, Syria, Arabia, Barbary, and Ethiopia, on the one hand, and Siberia, or North-eaft Afia, on the other, renders it highly improbable that the fame animals fhould inhabit thefe diffant regions, without being found in the intervening country. Without, however, endeavouring to fettle the point, I have fubjoined an abftract of Mr Pennant's divifion.-T.

## A. Egyptian Jerboa.-Dipus aegyptius.

Has three toes only on the hind feet; and four toes, with a fcarcely apparent thumb or fifth toe, furnifhed with a claw, on the fore paws. Penn. hift. of quad. n. 29r. pl. xlii. f. 3 .

This animal Mr Pennant fuppofes to be the Mus bipes of the ancients, Mus fagitta of Pallas, ferbo of Buffon, and Daman Ifrael of the Arabs. He fays, that it inhabits Egypt, Barbary, Paleftine, the deferts between Bafora and Aleppo, the fandy tracts between the Don and Volga, and the hills foutlr of the Irtifh. The fore part of the body is thin and flattened at the fides; the hinder parts large and fwelling; the upper parts of the body and head are covered with long foft hair, of an afh colour at the roots, and pale tawny at the ends; the breaft and belly are whitifh; and an obfcure dufky. band crofies the upper parts of the thighs.

## B. Siberian Jerboa.-Dipus fibericus.

Has three toes on the hind feet, and two fpurious toes fome way up the legs; five toes: - on the fore feet, the thumb, or fifth toe, having no nail. Penn. hift. of quad. n. 292.

Mus faliens. Nat. mifc. pl. $3^{8 .}$
This fpecies feeds much on the bulbs of the Lilium pomponii, and twigs of the Robinia carugna, is eafily tamed, and, when in confinement, will eat raw flefh and fowls guts. It is divided into the: following varieties by the fame great naturalift:
a. Great Siberian Jerboa,-D. fibiricus major.

Is eight inches and a half long, and the tail ten. Penn. hift. of quad. n. 292. o. pl. xlv..
The nofe 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 foft hair of a dark grey colour at the roots, and tawny at the ends ; the breaft, belly, and legs, are white. This variety is frequent, but chiefly frequents the country between the Cafpian and the river Irtifh.

## b. Middle Siberian Jerboa.-D. fibiricus medius.

About the fize of a Rat, and of the fame colour with the former, having a white line acrofs the top of each thigh. Penn. hift. of quad. n. 292. $\beta$.
c. Smaller Siberian Jerboa.-D. fibiricus minor.

Of the fame fize and colour with the former, but having a more lengthened nofe. Penn. hift. of quad. P. 429.

The ears are fhorter and broader; the tail is thicker, and not fo handfomely tufted; the hint 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 ; alfo in Barbary, Syria, and India.

## d. Pigmy Siberian Jerboa.-D. fibiricus pumilio.

Is far fimaller than the two former varieties. Penn. hift. of quad. n. 292. $\gamma$.
It refembles the firft variety, a. ; only that it wants the white circle on the nofe ; the tuft on the tail is finaller, and is barely tipt with white.-This variety inhabits the fame places with the firft, 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. Forfter, and Sparrman, Act. Stock. 1778, ii. n. 3. and 4.'t. 3. Miiller on var. fubj. t. xxxi. A. B.-Grand Gerboa. Allamand, in ed. Buff. Hol. xv. 118. Journal Hiftor. 59.-Cape Jerboa. Penn. hift. of quad. n. 293.

Inhabits the Cape of Good Hope.-This fpecies is larger than any of the former, being fourteen inches long, the tail fifteen, and the ears three. On the upper parts of the body it is of a bright chefnut colour, interfperfed with long hairs, having black tips; the lower parts are yellowifh white; the head is more oblong than in the former fpecies, the fnout fharper, the ears longer, and the claws, efpecially 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 ftrong, and leaps twenty or thirty feet at one bound; it'burrows with its fore feet; it fleeps fitting on its hind legs, with the knees feparated, the head between the hind legs, and holding its ears with the forc paws over its eycs. 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.

Has five toes behind, and three before, with the rudiments of a thumb or inner toe. Schreber, iv. t. ccxaxi.

Mus longipes, or Long-legged Moufe, having five toes behind, four before, very long hind legs, and a long hairy tail. Syft. nat. ed, xii. i. 84. n. 19. Palias, Glir. 88. n. 30. t. xviii. B. Mur. ad Fr. i. 9.-Mus meridianus, or Southern Moufe. Pallas, It. ii. 702.-Jaculus, or Jerboa, with four toes before and five behind. Erxleb. mam. 409.-Torrid Jerboa. Penn. hift. of quad. n. 294.

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 chielly on the feeds of the Pterococci and Aftragali. It is farcely 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 brownih; the lower parts are white; and the hind part of the body is confiderably thicker than thefore parts: The head and fnout are more lengthened than in the Common Jerboa; the neck is remarkably fhort; the ears are large, oval, and naked; the circumference of the mouth and the feet are white; the foles of the feet are thickly clothed with fur; the thumbs of the fore paws have farcely any claw ; the hind thighs are very thick, ftrong, flefhy, and have little hair.

Has five toes behind, and three before, with the rudiments of a fourth; the tail is obe fcurely annulated. Schreber, iv. t. cexxxii.
Mius tamaricinus, or Tamarifk Moufe. Pallas, Glir. 88. n. 31. t. xix. D ${ }^{\circ}$. It. ii. 202.
Inhabits the falt marfhes near the Cafpian Sea-This feecies probably feeds on the fruit of the Tamarix and Nitrarium, which grow in thefe marfhes; and, under the roots of thefe 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 nofe to the rump; the tail is about the fame length, and is covered with hair, having a flight bufhynefs at the extremity; the upper parts of the body are of a yellowifh brown grey colour, and the under parts white; the ears are large, oval, and almoft 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 inftead of a thumb; four long flender toes behind and a fhort thumb or great toe : The tail is taper, flender, and almoft naked.

Labradore. Jerboid Rat. Penn. hift. of quad. n. 295. Arct. zool. n. 63 . Muf. of the Roy. Soc.
Inhabits Hudfon's Bay and Labradore.-This fpecies was fent over from Hudfon's Bay by Mr Graham: The nofe 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 fide, from the: brown colour of the back.

## 7. Circaffian Jerboa.-Dipus circaficus.

Of a chefnut colour, with the body confiderably lengthened and equally thick; the tail long and bufhy.

> Circaffian jerboid Rat. Penn. hift. of quad. n. 295. A.

Inhabits the neighbourhood of the river Terek in Circaffia.-Is about the fize of the Hamfter; the ears are like thofe of a Moufc; the eyes are red and foarkling; the teeth are fharp; the hair is long, efpecially
efpecially on the back; the claws are fharp; the fore legs are fhorter than the hind legs. This animal burrows in the ground, and runs much fafter up hill than down.

## XXXI. HA R E.-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 fmaller 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 ufe the hind feet in walking as far as the heel, and run by a kind of leaps or repeated bounds. They have either exceedingly fhort tails, named fouts, or none at all.

* With tails.

Has a longifh tail, befet with briftles. Molin. hift. nat. Chil. 272.
Vizcacha. Laet, Amer. 407 .-Vifcacha. Nieremb. hift. nat. 161. -Vifcachos. Feuille, obf: iii. 32. 'Acofta, ap. Purch. pilgr. iii. 966. Garcilaffo de la Vega. 33r. Penn. hift. of quad. p. 376 .

Inhabits the plains, and bafes of the mountains, in the colder parts of Peru and Chili, -The fur of this animal is of a moufe colour, and fo fine and foff, that, in the time of the Incas, it was wove into cloth for the Peruvian nobles, and is fill employed for bonnets by the Chilefe. In general appearance and manners, it refembles the Rabbit, and digs holes under ground, having two contiguous chambers, in one of which it fleeps, and the other, which is lower, it employs for eating its provifions, which are collected in the night time; the tail is bufly, and much longer than in any other fpecies. of the genus, it turns up in general, and is emplayed as a weapon of defence, but in what manner we: are not inforned.

## 2. Common Hare.-2. Lepus timidus. I.

Has a very fliort tail; the ears are longer than the head ${ }_{2}$ and black at the ends\% Faun. Suec. 25. Schreber, iv. t. ccxxxiii..A.

Lepus. Pliny, viii. c. 55 . Gefin. quad. 69 . Aldrov. dig. 247. Jonft. quad. t. 65 . Raj.. quad. 2042Erxleb. mam. 325. n. I. Klein, quad. 5 1. Briff. quad. 94.-Lievre, or Hare. Sm Buff. iv. 137 pl. lviii.-Hafe. Riding. jagdb. Th. t. $1_{3}$, -Common Hare ${ }^{2}$ Penn, hift. of quad. n. 241. Britr. zooL。 i. 87. Lever, Muf.

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. 32r. Grew, Muf. Roy. Soc. Pallas. Penn. hift. of quad. p. 369.

## \%. Yellow Common Hare.-Lep. timidus mélinus.

Of a fraw colour ; of the fame fize with the Hare, and runs like it. Cook, voy. iii. 565 . Pens. hift. of quad. n. 369 .

A very full hiftory 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. 25 1. and a. 3. obf. 93. and d. 3. a. 5. obf. 225 . and Barthoin. act. Hafn. 1671, n. 136.

Tihabits every where in Europe, more plentiful in Bulgaria than in other parts; in the northern parts of Perfia, in Japan, Ceylon, and almoft the whole of Afia; in Egypt, and Barbary; in North America, and even in Chili.-The Hare is a very timid animal, entirely deffitute of weapons, very quick in both the fenfes of hearing and of fight, and very fwift, efpecially 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 purpofe to throw off the dogs. It feeds only by night, chiefly on the twigs and bark of flrubs and young trees. It is hunted for fport with dogs or hawks, and, in India, with fome fpecies 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 fportfimean a form, among bufhes or long grafs; its urine is very fetia, which it takes care not to void in its neit. It does not pair, but breeds often in the funmer and fpring, the male purfuing the female when in feafon by the fcent ; the female lias 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 lafcivious. The body and head meafure about two feet long, and weigh between eight and nine pounds when full grown, fometimes, though rarely, twelve : The head is oblong, and fhaped like an egg, having long ears tipt with black, large, prominent, black eyes, which are placed much outwards, are provided with a membrana nicitans, 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 furnifhed 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 flrong, thick, and flefhy, 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 flefh was forbidden by the Druids, and was held in great efteem by the Romans, as it ffill is by the inhabitants of modern Europe, as, though very black, dry, and devoid of fat, it is ligh flavoured.

## 3. Tarying Hare-3. Lepus variabilis. 6.

Has a very flort tail; the ears are florter 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. r. Sclureber, iv. t. ccexxxv. B.

Lepus albus, or White Hare. Briff. quad. 139. n. 2. Aldrov. dig. 349. Wagn. helvet. 177.Lepus albiffimus. Klein, quad. 5 I.-Lepus candidus.' Jonft. quad. 160.-Alpine Hare. Forfter, Phil. Tranf. lxii. 375. Penn. Syn. p. 249. n. 184. Brit. zool. illuft. 40. t. xlvii.-Varying Hare. Penn. hift. of quad. n. 242 . pl. xl. f. I. Arct. zool. n. 37.

The fides only turn white in winter. Schreber, iv. t. ccxxxv. C.
Spurious varying Hare. Penn. hift. of quad. n. 242. w.-Ruffak. Pallas, Glir. P. i. p. $\mathrm{I}_{5}$.
Inhabits the coldeft and moft hilly parts of Europe and Afia; as Scotland, Norway, Lapland, Ruf fia, Siberia, Kamtfchatka, Greenland, and in America about Hudion's Bay and Labradore. - The fpurious variety is a mixed breed, between the Varying and Common fpecies, which fuftains in winter only a partial change of colour on the fides and more expofed parts of the ears and legs: It is only fouud in the fouthern and weftern parts of Siberia. Sometimes in autumn the Varying Hare collects in flocks of five or fix hundred; driven from the mountains of Ruffia and Siberia, they migrate in queft of fubfiftence into the lower country, and return again in fpring. 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 thofe of Scotland are finaller than the Ruffian. In fummer the head is of a greyifh tawny; the ears and back tawny mixed flightly with black ; the neck verges to afh colour; the fides grow gradually whiter from the back downwards; and the belly is white; the foles are black and wery thickly clothed; fometimes, in Siberia, they are yellow : The flefh of this fpecies is harder, drier, and lefs flavoured, than that of the Common kind. The fur of the Spurious variety is very much like that of the Common fpecies in winter. The Varying Hare keeps on the tops of the higheft hills, and almoft never mixes with the Common fpecies; it does not run fwiftly, and takes fhelter, 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 ftorm; changes to white in September, and recovers its grey colour in April; and is fubject to thefe changes even when keot in a warm room : In Greenland it is always white,

## 4. Black Hare.-Lepus nizer.

Has a very fhort tail ; the fur is entirely black, or very dark tawny, the whole year. Syft. nat. ed. Gmel. I6. n. 6. .

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.

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. $5 x .30 .0$

Lepus hudfonius, or Hudfon's Bay Hare, with the tips of the ears and tail grey. Pallas, Glir. 30.-Hudfon's Bay quadruped. Barrington, Phil. Tranf. Ixii, x 1 - Hare, or Hedge Coney. Lawa fon, Carol. 122. Catefby, app. xxviii.-American Hare. Forfter, Phil. Tranf. lxii. 376. Penn. hift. of quad. n. 243. Arct. zool. n. $3^{8 .}$

Inhabits Nortl2 America.-In New England, Canada, and farther north, this fpecies gets a long, filky, filver-white coat of fur, during winter, the edges of the ears only remaining grey; to the fouth it retains the whole year a fhort fur of an afl colour mixed with rufty and black, on the neck and body, the legs pale afh colour, and the belly white. It is fmaller than the Common Hare, being only eighteen inches long, and weighs from three pounds to four and a half; it takes fhelter in hollow trees and under fallen timber, and breeds once or twice a year, producing from five to feven at a litter: The fore legs are proportionally fhorter, and the hind legs confiderably longer, than thofe of the common kind.

## 6. Baikal Hare.-5. Lepus Tolai. 8.

Has a fhort tail ; the edges of the ears are black. Pallas, Glir. 17. t. 4. f. 2. Schreber, iv. t. cexxxiv.

Lepus dauricus, or Daurian Hare, having a longifh tail, and a black throat. Erxleb. mamm. 335.Cuniculus leporinus, or Hare-like Coney, of the fame colour with the Common Hare, and having a longifh tail. J. G. Gmelin, nor. com. Petrop. v. 357 .t. ii. f. 2.-Lepus, having the upper part of the tail black, and the under part white. Briff. quad. $97^{\circ-B a i k a l}$ Hare. Penn. hift. of quad. n. 245.-Tolai, or Baikal Hare. Sm. Buff. viii. 228.

Inhabits the country beyond lake Baikal, in the defert of Gobi, and as far as Thibet.-This fpecies is called Tolai by the Monguls, and Rangzo by the Tanguts; it is larger than the former fpecies; in fummer it is very much of the fame colour with the fummer coat of the Varying Hare, and in winter turns only a little palex; the legs are likewife fmaller than in that fpecies, and the hind legs are longer; the tail is longer than that of a Rabbit, but fhorter than that of the Common Hare, and, like it, is black, efpecially at the root. It agrees with the Rabbit in the whitenefs of its flefh, but does not burrow ; it runs ftraight forward when purfued, and takes fhelter as foon as poflible in the holes of rocks.

The tail is very hort; and the ears are of an uniform colour. Molin, hift. nat. Chils 272.

Inhabirs the kingdom of Chili-This fpecies is very fmall, not exceeding the fize of a finall Rat; the body is of a conical form, the ears are fmall and fharp pointed, the fnout 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 fhort; the ficfh is white, and very good eating. This fpecies refembles the domeftic Rabbit, in the variability of colour, and in prolificnefs, producing almoft every smonth, fix or feven young ones at a time, and is domeflicated in Chilia

The tail is bufly, and as long as the head; and the feet are red. Penn. hiift. of quad. n. 246. J. Burmannus.

Inhabits the country three days journey north from the Cape of Good Hope.-Dwells in the firfures 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 durky and tawny colour ; the cheeks and fides are afl coloured; the breaft, belly, and legs, are ruit coloured; the tail, which is bufly and carried upwards, is of a reddifh 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 finaller than the common kind, is of a colour between that of the Hare and Rabbit, and has white flefl.

## 9. Common Rabbit.-7. Lepus Guniculus. 2.

Has a very fhort tail almoft of the fame colour with the body; the ears are black at the points; and the hind legs are fhorter than the body. Pallas, Glir. 30. Erxleb. mam. 331. n. 3. Schreber, iv. t. ccxxxvi. A.

Lepus Cuniculus, or Rabbit, with a very fhort tail, and naked ears. Syft. nat. ed. xii. i. 77.With a fhort tail and red pupils of the eyes. Syft. nat. ed. ii. 46. D. ed. vi. 9. n. 3. Muf. ad. Fr. i. 9.-Of a duflky grey colour. Briff. reg. anim. 140. n. 4.-Cuniculus. Pliny, viii. c. 29. 55. 58. Aldrov. dig. $3^{82}$. f. p. $3^{85}$. Agric. an. fubt. i6. Gefn. quad. 394. Jonft. quad. 16 1. t. 6 . Raj. quad. 205.-Kunin. Faun. Suec. n. 26. -Lapin fauvage, or Wild Rabbit. Sm. Buff. iv. 155 pl. lix.-Rabbit. Penn. hift. of quad. n. 244. Brit. zool. i. go.-The anatomy. Perv. obf. ro.
a. Wild Rabbit.-L. Cuniculus ferus..

Of a brownih grey colour.

Of an uniform black colour.

Of an uniform white colour, with fiery red eyes.

## 8. Pied tame Rabbir, - L. Cun. domefficus variegatus.

Of a pied or mottled black and white colour. Sm. Buff. iv. 155. pl. 1x.
8. Silvery tane isabbit.-L. Cun. domeficus argenteus.

Of a filvery grey or ath colour, with tawny feet. Briff. reg. an, 19 r .
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 thefe holes in the middle of the day, and goes out in the evening, night, and morning, in queft of food; feeds upon all kinds of green vegetables and grain; its flefh is white and much efteemed, efpecially that of fuch wild ones as feed on junpur. The female breeds fix or feven 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 fize in fix months, and live about eight or nine ycars; the male is very falacious, and is apt to deftroy the young ones: They are preyed on by hawks, badgers, and polecats, and are caught by means of terriers, nets, and ferrets. Numbers are bred in a wild ftate in places fet apart for the purpofe, called warrens; and great numbers are bred in houfes in a domeftic fate. The Rabbit is confiderably fmaller than the Hare, being fcarcely eighteen inches long; the ears are fhorter than the body; the wild variety is of a brown afin colour, having the upper part of the tail black, and the under part white. The fur of tine fivery variety is valuable.

## 10. Hooded Rabbit.-Lepus faccatus.

Has a double fold of the fin behind the head, and anorker under the throat. Syft. nat. ed. Gmel. 165. n. 2. ©.

Hooded Rabbit, or Ruffian Rabbit. Penn. hift. of quad. n. 244. $\boldsymbol{r}$. pl. xl. f. 2.-Lepus cuniculus rufficus. Syft. nat. ed. Gmel. i. 164. n. 2. $\delta$.

Its place unknown.-This animal is defcribed by Mr Pennant from a drawing in the Britifh Mufeum by Mr Edwards, and is called by him a Ruffian Rabbit, but it is unknown in that empire. It. is of an afh colour with brown head and ears; the fold of the flkin behind the head adinits 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 occafionally.

## 11. Angora Rabbit.-Lepus Sericeus.

Is covered with long, waved, filky hair. Schreber, iv. t. cexxxexi. C.
Lepus cuniculus angorenfis, or Rabbit of Angora, having a tail, and covered with very fine and long hair. Brifl. quad. 141. n. 6. Syft. nat. ed. Gmel. 163. n. 2. \%.-Angora Rabbit. Penn. hift. of quad. n. 244. $\beta$.-Lapin d'Angora, or Angora Rabbit. Snn. Buff. iv. pl. lxii. and lxiii.

Inhabits Angora, in Afia Minor.-This is an exceedingly beautiful animal on account of its fine, white, filky fur, which is a valuable article in cemmerce. It is a very fingular circumftance, which cannot be at all accounted for, that this animal the Rabbit, the Cat of Angora, already defcribed, and the Goat of the fame place, to be defcribed, hereafter, are all adorned with a fimilar filky clothing of long fine hriir.
** Having no tails. 12. Braflian Hare.-9. Lepus brafilicnfis. 4.

Has very large ears, no tail, and, for the mon part, a white ring or collar round the neck. Pallas, Glir. 30.

Lepus brafilienfis, or Brafilian Hare, having no tail. Syft. nat. ed. ix. n. I. D. xii. 7S. n. 4. Briff. quad. 97.-Cuniculus brafilienfis, or Brafilian Coney, named Tepeti by the natives. Marcgr. Braf. 223. Pifo, Braf. 102. Raj. quad. 205. Sm. Buff. viii. 276.-Citli. Ferinand. Mexic. 2.Brafilian Hare. Penn. hift. 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 fpecies is principally diftinguifhel by the want of tail. It lives in the woods, does not burrow, and is very good eating.

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\text { 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 blackih grey, and the under parts hoary. Schreber, iv. t. cexxxvii.

Lepus pufillus. Pallas, Glir. 30. 45 . t. i. and t. 4. f. 3. 9. and Nov. com. Petrop. xiii. 534 . t. 14. and It. i. 1 $_{55}$. ii. 533 . iii. 498. Lepechin, It. i. 260. Zimmerman. Mant. pl. ii. 522. Erxl. mam. $33^{8 .}$ n. 8.-Calling Hare. Penn. hift. of quad. n. $25^{0}$

Inhabits the fouthern extremity of the Ural mountains, about the Irtifh, and on the funny hills. to the fouth of the Altaic chain. - It delights in funny vallies, and lills that are covered with grafs; and feeds chiefly on the flowers and bark of the Cytifus fupinus, Robinia frutefcens, Cerafus pumila, and Malus fylveftris; digs holes in dry places, amid bufhes, and leads a very retired life, feldom going to any diftance from its burrows; thefe are long and intricate, with a very fimall entrance. They are difcovered by means of their voice, which is very loud and fonorous, like the piping of a quail, and may be heard to a great diftance; it is repeated, at juft intervals, three, four, or even fix times, moftly at night and morning, and never in winter or in bad weather. This is a gentle animal, and is eafily tamed; it fleeps little, but drinks frequently; and is mont 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 fcarcely 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 yellowifh, the breaft and belly are whitifh or hoary, and the throat is hoary; under this is a very copious coat of very foft, long, and fine down, of a brownifh lead colour: The head is more lengthened than that of any of the preceding feecies of this genus, with dark eyes like thofe of a Rat ; the body is flender, weak, and unfready; and the legs are: fhort.

Has fhort 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 ${ }^{\circ}$. Glir. 30. and 45. 59. t. 2 . and t. 4. f. IO. 12: Zinmerman. Erxl. mam: 337. n. 7. Penn. hift. of quad. n. 248. Arct. zool. i. n. 39.-Muftela daurica, or Daurian W afel, with a reddifh back, a fhort thick body, and no tail, called Ochodona daurica anaurinos. Catal. muf. Petrop. 343. n. 114. 115.

Inhabits the Altaic chain of mountains, to the extremity of Afia, and beyond the Lena and Jeni-fei.-Dwells in the moft rugged and inacceffible fhelves 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, exeept in cloudy weather, when ir collects into finall flocks on the rocks; the voice or cry refenbles a loud whiffle. In the month of Auguft they cut down great quantities of foft tender grafs 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 tronk of a tree, or place it in heaps under the fhelter of rocks; thefe are covered by the fnow in winter, and the animals form a trodden path from their holes to the magazine by which they go to feed: Sometimes thefe ricks are as high as a man, and many feet diameter; but wfually they are only about thrce feet; they are often of vaft fervice to the hunters, as provender for their horfes, which would otherwife fometimes perifh, in thofe inhofpitable regions, for want of food. The Mountain Hare is preyed on by Sables and Siberian Weafels, and is much infefted by the Oeftus leporinus, a fpecies of gad-fly, which lodges its eggs in their flins, and often deftroys them. The general appearance of this animal is more dull and wilder than the Calling Hare ; the body is fhorter and more big bcllied; the head is longer and more flender, with large, broad, but fhort, rounded ears, very long whifkers, and finall black ejes; 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 fomewhat aih coloured; the fur of the body is duiky 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 firf fight feems of a bright umnixed 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.

## 15. Ogotona Hare.-1 2. 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 Mefferfch-- mid; with a fhort body, and having no tail. Cat. muf. Petrop. i. 343. n. 112.

Inhabits the mountains beyond Lake Baikal, and all Mongalia, efpecially the great defert of Gobi.This animal dwells fometimes in rocky places among heaps of fones, or forms burrows in fandy places with two or three entrances; thefe are dug in an oblique direction, and the old femaies, for fecurity, form many of thefe near and connected together. They go about moftly at night; the roice is exceelingly fharp and clamarous, fomewhat like the chirp of a fparrow, twice or thrice repeated, but very eafly diftingufhed from that of the preceding fpecies; they feed moftly on the bark of the Fyrus baccata, and on the fuckers of the dwarf Elder, and in fpring on various herbs which grow in the fandy ioil; theic, like the Mountain Hare, they collect, in autumn, into hcaps for winter provifion. This is a very nimble animal, which is fearcely capable of being tamed : It is preyed on by various fipecies of the weafel tribe, by the Manul cat, by hawks of diferent kinds, woodpeckers, and owls: It differs from the Calling and Mountain Hares chiefly in fize, bcing about fix inches and a half long; the fcmalc weighs about four ounces, and the male about feven; from the Calling Hare, which it moit refembles, it differs in being of a much paler colour, which is uniform tise whole year, in liaving fronger legs, and by the figure and dufky colour of the cars: The fur is intermixed with
a few dufky hairs; the nofe has a yellowifh fpot, and the fpace about the rump is of the fame colour, as are the outfides of the limbs; the belly is white; the fur of the body is brown at the roots, light grey in the middle, white at the tips, and interfperfed with a very few dufky hairs. It procreates in fpring, and the young ones are fully grown by the end of June.

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\text { XXXII. A S H K OK O.--3ı. H } \subset R A X
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## Has two broad and diftant fore-tecth above; four contiguous broad, flat, notched fore-teeth below; and four large grinders on each fide in both jaws. The fore feet have four toes; the hind feet only three. No tail; and no collar bones.

The Englifh generic name of this animai is borrowed from Mr Bruce, the celebrated Abyfinian traveller, who defcribes one fpecies of this genus. In the former editions of the Syftema Naturae, and by feveral ingenious naturalifts, the firf fpecies is confidered as belonging to the Cavy genus; the fecond fpecies is newly difcovered.

## 1. Cape Afhkoko.- I. Hyrax capenfis. I.

Has flat nails on all the toes, except one toe of each hind foot which is armed with a fharp pointed claw. Schreber, iv. t. ccxl.

Cavia capenfis, or Cape Cavy, having no tail, and four teeth in the lower jaw. Erxleb. mam. 352 . n. 3. Syft. nat. ed. xii. iii. 223. Pall. mifcel. zool. 34.t. 3. and 4. f. 5. 13. D ${ }^{\circ}$. fpic. zool. fafc. ii. 16. t. 2. 3. Penn. hift. of quad. n. 239.-Baftard African Marmot, or Rock Badger. Voefinaer, ap. Buffon.-Cape Marmot. Sm. Buff. iv. 348. pl. xcix.-Kripdas. Gr. a Mellin, fchr. der Berl. naturf. iii. $2^{\prime} 7$ I. 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 vcry thick, and the fnout very fhort and blunt; the eyes are finall; 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 concealcd 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 yellowilh brown or greyifh colour, hoary at the roots; the fides are of a dirty whitifh grey; and along the back is a brownifla 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, furnifhed 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 fenfe of hearing; its gait is vcry wavering and unfteady, owing to the Chortnefs of its thighs and unequal length of the hind and fore legs, notwithftanding 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 re-
fembles the Marmot and Cavy; in the conformation of its toes it has fome analogy with the Maucauco; but from the circumfances of the teeth it cannot be ranked with the laft; and the peculiasity of the feet has caufed Dr Gmelin to feparate it from both of the former.

Has foft tender nails on all the toes. Schreber, iv. t. ccxi. B.
Afhkoko. Bruce, Abyff. v. I 39. and fig.
Inhabits Syria and Ethiopia.-The body of this fpecies is more lengthened than that of the former, and the fnout more oblong. The fur is of a reddifl grey colour, like that of the Wild Rabbit, the throat, breaft, and belly, being white ; all over the body a number of long, ftrong, and polifhed hairs, are fcattered among the fur: The body and head of the individual defcribed by Mr Bruce meafured feventeen inches; the ears are broad, open, and rounded; each fide of the mouth is garnifhed with long whifkers; in walking, which is performed creeping low with the belly almoft touching the ground, the hind feet are ufed as far as the beel; all the toes have fhort, broad, weak, flat nails, except the inner toe of the hind foot, which is provided with a flat crooked nail fomewhat longer than the reft; the foles of the feet are formed of flefhy naked protuberances, divided by furrows. It lives moftly about the mouths of caves or clefts in rocks, is gregarious, feeds entirely on vegetables, is mild, feeble, timid, and eafily tamed, and has no voice or cry. Mr Bruce is of opinion that this animal is the Gannim, or Daman Ifrael, of the Arabs, and the Saphan of facred fcriptures, which has erroneoufly been tranflated the Rabbit. Its flefh is very white, but is not eaten by the Abyffinians or Mahometans. The fame celebrated traveller is of opinion that it ruminates, or chews the cud.

## V. $P \quad \mathrm{C} \quad \mathrm{O} R \mathrm{~A}$.

## Have no fore-teeth in the upper jaw; the lower jaw

 has fix or eight fore-teeth, which are placed at a confiderable diftance 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 defcribed among the characters of the orders, in the introduction to the clafs of Mammalia; in confequence of this ftructure they all feed on vegetable food, and ruminate, or chew the cud; that is, having fwallowed their food almoft whoic, while feeding, it remains for fome time in the firft ftomach, where it is macerated in the gaftric juice, and afterwards, when the animal is at reft, it is brought up in mouthfuls, is fully chewed, and again fwallowed for digeftion. They are likewife all hoofed, or have their feet armed with horny fhoes, without toes and claws; thefe hoofs are divided by a cleft in the middle into two portions; and befides thefe all except the Camel have two loofer falfe hoofs, on the back part of each: foot, which do not reach the ground in walking. Such of them as have horns have no tufks, and thofe which have tuflss want horns *. Moft of them are fubject to a kind of balls in their ftomachs, formed of hair licked off their bodies and fwallowed; thefe are named Aegagropila.

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\text { XXXIII. CAMEL.-32. CAMELUS. } 27 .
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Has no horns. In the lower jaw are fix thin broadifh cutting teeth; at fome diftance from thofe and from the grinders there are two tufks on each fide 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. Forik. faun. orient. P. iv.
Kapm入os Agublos. Arift. hift. an. lib. ii. c. I.-Camelus Arabicus. Piin. lib. viii. c. is.-Camelus dromas. Gefn. quad. 171. f. p. 172. Pr. Alp. Ag. i. 223.t. I،-Camelus. Jonft. quad. 95.t. 4 I.

[^15]42. 43.-Dromedaris. Gefn. thierb. 234. f. p. 234. Charlet. exerc. I3.-Dromedaire, or Dromedary. Sm. Buff. vi. 118 . pl. clv.-Arabian, or Ore-bunched Camel. Penn. hift. of quad. n. 5 \%. pl. xiii. f. I.

Inhabits, in a wild fate, the deferts of Arabia and Africa, and the temperate parts of Afia; is found, though not in great numbers, on each fide of the Songar mountains, towards the river Ilus, Mount Mufart, Mongalia, and the fouthern parts of Siberia; is domefticated and broke in for the ufes of man all over the Eaft, and in A.ica, and has likewife been bred in Jamaica and Barbadoes.This fpecies is fubject to numerous varieties in fize and colour ; it is generally of a reddifh afh, fometimes white or cream coloured; is a mild and gentle animal, except when in feafon, or when infefted by the Oefrum, a fpecies of gad-fly; is wonderfully adapted for journying in dry fandy deferts, being remazkably patient both of hunger and thirt, fafting almoft entirely for whole days, and putting up with the dry branches of fuch finous fhrubs as grow in the defert, which no other animal of burthen could ufe; and will likewife go on, without drink for many days, nature having endowed it with the inftinct of foring up a quantity of water, on thefe occafions, in a particular fomach: It is capable of carrying very large burthens, even a thoufand 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 flort in fummer, but longeft on the neck' and hunch; in winter it grows coniderably 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 fpecies is ufually 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 tongh cartilaginous flkin; the neck is long, flender, and reverfely arched; the feet ase 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 ikin. On the breaft, 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 fpecies, fhewn fome years ago at Edinburgh, was obferved a peculiar conformation of the fkin or the neck a little behind the head; a fpace about three inches by four, was fuil of minute open pores, apparently the ducts of miliary glands, from which a heavy fmelled aqueous fluid could be preffed out in abundance. It is uncertain whether this be common to the whole race, or accidental ; perhaps it is a provifion of nature to carry off the perfpirable matter, by a partial emunctory, to fave the vaft wafte which general perfiration muft occafion, in the torrid and. waterlefs deferts of Afia, Arabia, and Africa.-T.

## B. Swift Camel.-Camelus dromos.

This variety refembles the former, but is much fmaller. Penn. hift. of quad. p. rrg.
Fong-Kyo-Fo, or Camels with feet of wind. Du Halde, hift. of China, ii. 225.
The fwift variety is employed in Perfia, Arabia, and Syria, for expreffes, and is faid to travel ninety or a hundred miles a day, and to be able, with very little food or reft, to continue this aftonifhing rate for eight or nine days. It is this variety to which the name of Dromedary ought exclufively to belong,
belong, as that word is cierived from the Greek $\Delta \rho_{\rho}$ \&ess, which fignifies fivift. The fwift Camels of China, above referred to, are probably fimilar to thofe of Perfia and Arabia.

## 2. Bactrian Camel.-2. Camelus bactrianus. 2.

Has two hunches on the back. Brif. quad. 53: Forfter, Phil. Tranf. lvii. 343. Forlk. Faum. orient. P. iv. Raj. quad. i45.
 Jonft. quad. 42. 43.44 .f. I.-Camelus turcicus, or Turkifh Camel. Profp. Alp. Aeg. i. 223.t. I3.Camelus. Gefn. quad. 162. f. p. 163. Schwenkf. therictr. 72. Aldr. bif. 907.88 g .-Chameau, or Camel. Sm. Buff. vi. if8. pl. clxvi.-Trampelthier, oder Dromedar. Knorr. del. nat. t. к. 6.Bactrian, or Two-bunched Camel. Penn. hift. of quad. n. 58. 阝.

Inhabits, in a wild ftate, the weftern parts of India, and in the deferts near the Chinefe EmpireThis fpecies is extremely hardy, and is bred in Perfia, Africa, and the eaft, but is more rare than the Arabian, or fingle hunched kind; it is chiefly appropriated by the great men, and is fwifter of foot than the other, though not nearly fo much fo as the fwift variety of the Arabian. In its general appearance and manners it refembles the Camel with one hunch, from which it differs chiefly in having longer hair, efpecialiy on the throat and neck, and in being furmounted with two hunches on the back; of thefe the hinder one is larger than the other. Camels are faid to be poifoned by the boxwood tree ; they procreate in February, the female goes a whole year with young, and produces only one foal at a time; it arrives at its full growth in two years; during moft part of which time it continues to fuck.

## ß. Mixed Camel.-Camelus bybridus.

'In Perfia a hybrid race is carefully cultivated between the Arabian and Bactrian fpecies; this is in ligh eftimation, as ftronger, hardier, and more active than either ; it is capable of reproduction, but the breed degenerates, and is only kept up in perfection by the original means of its production.

## 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.-E^a由onae»nios. Margr. Braf. 243.-Llama. Laet, amer. 40 5. Ulloa, voy. i. 3 65. 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, ufe, rumination, difficult commerce of the fexes, patient endurance of hunger and thirit, external form, and internal ftructure, it refembles the Camel of the old world; but is much fmaller, feldom reaching four feet and a half high, and has no hunch on the back. The head is fmall, with a thort nofe, large round black eyes, and fharp pointed ears of a moderate fize; 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 hort. This animal is mild, gentle, and docile; it is domefti-

[^16]cated in South America, and employed for carrying burthens, efpecially from the mines, through the rugged mountains, having a frm, fure-footed, grave ftep. The fur is long and foft, of a white or yellowifl colour, fpetted with black and brown; the body is about fix feet long, and the hunch or proaberance on the breaft is faid, by fome authors, to be conftantly moiftened with a yellowifh oil, or clanmy fluid. It fights its enemies with the feet and teeth, and, when angry, difclarges its faliva, fometimes to the diffance of ten paces, which, if it falls on the flkin, raifes an itching reddifh fpot. The: voice is a find of neighing. It procreates * about the end of fummer; the female has two teats, goes rive or fix months with young, and brings one at a birth, feldom two. It can carry about a hundred and fifty pounds, travelling for three or four days incefintly, at the rate of three German miles a day, and then requires a whole day to reft; like the Camel, it kneels down to be loaded or unloaded, and will not rife if overburthened, neither will blows force it to quicken its pace; it lies down when wearied; its temper is very fubborn, and it can only be forced to proceed by compreffing the tefticles. Its flefh is equally good with our beft mutton, and is very fat, when well fed, efpecially immediately below the flin.

Dr Gmelin queftions whether this may not be the fame animal with the Camel, altered by climate to a fmaller fize; but, if there were no other reafon, the different times of geftation are fufficient to mark a totally different fpecies; the neck is lefs bent, the back is almoft even, the tail is more elegant, the pace is quicker, the legs are handfomer, and the hair, which is fpun into worfted, is fofter and longer, than in the Camel.-T.

The body is hairy, the back protuberant, and the tail is carried erect. Molin. hift. nat. Chil. 28 I.

Pernichcatl. Fernand. Mex. if.-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 fpecies refembles the Glama in manners and many particulars of its external form, and in the ufes to which it is applied by the natives of the country; but thefe animals never intermix, either in the wild or domefticated ftate: Befides this, the Guanaco wants the protuberance on the breaft defcribed in the Glama; it has a hunch on the back, which the former animal lras not; its lind legs are likewife confiderably fhorter 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 meafure about feven feet long, and near four feet three inches high ; the tail refembles that of a Stag, and the ears are like thofe of the Horfe ; the upper parts of the body are yellow, and the under parts pure white. The flefh of the younger animals is very good eating, but that of the older ones is rather hard and infipid, unlefs when falted.

## 5. Chillihueque.-5. Camelus arcucanus. 6.

The body is covered with wool ; the back has no protuberance; the upper part of the noie is much curved; and the tail is pendulous. Molina, hift. nat. Chil. 279.

Aries

[^17]Aries moromorus. Nieremb. hift. 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 thofe of Sheep; but the tail is longer, and the wool much finer: In other circumfances, 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 ufed for fabricating very fine cloths; it is fometimes white, fometimes black, brown, or afh coloured. The flefh is very good.

## 6. Vicugna.-6. Camelus Vicugna. $7 \cdot$

The body is clothed with fine wool; the nofe is blunt and flat ; and the tail is flat. Molina, hift. nat. Chil. 277.

Vicuna, Vicunna, or Vicunnas. 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 higheft and moft precipitous peaks of the Andes in South America, efpecially in the Chilefe provinces of Coquimbo and Copiapo.-This animal is timid, vcry fwift, and extremely patient of cold; it keeps in large herds on the mountains, and is tamed with great difficulty. The natives ftrctch long cords, with bits of cloth hanging to them, acrofs the gorges of the mountains, and, driving the Vicugnas towards them, they are fo frightened by the flutter which the pieces of cloth make in the wind, that they dare not pafs, but, huddling together, fall an eafy prey to the hunters. This fpecies was likewife ufcd in former times for carrying fimall burthens of fifty to feventy-five pounds; the flefh is very good; and the wool is ufed for making fine cloths and caps. The Vicugna has fome refemblance to the Goat in figure, and in its tail ; but the neck is longer in proportion, the head is rounded and hornlefs, the ears are fhort and erect, the nofe is fhort, and the legs are twice as long as thofe of the Goat ; the wool is exceffively fine, filky, and eafily dyed, and is ufually of a rofe colour. This fpecies is diftinguifhable from the Pacos, by having a more flender body, and by the wool and fnout being both of them fhorter than in that animal, with which, befides, it will not intermix. A Bezoar is often found in the fomach of the Vicugna.
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. i47. Klein. quad. 42.--Pacos. Hernand. Mex. 663. Laet, Amer. 405. Sm. Buff. vii. I33. Penn. hift. of quad; n. 60.-Alpagne. Frez. voy. i. 267.

Inhabits the higheft mountains of Peru.-This fpecies refembles the Vicugna confiderably, but is fmaller ; its flefh is not fo good, and its wool, though longer, is not fo fine. It is gregarious like the
former, and fo ftupid as to fall a prey to the fame fimple fnare; it was likewife ufed formerly for carrying finall loads. In the wild fate the upper parts of the body are of a purple colour, and the under parts white; in the domefticated fate the colour varies, but is ufually black, mottled with white and reddifh, or brown ; the wool is ufed for the fame purpofes with that of the Vicugna; but, being coarfer, the ftuffs made from it are not fo filky.

## XXXIV. M U S K.-33. MOS CHUS. 28.

## Has no horns. There are eight fore-teeth in the lower jaw;

 and two long tufks, one on each fide, in the upper jaw, which project out of the mouth.
## 1. Thibet Mufk *.-1. Mofchus mofchiferus. I.

Has a bag or tumour on the belly, near the navel; and a very fhort tail. Pallas, fic. zool. xiii. t. 4. 6. Sclıreber, v. t. ccxlii.

Mofchus. Schroeck, hift. mofch. Vienn. 1682. iv. t. 44. Brun. It. 121.t. 121.-Animal mofchiferum, or Mußk animal. Nieremb. hift. nat. 184. J. G. Gmel. Nov. com. Petrop. iv. 393. Raj. quad. 127.-Bifamthier, Capreolus mofchi, or Mufk Roe. Gefn. quad. 786. Bo. Thierb. 50. f. p. 50.5 I. Jonft. quad. t. 29.-Capra mofchi, or Mufk Goat. Aldrov. bifulc. 743. f. p. 744. Jonft. quad. 78. Charlet. exerc. io.-Tragus mofchiferus. Klein, quad. 18. Brif. reg. an. 97. n. 5.Mufc, or Mufk. Sm. Buff. vii. 44--Thibet Mulk. Penn. hift. of quad. n. 54. pl. xii. f. i. Arct. zool. i. 34. A.

Inhabits the principal Alpine mountains of Afia, efpecially the higheft rocky mountains from the Altaic chain to that which divides Thibet from India; likewife in China and Tonquin, and in eaftern Siberia about lake Baikal and the rivers Jenifea and Argun.-Dwells folitarily in the moft precipitous placcs of the mountains, among rocks, in the fmall narrow valleys furrounded by thefe fnowy hiils, and in the pine forefts which grow in their interftices, but chiefly keeps on the higheft 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 tulks for the females; it is exceedingly active in leaping, running, climbing, and fwimming, and is very difficultly tamed; the flefh is eatable, and that of the younger animals is reckoned delicate. The male meafures about three feet three inchas long from the nofe to the origin of the tail, and is about two feet three inches high at the fhoulder; the female is lefs than the male, has a fharper nofe, has no tufks nor mufk bag, and is provided with two teats: The head is very handfome, and refembles that of the Roe ; the fur 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 blackifh brown on the upper, and hoary, felldom 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 laft vanilh.

[^18]nifh altogether; the tail is very fhort, and is hid in the fur. Near the prepuce is fituated the mulk bag, or follicle, which is of a fomewhat oval figure, flat on one fide, and roundecl on the other, having a fmall 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 mufk, and the beft comes from 'Thibet, that which is found in Siberia having fomewhat of the flavour of Caftor; each bag contains from a dram and a half to two drams.

The upper jaw is much longer than the under, and is furnifhed on each fide with a flender turk two inches long, and hanging quite out of the mouth; the ears are long, narrow, and of a dark brown on the outfide, the infide yellow; the long hairs, of which the fur is compofed, are afh coloured near the bottom, black near the ends, and reddifh brown at the tips, being each marked with fhort waves from top to bottom; in fome the fore part of the neck is marked with long white ftripes, and the back with pale brown perpendicular ftripes; the hoofs are long, black, and much divided, and the fpurious hoofs of the fore feet are very long; the fcrotum is of a bright red colour, and the penis very fmall.

Of a reddifh brown colour on the upper, and uniformly whitifh on the under parts of the body; the tail is Mortifh ; and the feet have fpurious hoofs. Schreber, v. t. ccxlv.

Tragulus indicus, having fhort hair, of a tawny colour on the upper, and whitifh on the underparts of the body. Briff. reg. an. $3^{22 .}$ n. 3 .

Inhabits India.-This fpecies is much of the fame fize with the former; the head, however, refembles that of a horfe, with erect, oblong ears, and the tail is longer and more perceptible; the legs are very flender.

## 3. Pigmy Mufk, 3. Mofchus pygmacus. 3.

Has no fpurious hoofs; is of a tawny red colour on the upper, and white on the lower parts of the body. Erxleb. mam. 322. n. 3.
Mufk, having the legs fmaller than a man's finger. Syft. nat. ed. xii. 92.-Capra, or Goat, with curved, conical, obtufe horns, furrowed on the fore parts. Syft. nat. ed. x. 69.-Tragulus guinenfis, with long hair of a darls tawny colour. Briff. regn. an. 96. n. 2.-Cervus pufillus, or Small Deer, of Guinca. 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, Muf. i. 70. 73. t. 43. f. 1. 2. 3. and t. 45. f. 1. Klein, quad. 22.Chevrotain des Indes orientales. Buff. hift. nat. fr. ed. xii. 315 and 341. t. 42. and 43.-Indian Memina? Sm. Buff. vii. 22. pl. cc. f. r.-Guinea Mufk. Penn. hift. of quad. n. 57. Nat. mifcel. pl. 3 .

Inhabits India, Java, and the other Indian iflands.-The body and head of this elegant little animal meafure 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 foreteeth are very broad, and the other fis very flender; the tulks are fmatl.

## 及. Striped Pigmy Murk. - Mifoch. Pigm. leverianus.

In the Leverian Mufeum is a fecimen of this fpecies, which varies a little in colour from that above defcribed; being ferruginous, intimately mixed with black, and having perpendicular white fripes on the neck and throat. Penn. hift. of quad. p. 115.

## 4. Memina.-4. Mofchus Meminna. 4.

Has no fpurious hoofs; is of an olive afh colour on the upper, and white on the under parts of the body; the fides being fpotted with white. Erxleb. mam. 322. n. 2. Schreber, v. t. ccxliii.
Meminna. Knox, Ceylon. 2 r.-Ceylon Chevrotin, or Ceylon Memina. Sm. Buff. vii. 22. pl. cc. f. 2.-Piflay. Hamilton, voy. to E. I. i. 261.-Indian Mufk. 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 tranfverfely 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 fpurious hoofs.
5. Javan Mulk.-5. Mofchus javanicus. 5.

Has very fmall fpurious hoofs; of ferruginous colour on the upper, and white all along the under parts of the body ; the tail is longifh and hairy, being white below and at the tip. Pallas, fpic. zool. xii. I8. and xiii. 28.

Inhabits Java--This fpecies is about the fize of a Rabbit, and its legs are fimilar to thofe of the Pigmy Mufk ; 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, almoft 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 brufhes, and there are no pits either on the groins or below the eyes. This animal and the Memina feem only varieties of the Pigmy fecies.

## 6. Brafilian Mufk.-6. Mofchus americanus. 6.

Of a reddifh brown colour, with a black muzzle, and white throat. Erxleb. mam. 32 . n. 4 .

Tragulus Surinamenfis, of a reddifh yellow colour, and marked with white fpots. Brif. reg. ans. 95. n. 3. Klein. quad. 22. Seba, Muf. i. 7I.t. 44. f. 2. Marchais, voy. iii. 28 I.-Wirrebocerra. Bancroft, Guiana. 123.-Brafilian Mufk. Penn. hift. of quad. n. $55^{\circ}$

Inhabits Guiana and Brafil.-This animal is farcely fo large as the Roe; it is exceedingly timid, fhy, active, and fwift; and has much of the manners of the Goat, efpecially in climbing rocks. The 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 reddifh brown: The hind legs are


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longer than the fore; the ears are four inches long. In the fpecimen examined by Mr Pennant the throat and underfide of the neck were of the fame colour with the reft of the body. Dr Gmelin fufpects that the above defcribed animal may only be a fawn of the American Roe.

Of the fize of a Stag, and without horns. Nieuhoff; voy, in Harris, coll. 209.
Inhabits the ifland of Formofa. -This animal is only mentioned by Nieuhoff in a curfory namer, as above, without plate or farther defcription.

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\text { XXXV. DEER.-j4. } 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 tufks, but fometimes one tufk is found on each fide in the upper jaw.

The animals of this genus are all fond of living in woods; they fight with their horns, and frike with their fore feet; they are faid to have no gall bladder ; their flefh is univerfally wholefome, and that of fome kinds, under the name of venifon, is efteemed a great delicacy; fome fpecies are ufed by mankind for draught. Mr Pennant has fubdivided the genus into fuch as have the horns palmated, that is, fpread out into broad flat boards, having proceffes or projections, named fnags, fancifully fuppofed to refemble fingers, and the broad part to have fome likenefs to the palms of the hands; hence the name; and fuch as have rounded horns, likewife branched. It may be neceffary to explain a few terms ufed in defcribing the horns of this genus : The beam is that part of the horn which rifes from the fore-head, like the ftem of a tree; the palms are broad flat expanfions of the horns in fome fyecies, which are befet round with procefles like fingers, called frags; the branches are fubdivifions of the horns, like thofe of trees; the brow antlers are particular proceffes in fome fpecies, which arife from the beams near the head, and project forwards. The horns grow from the points, and, when growing, are covered with a flain which is extremely vafcular, and clothed with a fine velvet fur; from which circumftance the growing horns are named velvets; this $\mathbb{i k i n}$ dries, fhrivels, and falls off,: when the horns have attained their full fize.

## * Having palmated horns.

Its broad palmated horns have very fhort beams or none; the throat has a tufted excrefcence. Schreber, v. t. ccxivi. A. B. Briff. regn. an. 93. n. 9. Miller, on var. fubj. of nat. hift. 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. fo.
p. 869. 870 . Jonft. quad. t. 3 0. 3 I. Olear. muf. t. 9. f. 2. Raj. quad. 86. J. F. Leopold, difl. de Alce. Bafil. 1700.-Mofle. Laet, Amer. 68.-Mofe Deer. Dudley, Phil. Tranf. n. 368. p. 165. Dale, $\mathrm{D}^{\mathrm{o}}$. abrid. ix. 85.t. 6. £. 50.-Elk. Lawfon, Carol. 123. Pemn. hift. of quad. n. 42. pl. ix. f. 1. 2. - Orignal. Charlev. nouv. Fr. iii. 126.--Elan, or Eik. Sm. Buff. vi. 315. pl. clxxxv.Alg. Faun. Suec. n. 39--Lof. Rzaczinfki, Pol. 212.-Moofe. Arct. zool. n. 3. pl. viii.

Inhabits Europe, America, and Afia as far as Japan.-This animal is chiefly found in the northern parts of both continents, and frequents poplar woods and other. forefts, browzing on the twigs and branches of trees; they likewife often feed on marfh plants, and are faid to be very fond of the Anagyris foctida, 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, fquare, 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 fharp 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 flort; the hoofs are much divided, and the fpurious hoofs large and loofe: The general colour is a hoary black, greyeft about the face. It is a mild animal, except in the feafon of love, when wounded, or when teazed with the gad-fly. The pace is very ungraceful, confifting of a high fhambling trot, during which thcir fpurious hoofs make a loud rattling noife; but they go with great fwiftnefs, and were formerly ufed in Sweden to draw fledges, 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 mulket-ball, and makes excellent buff leather. The fiefh is reckoned very light and nourifhing; the nofe is efteemed a great delicacy; and the tongues, when falted, are much admired.

## B. Irifh Elk.-C. Alces fofofilis.

The horns have long beams, are paimated, and are furnifhed with flatted brow antlers; the frags on the palms are very long; and there is one long fnag on the inner edge of each palm. Penn. hifr. of quad. p. 97. ph. xi. f. i.

The horns of this fpecies are-frequently dug ap from peat-bogs in Ireland, but the living animal is unknown, having long been extirpated from that country; the horns are vaftly larger than thofe of the Elk, befides being very differently formed, and meafure fometimes eight feet long each, and fourteen feet between their tips.

## 2. Rein Deer:-4. Cervus Tarandus. 4.

Has long, rounded, flender horns, which bend forwards, and are palmated at the ends. Schreber, v. t. cexlsiii. A. B. C. C. Faun. Suec. 4 r. Amoen. ac. iv. I44. t. i. MIfu. ad. Tr. i. II.

Tuguvìos. Aclian. en. ii. c. 16.-Tarandus. Plin. hift. nat. viii. c. 34. Aldrov. bifulc. 859. f. p. 361. Jonft. quad. go.t. 37. Charict. exer. 12. Scheff. Lap. 321. f. p. 327.-Taugufer. Gefn. quad. 950. Aldrov. bifulc. 863. Jonft. quad.t. 37. Niuf. Worm. 337. Scheff. Lap. $33^{8 .}$. Charlet. exerc. 12. İ!cin, quad. 88. Olear muf. 16. t. 10.f. 3.-Renne, or Rein Deer. Sm. Buff. vi. $3^{15}$. pl. clxxxvi.-Rein Deer. Penn. hift. of quad. n. 43. pl. x. f. i. Aret. zool. n. .--The a:Latomy. Berchol. act. Haffn. 1671, n. 135. Houften, act. Sitockh. I774, vol. xxv. trim. 2. n. 4.
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. i. Ridinger, wild. thier. 35 .
B. Greenland Rein Deer.-4. $\beta$. Cerv. Tarandus groenlandicus.

The horns are entirely rounded, and covered with a hairy fkin; the nofe is much covered with hair. Briff. regn. an. 88. n. 4 -
Capra groenlandica, or Greenland Goat. Raj. quad. 90.-Greenland Deer. Catefb. Carol. app. p. xxviii.-Greenland Buck. Edw. av. i. t. 5 I.

Has ftraight horns, with a fingle fnag, turned forwards, at the bafe of each. Briff. regn. an. 91. n. 6.

Caribou. Charlev. nouv. Fr. iii. 129. Dobbs, Hudfon's Bay. 20. 21. - Macarib, Caribo, or Pohano. Joffelyn, New Eng. 20.

Inlabits chiefly the mof northern mountains of Europe, Afia, and America, as far as Spitfbergen, Greenland, and Kamtfchatka; is fornd likewife in the more fouthern parts of Ruffia, and even in Sardinia, though fmaller; the horns have likewife been found in marle pits in Scotland.-In Lapland the wild Rein deer inhabit the higheft mountains during fummer, and defcend into the defert plains in winter, from which they are again driven to the mountains in the fummer to efcape from the perfecution of various infects, particularly the Culex pipiens, Gad-lly, and Tabanus tarandi. They feed much on a fpecies of Livcr-wort called from them Licken rangiferinus, efpecially in winter, when they have to dig it out with their feet from below the fnow, under many feet deep of which it lies buried. The male cafts his horns immediately after the rutting feafon, about the end of November; and the female, which has horns like the male, though not fo large, preferves hers till the middle of May, when fhe drops her fawns. She goes thisty-thrce weeks with yourg, and frequently has twins. In a domefticated ftate, the Rein deer feldom exceeds fixteen years of age. In Lapland great numbers of thefe animals are kept tame by the natives, to whom they are of indifpenfible ufe, for drawing fledges, and for fupplying them with milk, flefh, and fkins as clothing: The Samojedes likewife ufe their hides for faiis. When caftrated the male feldon lofes his horns till nine years old.
In a domeftic flate the Rein deer feldom exceeds-three feet high, but the wild animals are larger, fometimes four and a baif feet at the choulder. The horns of the Rein deer, though long, are rather flender; the beams are very long, bend firf a little backward, are then graduaily curved, and the palms at the ends fand forwards; the brow : ntlers rife from the main beams clofe to the head, have flort beams, broad palms, and numcrous fnags; and generally, immetiately over thefe, a branch rifes from each main beam, which projects forwards, and is fomewhat palmated at the ends, with feveral fiiags. The upper parts of the boly are of a brown aft colour, growing gradually ligiter with age, till it becomes white at laft; the fpace romn' the mouth, the whole under parts of the body, and the tail, are white; the orbits are furrcunded with black; the fur is very thickly fet, and on the fore part
of the neck it is long and pendent ; the tail is very fhort ; the hoofs are large and concave; the male prepuce is much pendent; the female has fix teats, the two pofterior of which are impervious.

## 3. Fallow Deer.-5. Cervus Dama. 5.

The horns are compreffed, branched, and bending forwards; having their extremities palnated. Schreber, v. t. ccxlix. A. B.
Cervus Dama vulgaris, or common Fallow Deer, having the extremities of the horns palmated. Brifl. regn. an. 9I. n. 7.-Cervus palmatus, Dama, or Dama-cervus. Klein, quad. 25.-Cervus
 neg. ii. 293. 296.-Platyceros. Plin. hift. nat. xi. c. 37.-Dama vulgaris. Gefn. 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. Gefn. thierb. 202. f. p. 203. Gr. a Mellin, Schr. d. Berl. naturf. gef. ii. 9.-Dain, Daine, or Fallow Deer. Sm. Buff. iv. II3. pl. liv. lv.-Fallow Deer. Penn. hift. of quad. n. 44. Brit. zool. i. 34. Arct. zool. i. 33. B.-The anatomy of a Hermaphrodite Fallow Deer. Journ. encyclop. i776, P. ii.
Inhabits Europe, and Afia as far as the northern parts of Perfia and China, Greece, and Paleftine, being the $\mathcal{F a c h m u r}$ of the Scriptures.-This fpecies is not fo plentiful or univerfal as the Stag; few are now found wild in Britain ; but numbers are kept in parks. The colour varies, being fometimes reddith, fometimes deep brown, frequently fpotted with white or grey, and rarely altogether white. It is gregarious, feeding always in flocks; is very eafily confined to parks, and very readily made tame; it feldom lives above twenty years. The female 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 inclofure, or fenced out by means of a cord fixed horizontally two or three feet above the ground.

## ** Having rounded horns.

Has long, rounded, upright branched horns. Schreber, v. t. ccslvii. A. B. C.D. E.
Eスapos. Arift. hiff. an. ii. c. 7. and 18. vi. c. 29. ix. c. 6. Aelian, an. vi. c. in. and 13. viic. 39. xii. c. I8. Oppian, cyneg. ii. I76.-Cervus. Plin. hift. nat. viii. c. 32 . Gefn. quad. 354 Sclwwenkf. theriotr. 8 I. Aldrov. bifulc. 769. f. p. 774. Jonft. quad. 82. t. 32. 35. Muf. 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-Hirfch, Wild oder thier. Ridinger, jagdb. th. t. 4. 5.-Stag. Penn. hift. of quad. n. 45. Arct. zool. n. 5.-Red Deer, or Stag. Brit. zool. i. 34.-Cerf, Biche, et Faon; Stag, Hart, or Red Deer. Sm. Buff. 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.

## B. Maned Stag.-3. B. 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. $8 \%$ n $2 .-{ }^{\prime} 1 \pi \pi \epsilon \lambda \alpha$ ¢os. Arift.
 let. exerc. 12.-Hippelaphus mas, or Rofshirfch. Jonft. quad. t. 35--Brandhirfch, and Pferdhirfch. Gefn. thierb. 199. 200 ,
\%. Corfican Stag.-3. r. C. Elaphus corficanus.
Is fmaller, and of a deep brown colour. Erxleb. mam. 304.
Corfican Stag, with fraight antlers, or Small Red Deer. Sm. Buff. iv. p. ing.pl. liii.-Small Stag of Barbary? Shaw's travels, 243 .

Having very large horns. Erxleb. man. 305. Briff. regn. an. 88. n. 3.
Stag. Brickn. North Carol. I09.-Virgivian Stag. Dale, Phil. Tranf. n. 444. p. 384.-Cárolinian Stag. Lawfon, Carol. 123.-American Stag. Catelby, Carol. app. xxviii.

About the fize of a Common Dog. Du Halde, i. 122. Penn. hift. of quad. n. ro4.
Inhabits the province of Sunnan in China.
The feveral varietiss 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 fhy animal, but becomes furious and dangerous in the rutting feafon, in the months of Auguit and September, and when teazed with the gad-fly. In Auguft 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 dirop their horns in February and March, and recover them completely in July. The Stag is a very elegantly made animal, ufually about three feet and a half high at the fhoulder; its general colorr, on the upper parts of the body, is a reddifh brown, and whitifh 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 diftinct furrow, or lachrymal fofla : The number of branches or fnags on the horns increafes yearly, even as far as twenty on each horn; but in extreme age they diminifh: The flkin makes a pliable and durable leather, ufually named Buck-fkin, or Doe-fkin, and is employed for making gloves and breeches; the horns are ufed for making handles to knives, fwords, and other inftruments, and by chemifts for diftilling volatile alkali : The Stag feeds on grafs, 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 flefh, under the name of venifon, is reckoned a great delicacy.

## 5. Virginian Deer.-6. Gervus virginianus. 8.

Has flender horns, bending much forwards, very flightly palmated at the extremis ties, with numerous branches on the interior edges, and having no brow antlers. Penn. hift. of quad. n. 46 . pl. xi. f. 2.

Dama virginiana. Raj. quad. 86.-Cervus platyceros. Sloan, Jam. ii. 328.-Chevreuil. Du Pratz, Louif. ii. 69.-Fallow Deer. Lawfon, Carol. 123. Caterby, Carol. app. xxviii. Bricknell, North. Carol. 109.

Inhabits Carolina and Virginia.-Has a confiderable refemblance to the Fallow Deer, but is higher at the fhoulders, and has a longer tail and longer legs; the colour likewife is lighter, beng an afh coloured or cinereous brown. It is gregarious, very reftlefs, active, and eafily domefticated ; and in winter lives much on the mofs, or lichens, which grow on the trunks of trees. The fleth is dry, but ufeful to the Indians, who dry it for their winter provifion. The fkins are a great article of commerce, and make excellent pliable leather for gloves and breeches.

## 6. Axis.-Gervus Axis.

Has erect rounded horns, with three fnags or branches pointing upwards, and no brow antlers.

The body is fpotted with white: The horns are flender, and the firf branch is near the bafe, Syft. nat. ed. Gmel. 179. n. 9. Penn. hift. 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 Decr. Nieuhoff, in Church. voy. i. 262.
Inhabits the banks of the Ganges and the illand of Ceylon. $\cdots$ Is about the fize of a Fallow Deer; of a light red colour, beautifully marked with white fpots, and having a white line along the lower part of the fides near the belly: The tail is longifh, of a red colour above and white beneath. This animal is very eafily tamed, and bears the climate of Europe, having bred in the Prince of Orange's menageric at the Hague.

## ß. Middle Axis.-C. Axis unicolor.

The body is of an uniform light red colour : The horns are rough, ftrong, and threeforked. Penn. hift. of quad. n. 48.
Inhabits the dry hilly forefts of Ceylon, Borneo, Celebes, and Java.-Is about the fize of a Stag, being larger than the Spotted Axis; goes together in herds of feveral hundreds; becomes very fat. The flefh is cut into fmall pieces, falted, and dried in the fun, for provifion.

## r. White Axis.-C. Axis albus.

Refembles the former in every thing, except being white. Penn. hift. of quad. p. iot.
Inhabits with the former, and is reckoned a great rarity.

Of a reddifh brown colour, with very thick, large, frong, and rugged three-forked horns. Pemn. hift. of quad. n. 48 *.

Inhabits the marfhes of Borneo and Ceylon.-Is as large as a Horfe, with whitith horns: The animals of this variety are called Elanden, or Elks, by the Dutch, and Mejangan Banjee, or Water Stags, by the Javanefe and Malays.

Some fpecies 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 iflands. The Axis has the fenfe of fmelling in a very nice degree, infomuch that, when tame, they will not eat bread which has been breathed on; they agree in this circumftance with feveral other animals of the fame genus, and of the Antilope, and Goat kinds.

Has flender three-forked horns; the upper parts of the body are brown, and the under parts afh coloured. Schreber, v. t. ccli. Penn. hift. of quad. n. $49 . D^{0}$. 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 meafure three and a half feet long, is two feet two inches high at the fhoulder, and two inches higher at the rump; the tail is eight inches long. It is caught in pit-falls, covered with fome flight materials.
B. Spotted Porcine Deer.-G. porcinus maculatus.

Has flightly three-forked horns, the firft fnag being very near the head; the body is of
a yellowifh colour marked with white fpots.
Hog-Stag. Sm. Buff. iv. III. pl. liii. $\mathrm{N}^{\mathrm{o}} .2$.
Is-faid to have been brought from the Cape of Good Hope.-This feems much the fame with the Porcine Deer of Mr Pennant, defcribed above, except the colour, and the fpots: The fize is very much the fame; the noftrils are black, with a blackinh band at the corners of the mouth; the colour of the head is mixed with grey, the fore-head and fides of the eyes being brown; the ears are very large, garnifhed within with white hairs, and on the outfide covered with fmooth brown hair, mixed with yellow ; the top of the back is brownifh ; the tail is yellow above, and white below ; and the legs are of a dark, or blackifh, brown colour.

Has three longitudinal ribs extending from the horns to the eyes; and a tulk hanging out from each fide of the upper jaw. Schreber, v. t. ccliv.
Rib-faced Deer. Penn. hift. of quad. n. $\mathrm{g}^{\circ}$.
Inhabits Java and Ceylon.-This fpecies is fomewhat lefs than the Roe, and refembles the Porcine Deer in fhape. The horns are placed on a boney procefs, which rifes three inches above the ikull, and is covered with hair *; they are three-forked, the uppermoft fnag or branch being hooked. In

[^19]the Malay language it is called Kidang, and Munt-jak by the Javanefe. It is very common, going about only in fingle families, and is much efteemed for its flefh.
9. Roe.-10. Cervus Capreolus. 6.

Has ftrong, fhort, rugged, upright, rounded horns, which are two forked at the ends; the body is of a reddifh brown colour. Schreber, v. t. cclii. A. B. Erxleb. mam. $3_{13}$. Briff. regn. an. 89. n. 5 .

Caprea. Plin. hift. nat. viii. c. $53.5^{8 .}$ x. c. 72. xi. c. 37 . Aldrov. bifulc. $73^{8 \text {. Jonft. quad. } 77 .}$ t. 3 r. 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. lví. Ivii. - Ra-djur. Faun. Suec. 43.-Rhabock. Gefn. thierb. 144.f. p. 144. 145. Ridinger, jagdb. th. t. 9.-Roe. Penn. hif. of quad. n. 5 1. Arct. zool. n. 7. Roebuck. Brit. zool. i. 139. 200.

Inhabits Europe and Afia; is frequent in the Highlatids of Scotland.-Frequents the leffer woody mountains, and, in winter, feeds on the young fhoots of Fir and Beech. It is an active fhy animal, which generally keeps in fmall flocks or families; never grows fat, but is reckoned delicate venfon. In fummer the hair is very fhort and fmooth, 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 flender, and have a tuft of long hair below the firf joint of each hind leg; the rump and under fide of the tail are white; the face is blackifh. This fpecies 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 caft in autumn, and recovered during winter. The female goes, twenty or twenty-two weeks with young, and has often twins in the month of April. Befides the twoforked extremity, each of the horns have one, two, three, or five lateral fnags or branches, according to age. Charlevoix mentions Roes in North America; but, as the other writers, Lawfon, Catelby, Kalm, and Du Pratz, on the natural hiftory of that country, do not feak of them, he is probably miftaken.

## 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 Francle Comté, and is probably only an accidental, and 0 very rare variety of the Roe.

Has no taii; 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-lefs Roe. Penn. hift. of quad. n. 5 r. A. Arct. zool. i. 33 . A.

Inlabits the woody mountains of Rufia and Siberia beyond the Volgi', and in Hircania.-This fecies refembles the Roe, but is confiderably larger ; it is of the fame deep red colour, with a large bed of white on the rump and buttorks, extending up the back; the fur is excelively thick, and in fprisg
fpring is quite rough and erect; on the belly and limbs it is yellowifh; the fpace round the nofe, and the fides of the under lip are black, but the point of the lip is white; the hairs of the eye-lids ${ }_{3}$ and round the orbits, are long and black; the honns are very rugged at the bafes, and full of knobs; the ears are covered on the infide with a very thick white fur. At the approach of winter, this animal becomes hoary, and defcends into the plains; it is called Dikeja Roza by the Ruffians, Saiga by the Tartars, which name is ufed in Ruffia for the Scythian Antelope, and Ahu, or Aha, by the Perfians.

## I I. Mexican Deer.-9. Cervus mexicanus. I I.

Has ftrong, thick, rugged horns, bending forwards, three-forked at their extremities, and having one erect fnag about two inches above the bafe: Of a reddifh colour. Penn. hift. of quad. n. 52 .

Cervus major, or Biche des bois, with very fhort finall horns. Barrere, Fr. equin. 15 r.-Teut-lal-maçame. Hernand. mex. 324.-Baieu. Bancroft, Guian. 122.

Inhabits New Spain, Guiana, and Brafil.-This fpecies is about the fize of the Roe; it is of a reddifh colour, and is fpotted 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 flefh is much inferior to venifon.

## *** Uncertain fpecies.

Befides thefe above defcribed, there are feveral fpecies or varieties of Deer, mentioned in authors, which are fo flightly noticed as to render it difficult to determine whether they are diftinct fpecies, or only varieties of fome of thofe already taken notice of.

є. Biche des paletuviers.-Cervus paludofus.
Barrere, in loco citat.
a. Tema-maçame,-Cervus Temana.

Hernand. hift. nat. mexic. p. 325 -

Marcgr. Braf. 235. Pifo, Ind. 97. f. p. 98.

> \%. Cuguacu-ete.-Cervus Cuguete.

Marcgr. Braf. Pifo, Ind. loc. cit.

## 8. Biche des Bois.-Cervus fylvaticus.

Barrere, France equinoct. 15 .

> گ. Mazame-Cervus Mazame.

Smellie's ed. of Buffon, vii. 30 .
n. Cariacou-Cervus Cariacou.

This animal, from having no horns, feems the female of fome fpecies of Deer, whether of any of thofe already defcribed is uncertain. Sm. Buff. vii. 34. pl. cci.

## Ө. Barallou Hind.-Cervus Barallou.

 Smellie's ed. of Buffon, iv. 135 .
## ı. Wood Hind.-Cervus nemorofus.

Smellie's ed. of Buffon, in loco citat.
x. Savanna Hind.-Cervus pratenfis.

Smellie's ed. of Buffon, in loco citat.

## 入. Indian Deer.-Cervus indicus.

Mr Pennant defcribes a pair of horns in the Mufeum of the Royal Society, which belong to a fpecies of Deer, and gives an engraving of them, Hift. of quad. p. iro. pl. xi.f. 3.; thefe are, by Grew, in his rarities, p. 24. faid to belong to an Indian Roebuck, but they are evidently from fome very different fpecies. They are very thick and ftrong, and the bafe is very rugged; a little above the bafe of each a fharp fnag rifes perpendicularly, which has a fmaller fnag at its bafe; the upper part of each horn turns forwards, is broad, divided into two branches, and is palmated, with numerous. finags. Thefe horns are each fixteen inclies long, and the fame diftance between their tips.

## $\mu$. Squinaton-Cervus Squinaton.

Another obfcure fpecies is mentioned by $\mathrm{Mr}_{1}$-Pennant, under the name of Squinaton, or Scenoontung, which inhabits the country weft from Hudfon's Bay; all that is known of this animal, is, that it is lefs than a Buck, and larger than a Roe, with finer legs, and fharper head. Penn. hift. of quad. p. IIO.

The animal named Grey Deer, n. 53. by Mr Pennant, and Guinea Deer, by Gmelin, Syft. nat. ed. Gm. 181. n. 7 . which is defribed from the Muf. Ad. Fr. i. 12. is an obfure fpecies, and it is doubtful whether it belongs to the genus of Dccr, Mufk, or Antilope, as the fipecimen defcribed had no horns. It is of the fize of a Cat, of a grey colour on the upper parts, and blackifh underneath, having longifi ears; with a large black fot above the eyes, a black line between the ears, a perpendicular black line on each fide of the throat, the middle of the breaft black, the fore legs and fides of the belly, as far as the hams, marked with black, and the under fide of the tail is black.

## $\xi$ Unknown Deer.-Cervus awomalus.

There are in Mr Weir's.Mufeum at Elinburgh the horns of a fmali fecies of Deer, faid to have come from fonc part of America; which I have not feen defribed in the writings of any naturolft; they arc about cight inches long, and fand erect ; their beams and branches are quite thin and flattened, dividing each into two branches, which are each two furked; from the lower fart of each beam a fingle fin\% projegs forwards, of the fame thin flatted appearnce with all the reft; all the fiags and and branches cad fquare and abrupt. Thefe are engraied iur this work. - T.

# XXXVI. GIRAFFE.-35. CAMELOPARDALIS. Has fimple perfiftent horns, covered with fkin, blunt and abrupt at the ends, and terminated with a tuft of black hair. In the lower jaw are eight broad, thin fore-teeth; the outermoft, in each fide, being deeply divided into two lobes. 

Of this genus there is but one fpecies known; or rather the animal, though nearly allied to the Deer and Antelope kinds, is fo fingular in its ftructure as to require being conficiered, in fyftem, as a diftinct genus..

## 1. Camelopardalis. - r. Camelopardalis Giraffa.

Is remarkably higher at the fhoulder than at the rump. Schreber, v. t. cclv.
Camelopardalis. Plin. hift. nat. viii. c. 18. Dion Caffius, xliii. Oppian, cyneg. iii. 461. Gefr. quad. 160. Aldrov. bifulc: 927 . f. p. 93 1. Jonf. quad. 98. t. 39. 45. Charelet. exerc. 13.' Raj. quad. go. Pr. Alp. Aeg. i. 23 6. t. 14. f. 4. Ludolf, 压th. 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.-Orafus, or Oraflus. Vincent. fpec. doctr. 19. c. 97. Albert. de anim. 223.-Giraffa, Gyraffa, or Giraffe. Nieremb. hift. nat. 191. Belon, obf. i18. f. p. 119. Theven. cofmogr. i. $3^{88}$. b. fig. fol. 389 . a. Lobo, Abyfi. i. 292. Sm. Buff. vii. 107. pl. cexi. Leo, Afr. 337 . Klein, quad. Briff. quad. 6 r.-Camelus indicus, or Indian Camel. Jonft. quad. t.40... Camelopard Giraffe. Penn. hift. of quad. 11. 15.-Tragus Giraffa. Zimmerm. 534.Camelpard. Gefn. thierb. 236. f. p. 237. 238.

Inhabits Sennar; Ethiopia, and the interior parts of Africa; rarely in Abyfinia, 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 fhcots of trees, but likewife grazes occafionally, at which time it is obliged to fipread its fore feet very wide. It is very gentle, timaid, and fay; runs very aukwardly, and is eafly taken, but is very fcarce; when about to lie down, it kneels like the Camel ; when ftanding erect and holding up its head, it meafures feventeen feet from the crown of the head to the ground, eighteen feet from the point of the nofe to the end of the tail, is only nine feet high at the rump, the neck is feven feet long, ahd the diftance from the withers to the rump is fix feet. This is a very handfome animal, of a dirty white, or mixed reddifh and white colour, marked with numerous large rufty fpots; the head fomewhat refembles that of a Horfe, having middle fized, erect, pointed ears, and fhort erect horns about fix inches long, which are covered with $\approx$ lairy Kin ; thefe are blunt, as if cut off at the ends, and tufted with a brufh of coarfe black hairs; the neck is long, thin, and erect, and is provided on the ridge with a fhort erect mane, which extends along the back almoft 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, coarfe hairs at the end. It is a vulgar error that the fore legs are longer than thofe behind, for the great difproportion between the height of the fore and hind parts, depends on the great depth of the fhoulders, and the length of the neck.
V.oL. I.

## XXXVII. A N TELOPE.-36. $A N T I L O P E$.

## Has perffitent horns, which are hollow, and filled with a flint or fpongey bone; they are moftly round and erected, and are frequently twifted fpirally, or furrounded with rings. The lower jaw has eight broad fore-teeth; the upper jaw none; and there are no tufks in either.

To this character Mr Pennant adds, that the limbs are light and elegantly made; and that the in fides of the ears are marked with three longitudinal feathered lines of hair. None of the numerous fpecies of this genus are found in America; they are mofly confined to Afia and Africa, inhabiting the hotteft regions of the old world, or the temperate zones near the Tropics, only two fpecies being found in Europe, the Chamois and Saiga. They chiefly inhabit hilly countries, though fome refide in the plains; and fome fpecies form herds of two or three thoufands, while others keep in fmall troops of only five or fix together. They often clamber up rocks, and brouze like Goats, and frequently feed on tender fhoots of trees. They are very elegantly made, active, reftefs, timid, fhy, and aftonifhingly fwift, running with vaft bounds, and fpringing or leaping with furprifing elafticity; 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 Lin naeus, in his former editions, and by feveral other naturalifts; but Dr Gmelin, in imitation of Pennant, Erxleben, and Pallas, has formed them with great propriety into a diftinct genus. In the form of their bodies they agree with Deer, and in the circumftances of their horns they refemble the Goats; they have all gall-bladders; diftinct lachrymal gutters, or pits, under the eyes ; a plait of the fkin divided into feveral cells in the groins; brufhes of hair on the knees; and beautiful black eyes. In general their flefh is excellent, though fome fpecies have a rank hircine, or mufky Havour.

Of a bluifh colour; the horns are roundifh, annulated ${ }^{*}$, and bent backwards in an arch. Schreber, v. t. cclxxxviii. Pall. mifc. zool. 4. Spic. zool. i. 6. and wii. 12.

Blauer Bock. Kolben, 14 r.—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. Muf. Lev. Muf.

Inhabits the country to the north of the Cape of Good Hope.-This fpecies 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 bluifh 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 fharp pointed, and above nine inches long; the horns are arched, bending backwards, and marked with twenty prominent rings, bat become fmooth, taper, and harp at the ends; the hair on the fur is long; the

[^20]tail is about feven inches long, and is terminated by a tuft of longifh hairs. This fpecies, 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 Lerzuia. 2.

Of a reddifh colour, with a remarkable tuft of hair on the nape of the neck: The horns are wrinkled, bent backwards, diftant in the middle, and approach each other at the bafe and points. Pallas, fpic. zool. xii. 12 .

Antilope Kob, with the horns annulated at the bafe, bent outwards in the middle, and much approaching at the tips. Erxl. mamm. 293. n1. 23.-Kob, or Little brown Cow. Sm. Buff. vi. 406. $\mathrm{D}^{\circ}$. Fr. ed. xii. 210. t. xxxii. f. I:-Fifh-tall, or Lerwee. Shaw, It. i. 313.-Gambian Antilope. Penn. hift. of quad. n. 4 I .

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 brufhes of hair on the knees of the fore legs. The horns are about thirteen inches long, at the bafe they meafure five inches and a half in circumference, their lower parts are furrounded with eight or nine rings, the middle parts are very diftant, but the points, which are fmooth, come very near each other.

## 3. Chamois.-3. Antilope Rupicapra. 3.

Has fmooth, rounded, erect horns, which are hooked backwards at the ends. Schreber, v. t. cclxxix.
Antilope rupicapra. Pall. mifc. zool. 7. Spic. zool. i. 4. and xii. 12. Erxleb. mamm. 268. n. I.-Capra rupicapra. Syft. nat. ed. xii. 95. n. 4.-Hircus rupicapra. Brifi. regn. an. 66. n. 4.-A; ${ }^{\prime}$ aygros. Oppian. cyneg. ii. 338.-Rupicapra. Plin. hift. nat. viii.c. 53. xi. c. 37. Gefin. quad.. 321. f. p. 3 19. Aldr. bif. 725 .f. p. 727. Jonft. quad. 74. t. 27. 32 . Charlet. exerc. 9. Wagn. helv. 183. Raj. quad. 78. Klein, quad. 17. Scheuchz. It. Alp. i. 155. Rzaczinf. Pol. 223.Chamois, Cemas, or Yfard. Obf. de Belon, 54.-Yfard, Yfarus, or Sarris. Gafton, ap. Fouilloux Vener. 99.-Gems. Gefn. 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. Buff. vi. 363. pl. clxxxyiii. Penn. hift. of quad. n. 17.

Inhabits the Alps of Dauphiny, Savoy, Swifferland, and Italy; the Pyrinean, Carpathian, Grecian ${ }_{2}$. Cretan, Caufcaffan, and. Taurus mountains.-Dwells in the moft inacceffible rocky parts of the mountains, but feldom fo high as the Ibex, and generally keeps in confiderable flocks; feeds, moftly Eefore funrife and after funfet, on the twigs of fhrubs, herbs, and roots, being particularly fond of the Meum athamanta, and certain balls, found in their fomachs, called $A$ gagropilae, are fuppofed by Kramer, Hift. nat. Auitr. 320 . to be occafioned by that kind of food; in winter they retreat into hollows of the rocks to avoid, the avelenches, or fhooting of the fnow. This animal has very nice feufations of fmelling, fight; and:hearing, and is exceedingly fhy, timid, and fwift; each herd has a leader, who keeps watch on an eminence while the reft are feeding, and gives a fort of hifs, as a fig331 , on feeing an enemy; they are hunted in winter for their fkins, which make excellent foft fhamoy leather, and for their flefh, which is reckoned very delicate; the fport is both hazardous and

Jaborious, on account of the rugged mountains and rocks which they frequent, and they are moftly 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 reddifh brown colour, with a blackihh line along the back; the fore-head, top of the head, cheeks, throat, and infides of the ears, are white; the upper lip is half divided; the knees lhave brufhes, or bunches of hair; the tail is fhort, and blackilh underneath; the belly is yellowifh; 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 fkin. 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. 40

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. 3og. 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. hif. 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 Kapas, or Cemas, of 乍lian, lib. xiv. c. 14 .

Inhabits Senegal.-This animal is three feet ten inches in length, from the nofe to the origin of thie tail, and two feet eight inches high at the fhoulder; the greater part of the body is white, but the back, upper parts of the fides, and the head, are tawny, or yellowifh; there are, however, varieties in this fpecies as to colour. Both fexes are furnifhed with horns, which are round, about eight inches long, confiderably bent or hooked forwards, and fharp pointed; there are only fix fore-teeth in the lower jaw. The Nanguer is very fwift, and is eafily tamed; Alian compares the flight of the $\mathrm{K}_{\text {in }} / \boldsymbol{z} 5$, which Mr Pennant fuppofes to be the animal here defcribed, to the rapidity of a whirlwind.

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\text { 5. Nagor.-5. Antilope redunca. } 5
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Of a reddifh colour, with fliff 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. T3. n. 5.-Nagor. Sm. Buff. vii. $3^{8 .}$ pl. ccii.—Red Antilope. Penn. hift. of quad. n. 29.

Inhabits Senegal, and at the Cape of Good Hope.-The length of this fpecies 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 bafe, and are bent gently forwards; the ears are almoft as long as the horns : The general colour is a pale reddifh, paleft on the cheft. According to Dr Gmelin, this fpecies is the E muses of Alian.

## 6. Biggel.-6. Antilope Tragocamelus. 6.

The horns are bent forwards; the neck has a fhort mane; on the fhoulders is a large sufted hump; the tail is long, and is terminated with flowing hairs. Schreber, v. t. cclaii.

Antilope Tragocamelus. Pallas, mifc. zool. 5. Spic. zool. 1. 9. xii. i3. n. 6. Erxleb. mamm. 279.- Biggel. Mandefloe, voy. in Harris's coll. of voy. i. 775.-Quadruped from Bengal. Parfons,
 of quad. n. 26. .

Inhabits India, -This animal refembies the Camel in the reverfed arch of its neck, and in its manner of knceling down ; it is near five feet high, when meafured to the top of the hump. The hair is foft, fhort, fmooth, and light afh coloured, in fome parts dufky, beneath the breaft and under the tail it is white, and on the fore-head is a black fpot of a rhomboid figure; the tail is about twentytwo inches long, and is terminated with longifh hairs; on the lower part of the cheft the fkin hangs loofe like the dewlap of a cow, and is covered with longifh hair ; the hinder parts of the body refemble thofe of an Afs; the limbs are flender; the horns are about feven inches long.

## 7. Nylgau.-7. Antilope picta. 7.

The horas are bent forwards; the neck and part of the back has a flort mane; the fore part of the throat has a long tuft of black hairs; the tail is long, and tufted at the end. Hunter, in Phil. Tranf. lxi. I70.t. v.
Antilope piça, or painted Antelope. Schreber, v. t. cclxiii. A. B. Pallas, fpic. zool. xii. 14. n. 7.-Antilope albipes. Erxleb. mam. 280. -White-footed Antilope. Penn. hift. of quad. n. 27. pl. vii.

Inhabits India.-This fpecies is four feet and an inch high at the fhoulder. The male is of a dark grey colour, with fhort horns; thefe are triangular and diftant at their bafes, and blunt at the ends, which bend a little forwards; there is a large white fpot on the neck, juft above the tuft of hair, another between the fore legs, one on each fide behind the fhoulder joint, one on each fore foot, and two on each hind foot, above the hoof: The female 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 fhort black mane, and the long tail is tufted at the end with black hairs; the ears of both are large, and fimilarly marked with two tranfverfe black fripes; and both have a long tuft of black hairs on the fore part of the neck or throat, about the middle. 'This animal is ufually very gentle and eafily tamed, but fometimes the male is very vicious; they have bred in England; the female is fuppofed to go nine months with young, and brings two at a birth. The name Nyl-ghau, ufed in India, fignifies Blue, or Grey Bulls.

The horns are pale and almoft tranfparent, diftant at the bafes, and bent in form of a lyre *, having each three curvatures; the nofe is very cartilaginous, much arched, thick, and feems truncated at the end. Pallas, mifc. zool. 6. Spic. zool. xii. 14. n. 8. and

* In defcribing the horts of the fpecies of this genus, from the peculiarities of which fome of the moft Ariking fpecific characters are derived, Dr Gmelin, in feveral, employs the term lyratus, or bent in form of an ancient lyre, that is receding in the middle, approaching towards the fummits, and again receding from each other.-. T .

21. t. I. and 3. f. 6. 9. ro. II. S. G. Gmelin, It. ii. I74. t. i2.; and Nov. com. Petrop; xvi. P. i. 5 12. Forfter, in Phil. Tranf. Ivii. 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. 1 1.-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. Dº. 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. $\overline{7} 63$. Charlet. exerc. ii. Rzaczinfci, Pol. 224. auct. 320.
Inhabits Poland, Moldavia, the Carpathian mountains, Caucaffus, about the Cafpian and Euxine feas, near lake Aral, in the Altaic chain, and generally from the Danube to the Irtifh, never going farther north than about the fifty-fifth degree of latitude.-They dwell moftly 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 fmall parcels: They are exceedingly fhy and timid; amazingly fwift, but foon fatigued; their voice refembles the bleating of fheep; they have a very quick fenfe of fmelling, whichobliges the hunters always to approach them againft the wind; and, when feeding or refting, 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 obftinate, when taken, as torefufe nourifhment. They frequently walk backwards when feeding, and pluck the grafs 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 fpecies of the genus, but from the whole order: The fur in fummer is very fhort, of a grey colour, mixed with yellow, and darker on the legs below the knees; the fpace about the cheeks is whitifh; 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 furnifhed with brufhes 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 is. much arched, thick, and fwelling, with very open noftrils, but after death it grows flaccid, having no. os nafi, or feptum; the horns are about eleven inches long, of a pale yellow colour, almoft tranfparent, the greateft part of their length is furrounded with rings, and the extrenities are finooth. 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, otherwife very timid, will fight boldly in defence of their mates; and before the middle of May the females produce moftly one at a birth, the young animal being covered with a very. foft, waved, and curled fieece, like that of a Lamb. They are hunted with guns, dogs, or even with eagles, for the fake of their homs and flins; they grow very fat in fummer, but the flefh is fcarcely: 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 thie horns of this fpecies are fubject to very great variety in figure, notwithfanding the deferption given in the character; but they may always be diftinguifhed by their pale colour and femitrenfuarency, mofe other Antelopes having black opake horns.

Of a reddifh coiour, thaving the horns bent in forn of a lyre, and no brufhes on the knees. Fall. fpic. 2oce. xii. 14. . . 9. and p: 46. t. 2. 3. f. 14.--17.

Antilope. Bell, trav. i. $3^{11}$. $3^{19}$ - Capra flava, Hoang Yang, Whang Yang, or Yellow Goat. Du Halde, Chin. ii. 253. 278. 290.-Ablavos. Le Brun, i. 11 5.-Capra gutturofa. Mefferfchmidt, muf. Petrop. i. 336. n. 12.-Caprea campeftris gutturofa. J. G. Gmel. nov. com. Petrop. v. $347^{\circ}$ t. 9.-Tzeiran. Sm. Buff. vi. 405 .-Chinefe Antilope. Penn. hift. of quad. n. $3^{6 .}$

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 fame fize and form with the Common Antelope, being about four feet four inches long, and two feet and a half high at the floulders; the horns are about nine inches long, furrounded with about twenty rings, or annular wrinkles, almoft 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 circumitance they differ from the horns of the Saiga, which are almoft tranfparent; the lachrymal furrows under the eyes are very fmall ; on the fore part of the neck is a large moveable protuberance, occafioned by a fingular conformation of the wind-pipe; the cells in the groins are very large; in fummer the fur is fhort, clofe, and tawny, or of a rufty grey colour, on the upper parts of the body, and whitifh on the lower parts; but in winter it grows long, rough, and hoary, fo as to feem almoft white at a diftance: The head is thick, with a blunt nofe, convex on its upper part ; the ears are fmall and pointed; the tail is fhort. This fpecies keeps in confiderable flocks, moftly in mountainous and rocky places, or in dry and funny paftures, feeding only on fweet and tender herbs; they are extremely fwift, and take prodigious leaps, and, though very fhy and timid, will not take the water even when driven to extremity, and are equally fearful of woods; when taken young they are eafily 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 fame 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 flefh, and the horns are a confiderable article of commerce with the Chinefe.

## 10. Perfian Antelope.-10. Antilope fubgutturofa. 23.

The horns are bent in form of a lyre; the upper parts of the body are of a brownifh afh colour, the under parts pure white, with a yellowifh white fripe along each fide. Schreber, v. t. cclxx. B. Galdenftedt, in act. Petrop. 2n. 1778, i. 25 r. t. 9.--12.

Inhabits Perfia between the Cafpian and Euxine.-This fpecies refembles the Roe in fize and appearance ; it lives in large flocks, feeding chiefly on the Artemifia pontica; the horns are above thirteen inches long, and fmooth at the points; the throat has a degree of protuberance at the fore part, owing to the fize of the head of the wind-pipe; and the knees are provided with brufhes. The female brings forth in May. The flefh of this fpecies is reckoned extremely good.

## 11. White-faced Antelope.-II. 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. fp. zool. i. ro. xii. 15. n. 1o. Schreber, v. t. cclxxiii, Sparrman, act. Stock. ry80, 3. 4.

Antilope Dorcas. Pall. mifc. zool. 6.-Cervicapra. Houttyn, Linn. ed. belg. iii. t. 24. f. I.Klipfpringer, or Springbock. Sparrman, voy. ii. 224. pl. 5.-White-faced Antilope. Penn. hift. of quad. n. 37 .

Inhabits the countries to the north of the Cape of Good Hope.-This fpecies is about five feet four inches long, and three feet high at the fhoulders: It runs with great velocity, and makes aftonifhing bounds, even on the moft precipitous and rocky places, fo that it is caught with great difficulty, though its flefh is much efteemed: 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 reft is fmooth, while on the females the horns have no rings; the ears are about feven inches Iong: The face is white; the cheeks and neck are bright bay; the back is brown afh 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 fhoulder joint, divides the fides from the belly, and extends down the outfide of each fore leg; the tail is about feven inches long, and is terminated with forne longifh 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 feecies, 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 fpecies to be defcribed hereafter, and it is hardly to be fuppofed that the fame fpecies fhould be found near Aleppo, and in the fouthern extremity of Africa, without exifting in the intermediate places ; befides the Count de Buffon refers Ruffel's animal to the Pafan, 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. Pern. hift. of quad. n. 35. Maffon, in Phil. Tranf. lxvi. 310.

This animal, if different from the White-faced fpecies, inhabits at the Cape of Good Hope.-It is. lefs 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 thoufands; fometimes, generally after an interval of feven or eight years, this fpecies comes from the north in flocks of many hundred thoufands, probably compelled by exceflive 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 bafe of each horn down the fide of the face, involving the orbits, to the corner of the mouth; the moft remarkable part of its defcription is, that, when alarmed, it has the power of expanding the white fripe above the tail into a circular form, which returns again to its linear form when the animal is at reft. After all, it feems uncertain if there be any difference between this animal and the White-faced Antelope immediately preceding; for, in the form of their horns and difnofition of the dark coloured bands, they exactiy agree.-T.
13. Barbary Antelope.-12. Antilope Dorcas. I 1,

The horns are bent in form of a lyre: The upper parts of the body are reddifh brown, the under parts and buttocks white, and both are divided by a dufky line along the fides. Pall. mifc. zool. 6. n. 7. Spic. zool. i. if. n. 8. xii. i5. n. if. Schreber, v. t. cclxix. Sparrm. act. Stock. 1778, ii. n. 4.

Capra Dorcas. Syft. nat. ed. xii. i. 96. n. io.-Hircus africanus, f. Gazella africana; African Goát, or Antelope. Briff. regn. an. 69. n. io.-Gazella africana, or African Antelope. Raj. quad. 80.- $\Delta$ ogras. NLlian, hift. 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. cxciv. Penn. hift. 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 firft backwards, then bend a little outwards in the middle, and the ends, which approach, revert fomewhat forwards; the knees are each furnifhed with a long brufh, or tuft of hair ; the tail is fhort, covered with longifh black hairs, and is white underneath. This fpecies is fuppofed by Dr Gmelin to be the Difchon of Mofes; perhaps the animal mentioned in the books of Solomon, and, in our tranflation, named the Roes of the mountains: It goes in large flocks, is eafily tamed, though naturally very timid, and is reckoned excellent eating.

## 14. Kevel.- 1 3. Antilope Kevella. 12.

Has large horns, which are flattened, and bent in form of a lyre: The fur is yellowifh, with pale ftreaks; and a dark.coloured band runs along each fide. Pall. mif. zool. 7. n. 9. Spic. zool. i. 12. n. 9. xii. I 5. n. 12. Schreber, v. t. cclxx.

Ahu. Kaempf. annoen. 408.-Kevel. Sm. Buff. vi. 400 . pl. cxcv.-Flat-horned Antilope. Penn. hift. of quad. n. 33 .

Inhabits Barbary, Senegal, and Perfia.-Is about the fize of a finall Roe: It lives in large flocks, and, like moft fpecies of the genus, is reckoned very delicate eating, though it has a mulky odour when alive. In both fexes the horns are furrounded with prominent rings, ufually from fourteen to eighteen, except the ends, which are fmooth; they are bent in the fame manner with thofe of the former fpecies, and in general the two animals refemble each other very much, except that the horns. of this fpecies are flatted, and have a greater number of rings.

## 15. Corine.-14. Antilope Corinna. 24:

Has very flender, fhort, fmooth, fraightifh horns, bent fightly into the form of a lyre:The upper parts of the body are yellowifh tawny, the under parts white, with a dufky fripe along the fides, and two lines on each fide of the face, the upper one white and the other black. Pall. mifc. zool. 7. n. 10. Spic. zool. i. 12. and sii. 15. n. 12., f. Schreber, v. t. cclxxi.

Corine. Sm. Buff, vi. 4or. pl. cxcri. Penn. hift. of quad. n. 38. Lev. Muf, Voz. I.

R .
Inhabits

Inhabits Senegal.-This animal is lefs than a Roc; the neck, body, and flanks are of a tawny jellow 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, almoft upright, bending a little outwards in the middle, and fomewhat approaching at the tips, the lower parts being furrounded with circular wrinkles. This fpecies refembles the Kevel, in colour, fize, fwifnefs, and mufky odour ; but differs very much from it in the figure of the horns; though Dr Gmelin, following the celebrated Pallas, is difpofed to fufpect that it is the female of that fpecies.

## 16. Bubalis.-15. Antilope Bubalis. 13.

The horns are thick, twifed firally, annulated, bent in form of a lyre, almoft fraight and upright at their ends; the head and tail are fomewhat lengthened. Pall. fp. zool. i. 12. n. 10. xii. 16. n. I3.. Erxleb. mam. 29 1.
Boverxos. Oppian, cyneg. ii. 300. Arift. an. iii. c. 2.-Bubalus. Plin. hift. nat. viii. c. is. 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. Houttuyin, ed. Lin. beig. 21 3. t. 24. f. 3.-Antilope bufelaphus. Pall. mifc. zool.-Bubale. Buff. Fr. ed. xii. 294. t. 37. 38. f. I. 3.-Bubalus. Sm. Buff. vii. i.-Vãche de Barbarie. Act. Parif. i. 205. Vaw lent. amphith. zoot. 88. t. 14.-Cervine Antilope. Penn. hift. of quad. n. 39. Lev. Mur.

Inhabits Africa, efpecialiy Barbary, but is Tikewife 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 refembling that of an $O x$ : The horns are about twenty inches long, very ftrong and black, almoft clofe at their bafes, and diftant at the points; the general colour is a reddifh brown, the belly, inner fide of the thighs, and a fpace 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 tuft of longifh hairs, and refembles that of an Afs. It feeds folitarily, gallops heavily, yet with great fwiftnefs, fights on its knees, and the flefh is reckoned rather dry. This feecies, according to Mr Pennant, is the animal called Hart-beeft at the Cape, and Sparrmann is quoted by Dr Gmelin as defcribing it under the fame name in the Stockholm Tranfactions, though the figure of the Hart-been, in his joumey to the Cape, differs very confiderably in the form of the homs, which bend much backwa.ds at their ends, from which it is more probably the next fpecies.

## 17. Koba.-Antilope Kaba.

The horns are thicik and annulated, very clofe at the roots, bent out greatly in the middle, approach again, and then recede at the ends, which are fmooth, fharp, and bent backwards.

Senegal Antilope. Penn. hiff. of quad. n. 4o. f. p. g2.-Cervus Temamaçama. Seba, muf. i. 69. t. 42. f. 4. ?--Antilope Rubalis. Pall. fpic. zool. xii. 16.-lKoba. Sm. Buff. vi. 405. D ${ }^{\circ}$. Fr. ed. xii. 210.267 . t. waxii. f. 2.-La grand vache brunne. Adanfon, vey. to Senegal. Lev. muf.

Inlabits Sencgal.-This is a large fpecies, the Ain, in Mr Pcnnant's poffeflion, being feven feet long; the lead is large and clumfy, with large ears, feven inches long; the horns are feventeen itches long and are furrounded witl fifteen prominent rings; the head and body are of a light red.
difh brown colour, with a narrow black lift down the hind part of the neck; the rump is dirty white; there is a dulky mark on each knee, and above each fetlock joint ; the tail is about a foot long, and is covered with longifh black hairs.

## 18. Gnou.-16. Antilope Gnu. $=5$.

The horns are thick, rough, and bent much forwards at the bafe, then fuddenly turned backwards, hooked, fmocth, and diftant at the ends: The neck has a mane. Sparrmann, in act. Stock. ann. 1779, i. n. 7. t. 3. Pern. hift. of quad. n. í5.
Gnu. Sparrman. voy. ii. pl. 2.-Bos Gnou. Zimmerman. 372. Journ. hiftor. 53. f. p. 54. Lev. muf.

Inhabits the country of the great Namaquas to the north of thic Cape of Cood 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 tliat 1 fure, furrowing the ground with its horas and legs; it is a fingular animal, laving 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 fect and a half long, and three feet and a half high at the thoulders; of a dark rufly brown colour, the hairs being fhort, fmooth, and tipt with white; on the breaft 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 fiff hairs on both lips; thefe on the under lip are intermixed with long briftles; on the lower part of the face, over the nofe, is a thick oblong brufh of long, friff, black, reflected 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 fhort, thick, fomewhat arched, and has a ftrong, erect, aft coloured mane, which reaches from between the horns to below the fhoulders ; the tail is long, white, and flowing, like that of a Horfe; the fect have only one fpurious hoof on each. The females are provided with horns perfectly fimilar to thofe of the males, but in the young animals they are quite ftraight. The flefh is reckoned very good.

19: Pafan.-17. Antilope Oiyc. 14.
Has ftraight, fiender, difinctly annulated horns, which taper to a point: The body and fides are of a reddifh afh colour, having a raifed duffy line along the back, the hairs of which, at the poferior end, are reverfed. Pall. fpic. zool. xii. 16. n. I4. and p. Gr, Schreber, v. t. cclvii.
Antilope reClicornis, or Straight-hcened Antelope. Erxleb. mam. 272. n. 3. Pall. in nov. com,. Petrop. xiii. 468. t. Io. f. 5.-Antilope bezoartica, or Bezcar Antelope. Pall. mifc. zool. 8. Spic. zool. i. 14--Gazella indica, or Indian Antelope. Raj. quad. 79-Capra gazella africana, or African Coat-antelope. Hafelqu. It. 283-CCapra gazella, or Goat Antelope. Syft. nat. ed. xii. i. 96. n. 7. Brif. quad. 67 .-Oryx. Agathar. peripl. Plin. hift. nat. ii. c. 40 . viii. c. 53. x. c. 73. Columeil. ruft. ix. c. I. Martial. epigr. i. 13. Macrob. faturn. 3.-Pafan. Sm. Euf. vi. 40 S. Do. Fr. ed. xii. 212. t. 33. f. 3. Journ. hiftor. 56.-Esyptian Antilope., Penn. hifl. of quad. n. 19, Lev. muf.

Inhabits Syria, Arabia, Perfia, India, Egypt, Ethiopia, and at the Cape of Good Fope.-Is about the fize of a Fallow Deer; the flein of the individual examined by Mr Pennant was above fix feet fix
inches long: The horns are near three feet long, ftraight, flender, annulated above häif their length, and the reft fimooth; the points are fharp, and about fourteen inches afunder; the face is white, with a black fpot at the bafe of the horns, another on the middle of the face, and one on each fide reaching from the eye to the throat, joining that on the face by a tranfverfe band of the fame colour; the belly, rump, and legs are white ; the white colour of the belly is divided, on the fides, from the reddifh afh coloured upper parts, by a broad longitudinal dufky band, which reaches to the breaft; each leg. is marked with a dulky foot below the knee; : the tail is near two feet and a half long, and is covered with longifn black hairs. This fpecies is named Gems bock, or Chamois, at the Cape, and is fuppofed by, Dr Gmelin to be the Zebi of. the facred writers.

Has very ftraight, tapering, and fharp pointed horns, which are flightly wrinkled at the bafes. Schreber, v. t. cclix.

Inhabits Africa.-The head is reddifh, the upper parts of the body are greenifh yellow, and the under parts of a whitifh afh colour ; the tail is very fhort.

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2 \text { 1. Algazel.-19. Amtilope Gazella. 150 }
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Was very long, wrinkled, flender, upright, tapering, and fharp pointed horns, which are flightly bent inwards at the ends. Pall. fpic. zool. xii.r7. n. 15 .
Capra bezoardica, or Bezoar Goat. Syft. nat. ed. xii. 96. n. 9.-Hircus bezoardicus. Brif. quad. 69. n. io. Aldrov. bifulc. 756. Major, Eph. nat. cur. dec. i. a. 8. p. i.t. i. Muf. brefl. t. 1 o. f. 3. 4. Valent. muf. mufeor. ed. ger. i. 193. t. 36. f. 2. 4.-Animal bezoarticum. Raj. quad. 80--Animal ignotum. Gefn. quad. 309. f. p. 38.-Gazella. Belon. obf. 120. Profp. alp. hift. aegypt. 232. t. : 4.-Bezoar Antilope. Penn. fyn. n. 15.-Algazel. Penn. hift. of quad. n. 21. Buff. Fr. ed. xii. 211.t. 33. f. 1. 2. Sm. Buff. vi. 4 14. Br. maif. Afhm. muf. Lev. muf.

Inhabits India, Perfia, even its northern parts, Egypt, and Ethiopia.-Runs fwiftly up hill, but rat .ther flowly on plain ground; it is gregarious, and very eafily made tame. The general colour of the fur is red, with a white breaft and belly. The real oriental Bezoar, which is of a greenifh and bluifh colour, and when recent has a very powerful aromatic odour, is frequently found in the fourth fornach of this fpecies, chiefly in thofe of males and full grown animals, and more feldom in the fomach of females or younger individuals.
22. Leucoryx.-20. Antilope Leucoryx. 16.

Has very long, flender, upright, taper, fharp pointed horns, very flightly bent backwards, and annulated at the bafes: The body is of a milk white colour. Pall. fipiczool. xii. 1 \% 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 inland of Gow Bahrein in the bottom of the Perfic Gulph near Baffora.-This fpecics is about the fize of a Welfh Punt. or fmall Cow ; the head is large and broad, with a thick broad nofe,
nofe, like that of a Cow, and fomewhat flouching 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 longifh, and is tufted at the end with a brufh of hairs; the horns are very long, flender, fhrrp-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 Britifh Mufeum. Dr Pallas mentions a horn, apparently belonging to this animal, or fome nearly refembling fecies, being found, in a foffile ftate, in Siberia. The female comes into feafon in autumn, and brings forth in fpring.

## 23. Coudous.-2.r. Antilope Oreas. 17.

Of a grey colour ; having ftraight, tapering, fharp pointed horns, which are furrounded at the bafe with a fpiral ridge. Pall. fpic. zool. xii.- r7. n. 17. Schreber, v. t. cclvi.
Antilope oryx. Pall. mifc. zool. g. Spic. zool. i. 15.-Mazame. Seb. muf. i. 69. t. 42. f. 3.Pacaffe. Church. vey. i. 623 -Coudous, or Coefloes. Sm. Buff. vii. 40. D ${ }^{\circ}$. Fr. ed. xii. 357. -t. 46. 47.-African Elk. Korlben, Cape. i. 145. t. 3. f. r.-Eland. Sparrin. in act. Stock. 1779, ii, n. 5. t. 5. fig. imf. -Elk antelope. Sparrm. voy. ii. pl. I. f. 2.-Indian Antilope. Penn. hift. of quad. n. 22.
Inhabits India, Congo, and near the Cape of.Good Hope.-Dwells moftly in the mountainous parts of the country, living in herds, but the older males are often folitary. They grow very fat, efpecially about the breafe and heart, and are eafily caught, as they cannot run with any fpeed, and eren frequently fall down dead during the chace. This animal is thick in the body, frongly made, and is near five feet high at the fhoulder; the head is reddifh, with a dufky line on each cheek, and a fripe of long loofe hairs on the fore-head ; the body is of a bluifh afl colour, fometimes white, and fpotted with red and grey; it has a fhort black mane along the neck and ridge of the back; the tail is fhortifh, and is tufted with black hairs at the end; the females have horns exactly fimilar to thofe of the males, and both are made into tobacco-pipes by the Hottentots. The flefh is fine grained, very juicy, and is reckoned delicious. 'The lachrymal groove is wanting in this fpecies.

## 24. Guib.-22. Antilope foripta. 18.

The horns are ftraight, tapering, fharp 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. TPall. mifc. zool. 8. n. 14. Spic. zool. i.'r5. xii. x8. n. i8. Schreber, v. t.cclviii.

Guib. Sm. Buff. vii. 12. pl. cxcviii.-Bonte bock, or Spotted Coat. Kolben, Cape. ii. Ir5.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 ftripes along each fide, croffed with two perpendicular ftripes from the back to the belly, and two perpendicular ftripes 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-hend 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.

Has fhort, flender, ftraight, fharp pointed horns, which are furrowed their whole length, and flightly annulated at the bafes; a large lachrymal cavity under each eye, and a tuft of black hairs between the horns.

Antilope Grimmia, having fraight compreffed conical horns, with longitudinal wrinkles, as if much worn, and a black lachrymal cavity below each eye. Syf. nat. ed. Gmel. igi. n. 19. Pail. mif. zool. 8. ro.t. r. 3. 4. fig. 3. a. b. Spic. zool. i. 38.t. 3. xii. 18. n. i9. Schreber, v. t. cclx. Erxleb. mam. ${ }^{276}$. n. 7.-Moflhus Griminia. Syft. nat. ed. xii. i. 92. n. 2.-Capra Grimmia. Syft. nat. ii. 5 1. vi. 14. n. 10. x. 70. n. 10.-Tragulus africanus. Briff. quad. 97. n. 4.-Grimm. Mifc. nat.. curiof. dec. ii. a. 4. p. г3I. f. 13. Raj. quad. 8o. Klein, quad. 19. Smi. Buff. vii. 14. pl. cxcix--Guinea Antilope. Penn. hift. of quad. n. 24. Lev. muf.

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 hornlefs; the colour is variable, fome being of a bright bay colour, while others are browir, mixed with afh colour, and tinged with yellow; the belly is white, and the tail, which is fhort, is white beneath, and black on the upper part: Between the horns is a fmall crect pointed tuft of black hairs; a black ftripe runs down the middle of the face; under the chin is a fmall hairy wart, the ears are large, and have three longitudinal deprefions on the outfide; on each fide, between the eyes and the nofe, is a large depreffion, always moift, and containing a finall quantity of a vifcid gummy humour, which foon hardens and becomes black; the legs are afh coloured, remarkably flender and elegant, the fore legs being, adorned with a black band as far as above the knees, and having only a flight excrefcence inftead of. fpurious hoofs.

## 26. Guevei.—24: Anilope pygmaea. 20.

Has very fhort, conically pointed, twifted horns, which are wrinkled at the bafes. Pall. fpic. zool. xii. 18. n. 20.

Hirfche ihre Koenige, or King of the Harts. Boiman, voy. to Guin. 252.-Cervus perpufllus, f. Cervula africana. Seba, muf. i. 7o. t. 43.f. 3.-Guevei-cajor. Adanfon, voy. 207. Sm. Buff. tii. 27. Do. Fr. ed. xii. 315. t. 43. f. 2.-Royal Antilope. Pemn. hift. of quad. n. 25.-Petite biche. Des Marchais, i. $3^{12}$.

Inhabits Senegal, Guinea, and the hoteft parts of Africa.-This very elegant little animal is only about nine inches high, and yet is fo exceedingly active that it is faid to leap over a twelve feet wall; it is of a reddifh brown colour, with jet black horns about two inches long, the females having no horns; the ears are broad, and the legs are farcely bigger than goofe-quille.. It is eafily made very tame and familiar, but is fo extremely tender as not to bear being tranfported to Europe..
'The horns are fmooth, fomewhat firally twifted, annulated at the bafos, and marked with feveral longitudinal ribs, the ends being taper, and harp pointei. Sparrm. in act. Stock. 1780 , iii. n. 7. t. 7. Schreber, v. t. cclvï. B.
Wood Goat, or Bofch bock. Sparrm. voy. ii. pl. 2. f. 2.

Inhabits near the Cape of Good Hope.-This fpecies dwells chiefly in the woods, and lives together in pairs; it is about three feet light the upper parts of the body are brown, with a whitifl forehead, two white fpots on each cheek, a large white fpot under the throat, and nother at the bottom of the neck; the breaft and hinder part of the belly are white, and there are feveral white fpots on the-thighs and flaniss; the tail is exccedingly fhort, and a fhort mane runs along the neck and ridge of the back; the whole fur is longith and coarfe; the horns are from ten to thirteen inches long, and of a black colour, they have feveral longitudinal ribs which wind once around their whole length, giving them an angular appearance, and they have a gentle fpiral twif, the ends are rery tharp, and recede from each other; the female has no horns.

## 28. Condoma.-26. Antilope Sirefficeros. 2 Io

Has long, compreffed, wrinkled, tapering, fharp pointed fpiral horns, having a ridge on one fide which follows the wreaths; the body has a white line along the back, and feveral white fripes acrofs from that down the fides towards the belly and thighs. Pall. fpic. zool. i. ry. xii. ry. 67. Mifc. zool. 9. Schreber, r. t. celkvii.

Cervus capenfis, or Cape Deer. Collin. act. ac. theod. palat. i. 437 .-Bos Arepficeros. Alur. bit. 368. f. p. 369 -Animal anonymun. Houttuyn, Syft. nat. ed. belg. iii. t. 26. f. r. 2.-Strepficeros. Caii, opufc. 56. Gefn. quad. 295. $3^{2} 3^{\circ}$ ic. 3 r. Jonft. quad. 54.t. 24.-Condoma. Sm. Buff. vii. 8. D ${ }^{\text {. Fr. ed, xii. 301. t. 39. f. I. 2. and xv. 142.-Striped Antilope. Penn. hift. of }}$ quad. n. 3 . Forfter, voy. i. 84.-Africanifcher Kutu. Knor. del. ii. t. K. 5. f. 1. 4. K. II.-Wild goat? Kolben, Cape. ii. 1.5.t. 6.? Journ. hift. 42. and fig. Lev. muf. Brit. mul. Afhm. muf.

Inhabits the country near the Cape of Good Hope.-This fpecies is near nine feet long from the nofe to the rump, and four feet high at the flooulders; the body is long, flender, and of a reddifla grey colour; the face is brown, having a white line from the corner of each eye, running forwards and uniting above the nofe; in general the tranfverfe ftripes, mentioned in the character, are feven in number, four of which point toward the thighs, and three to the belly, but their number varies; there is a fhort mane on the neck, and fome long hairs hang down from the throat to the breaft; the breaft and belly ire 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 dufky colour, and naturaliy wrinkled, though fuch as are brought to Lurope are gencally highly polifhed ; they are near four feet long, are very clofe at the bafes, above two feet and a half diftant at the points, and have two firal fcrew-like turns. The female has no horns. It is faid to leap with furprifing activity to a vaft height.

## 29. Lidmee.-27. Antilope Cervicapra. 22.

Has long, round, prominently annulated, tapering, and fpirally twifted horns, which are finooth and tharp at the points. Pallas, milc. zool. g. Spic. zool. i. i8. Ig. t. i. 2. xii. 19. n. 22. Schreber, v. t. cclxviii.

Antilope, having annulated fipiral horns, the body being of a brown colour abore and white on the under parts. Erxl. mam. 283. 11. 14.-Lidmee, or Indian Antelope. Sin. Buff. vi. 412.413. D. Fr. ed. xii. 2 15. 217 . t. 35. 36. f. 1. 2.-Common Antilope, and Brown Antilope. Penn. hiff. of quad. n. 3 I, and n. 3 I. $x$. pl. viii.-Gazella africana, f. Antilope. Charlet. exerc. $6_{7}$. Raj.
quad. 79. n. 4. Grew, muf. 24.-Capra cervicapra. Syft. 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 frepficeros. Klein, quad. 18.-Hircus gazella. Briff. quad. 68. n. 8.-Gazella. Jonft: quad. t. 29. Act. Parif. i. 84. Valent. amph. zoot. 105. t. Ig. Scheuchz. bibl. facr. iv. t. 576 .-Strepficeros, et Addax. Plin. hift. nat. xi. c. 37-LLidmee arabum. Shaw, trav. 243. Br. muf. Afhm. muf. Lev. muf.
Inhabits Barbary and India.-This fpecies is fomewhat fmaller than a Fallow Deer, and is of a brown colour, clouded with reddifh and dufky; the belly, breaft, and infide 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 almoft entirely covered with prominent rings, the points only being fmooth, 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 diftinction 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 fmaller than a Roe; he likewife mentions horns frequently fent from India, which have been ufed as daggers, which feem to belong to this fpecies, but have all their rings polifhed off.

XXXVIII: GOAT.-37. $C A P R A \cdot 30$.

## Has rough, compreffed; hollow, and perfittent horns; which are erected from the top of the head, and bend backwards. Has no tufks; eight cutting teeth in the lower jaw, and none in the upper. The chin is furnifhed with a beard.

The animals of this genus are fond of dry elevated fituations, on rocky hills, and feed much on a-romatic 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, efpecially 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 ftate they are exceedingly fhy and timid, but are eafily 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 almoft erect on his hind legs, and turns his head on one fide to ftrike his antagonift with his horns. Some naturaliits fuppofe the firft of the following fecies to have been the original ftock of all our Goats ; but that opinion feems chiefly founded on theory. I have not liowever taken any liberties with the arrangement given by Dr Gmelin, as the defcriptions are fo diftinct that no difficulty of difcriminating the feveral kinds, whether they be ultimately confidered as fpecies or variety, can poffibly 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.-r. Capra Aegagrus. 1.

Has large, fmooth, black horns, which are fharply ridged on their upper, and hollowed on their under furfaces, and much arched backwards; the chin is furnifhed with a beard. Pallas, fp. zocl. xi. 45.t. 5. f. 2. 3. S. G. Gmel. it. iii. 493.

Cervicapra, or Paefen. Kaempf. amoen. exot. 398. t. 4. n. r.-Stein bock. Ridinger, jagd. th. t. II.-Chevre fauvage. Tavernier, It. ii. 143. Monad. de lap. bezoar. 8.-Caucafan Goat. Penn. hift. of quad. n. I.4. Zimmerman. 662. Lev. muf.
Inhabits the lower mountains of Caucafus and Taurus, Afia Minor, Laar and Khorazan in Perfa, 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, fometimes weigh ten pounds, and meafure three feet long; they are very clofe at the bafe, bend much backward, and are even hooked at the ends, which approach a little. The general colour of the animal is grey, fometimes mixed with ruft colour having a durky lift 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 dufky colour, mixed with chefnut; the tail is biack. In fize, it is fuperior to the largeft domeftic Goat, and refembles the Stag in agility and elegance of form. The female has no horns, or very fhort ones. Some authors fay that, when hard prefied by the hunters, it will throw itfelf from a precipice, and fave itfelf by falling on the horns.

The horns are ridged, and much arched backwards, with a curvature outwards at theends; and have a beard on the chin. Syft. nat.ed. xii. 94. n. I. Faun. Suec. 44. Forfter, in Phil. Tranf. lvii. 344.
Hircus, having arched horns, which are fharp edged on the infide, rounded outwardly, and ridged below. Brilf. regn. an. 62. n. 1.-Tragus domefticus. Klein, quad. 15.-Capra domeftica. Sloan, jam. ii. 328.-Hircus domefticus. Charlet. exerc. 9.-Caper hifpanicus. Jonft. quad. t. 26.Capra, Hircus, or Hoedus. Plin. hift. nat. viii. c. 50. Gefn. quad. 270. 301. F. p. 302. 314. Aldrov. bif. 6 19. f. p. 635. Jonft. quad. 65. t. 26. 27. Sibb. Scot. an. 8. Raj. quad. 77. Rzacz. Pol. 239•
 c. 4. Oppian. cyneg. ii. 326.-Bouc, et Chevre, or He, and She Goat. Sm. Buff. iii. 486. pl. xvi. xvii.-Geyfs, and Bock. Gefn. thierb. 127. f. p. 128. I35:-Siegen bock, Siege. Klein, quad. 15.-Domeftic Goat. Penn. hift. of quad. 11. 14. a. Brit. zool. i. 29.

Inhabits moft part of the world.-The chief diftinction between this and the Wild Goat is, that, in the former, the horns rather approach at the points, whereas, in the Common or domeftic Goat, the upper half of the horns bend much outwards; the latter is likewife a good deal fmaller. The colour of the Domeftic Goat is fubject to great variety, and the length of the hair varies, being fmooth and fhort in hot countries, while in tive colder regions it is long and fhaggy.

## 3: Angora Goat.-3. Gapra angorenfis. 1, $\gamma$.

The whole body is covered with very long, foft, filky, hair. Brif. reg. an. $6_{4}: \mathrm{n}$. 2:
 f. 2. Forfter, in Phil. Tranf. ivii. 344.-Chevre d'Angora. Tournef. It. ii. x85. Sm. Buff. iii. 498. pl. xviii. xix.-Angora Goat. Penn. hift. of quad. n. 14. ß. Nieuhoff, in Church. voy. ii. 232. Strabo, xui. 823. Zimmerman. I34. Lev. muf.

Inhabits the country about Angora, Beibazar, and Cougna in Afiatic Turkey, and about Gomron in Perfia. - Thofe of Angora are of a filvery whitenefs, while thofe about Ccugna are-brown or black V. OL . I..
coloured. The horns of the He-goat ftand outwards directly from the head, and are twifted into a fcrew-like fpiral, being fometimes above two feet long, and near three feet diftant at the ends; while the horns of the female are fhort, and bend firft back, then down, and then forwards, almoft clofe to the fides of the head. The ears are flat, pointed, and flouching.
4. Syrian Goat. - 4. Capra mambrica. 1. $\delta$.

The horns are fhort and much reclined backwards; the ears are very long and pendu. lous; the throat is bearded. Syit. nat. ed. xii. $95 . \mathrm{n} .3$.

Capra fyriaca. Briff. quad. 7.2. n. 3.-Capra indica, and Capra mambrina, or rather Syriaca. Gefn. quad. 1097. x098.-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.-Geyfen, with hanging ears. Rauwolf. It. iii. 26.—Mambrina, or Syrian Goat. Sm. Buff. vi. 378.-Syrian Goat. Penn. hift. of quad. n. 14. \% pl. v. Ruffel, Alep. 52. Zimmerman. 135. Nieuhoff, in Church. coll. ii. 232. fig. p. 23 r.

Inhabits Syria, India, Perfia, and other parts of the eaft; is likewife brought fometimes to Aftracan by the Kirghifin Tartars. - The horns of this Goat are fhort, black, and tranfverfely wrinkled; thofe of the male bend much backwards, and are divaricated and bent upwards at the ends; thofe of the female take a half turn, pointing forwards, clofe to the head: The ears are of an enormous length, and fometimes need to be cut off, to allow the animal to graze. This animal is fomewhat larger than the Common Goat.

## 5. African Goai.-5. Capra depreffa. I. $\varepsilon_{0}$

The horns are fhort, thick, triangular, and laid clofe to the fhull. Syft. nat. ed. xii. 95. n. 5 .

Hircus, with depreffed horns, or Capra parva, from America. Briff. quad. 65. n. 4.-African Goat, and Dwarf Goat. Sm. Buff. vi. 379. 380. $3^{8 \text { I }}$. pl. clxxxix. cxc.-African Goat. Penn. hift. of quad n. I4. $\delta$. Lev. muf.

Inhabits Africa.-This is a dwarfifh animal, not much larger than a half grown kid of the common kind; the male has two long hairy wattles below the chin; thefe are wanting on the female, which has much fmaller horns: The hair of the male is rough and pendulous, that of the female is fmooth and fhort.

The horns are fhort, erect, fmooth, and turned forwards at the ends. Syft. nat. ed. xii. 95.1. 6.

Ibex parvus, from America. Briff. quad. 65. n. 5-Buck of Juda. Sm. Buff. v. 378. pl. cxcii. cxciii. - Whidaw Goat. Penn. hift. of quad. n. 14. \%.

Inhabits Whidaw, or Jula, in Africa.-This fpecies is dwayfifh, 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.

The horns are very thick, are rounded on the upper furface, and have two fharp edges below; they are bent backwards, with a fight firal twif downwards, outwards, and upwards.

Other Buck of Juda. Sm. Buff. v. 390. pl. cxciii.
Inhabits Juda in Africa.-This kind is likewife of a dwarfilh fize, and, though joined with the preceding by Dr Gmelin, is here feparated 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. Butt. vi. $3^{6} 3$. ${ }^{\circ}$. Fr. ed. xii. 146. t. 15 .

Capricorn Goat. Penn. hift. of quad. n. I4. ${ }^{\text {. }}$
Its place, hiftory, and even figure, are uncertain.-The Count de Bufon only informs us that its fkeleton 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.

## 9. Cabonas Goat.-Capra mutica.

Has no horns. Penn. hift. of quad. p. $57^{\circ}$
Inhabits the country of the Cabonas, to the north of the Cape of Good Hope.-This variety refembles the Common domeftic Goat in every thing but the want of horns.

Goats* are found wild in many places, but principally on the mountains of Caucaffus and Taurus; likewife on the lills of Perfia, India, and Japan, alfo 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 fubject to variety. The horns of the male, which are generally of a dark brown afh colour, are always larger, ftronger, and rougher than thofe of the females, which are either fmail 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 ftate, is ufually of a reddifh grey or afh colour $t$, with a dufky lift along the ridge of the back; the fur is generally harfh and rough ; and the formerly efteemed Bezoar is frequently found. in their ftomachs. The Domeftic fpecies, Sp. 2. is cultivated through all Europe, and in almoft every part of the earth; it.feeds on the twigs, leaves, and bark of various trees and fhrubs; and on various kinds of moffes and lichens, and even eats hemlock, euphorbium, and other poifonous 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 deftitute of horns than the other domeftic quadrupeds. In the ifland of Juan Fernandez there are Goats, now wild, defcended 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, lafcivious, very active, and an ex-

* This paragraph relates to all the fpecies or varities which have gone before,-T.
$\dagger$ This refers to the Wild Goat, No. 706.-T.
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 ftrong 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 uffful; and their milk, and the cheefe made from it, are much efteemed.


## 10. Ibex.-8: Capra Tbex. 2.

Has large horns, knobbed on their upper furfaces, and reclined backwards; the throat is bearded. Briff. reg. an. 64. n. 3. Erxleb. mam. 261. n. 2.

Capra alpina, with very long, almof triangulat, horns, which are knobbed on their upper furfaces, and much bent backwards. Girtanner, in the Lichtenberg magazine, iv. 2. p. 30.-Tbex alpium fibiricarum. Pall. fp. zool. xi.'31. t. 3. and 5. f. 4.-Ibex. Plin. hift. nat. viii. c. 53. Gefn. quad. 331. 1099. Aldrov. bif. 730. f. p. 732. Jonft. quad. 75. t. 25.28. Charlet. exerc. 10. Wagn. helvet. $\mathbf{7}$ 76. Raj. quad. 77. Klein, quad. 16.-Hircus ferus. Belon, obf. 20.-Bouc fauvage. Gafton de foix. 99.-Capricorne. Munfter, cofinogr. 381.-Bouquetin, Bouc eftain, Boucftein, Rock goat, or Wild goat. Sm. Buff. vi. 363. pl. clxxxvii. Zimmerman. i14.-Stein bock. Gefn. thierb. 148. Knorr, delic. ii. t. K. 5. f. 2. Kram. auftr. 32 I. Ridinger, klein. thier. n. 7 I.Ibex. Penn. hift. of quad. ñ. I3. Br. muf. Aflmm. muf. Lev, muf.
Inhabits the Kamtfchatkan, Siberian, Arabian, Cretan, Italian, Apennine, German, Swifs, and Tirol Alps, chiefly in the moft precipitous and inaccefible places.-This animal is exceedingly active, rery fwift, and leaps with aftonifhing agility and dexterity in the moft dangerous rocky places of the mountains; it is larger than the Wild Goat, having a fhort, thick, and ftrong body, with ftrong yet handfome legs, and very fhort hoofs : the head is fhort, with a thick compreffed muzzle; the horns of the male are very large, of a blackifh grey or afh colour, 'fometimes three feet'long, and weighing from eight to ten pounds; they are rounded on the under furface, much knobbed on the upper furface, furnifhed with projecting longitudinal ridges, and confiderably more arched than thofe of the Wild Goat ; the horns of the female have fewer knobs, are fmaller than thofe of the male; and refemble the horns of the Common She-goat ; the mate is furnifhed with a dufky 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 fot above, and another below each; the tail is flort, black on its upper furface and at the point, and naked underneath : In young anmals the fur is of a dirty grey colour; and the females are a good deal finallcr than the males. The Ibex lives much among the fnows and glaciers of the higheft mountains, is exceedingly wild and difficultly fhot, the chace being very hazardous on account-of the nature of their retreats, and being very ftrong, they frequently tumble the huntfman over the precipices. In the fevereft weather of winter they fometimes defcend a little way in queft of food. During the rutting feafon the males bray very loudt the females retire to the fide of fome fimall ftream to bring forth, and have one, or at moft two, at a birth. The Ibex is named Tau-tokke, or Mountain Goat, by the 'lartars; the flefh is much efteemed, and the fkin is very thin. Dr Gmelin is uncertain whethar the Ibcx found in Siberia be the fame, or a diftinet fpecies.
ed backwards, confiderably divaricating, with their extremities turned inwards. Guldenftedt, act. Petrop. 1779, ii. 273. t. xvi. xvii.
Inhabits the bare, fchiftic, rocky, fummits of mount Caucafus, near the origin of the Terek and Cuban rivers, and in the diftricts named Cacketia and Offetino. - The horns of the male are of a dirty blackifh colour, and much longer than thofe of the Common Goat ; thofe of the females are of a brownifh afh colour, and much fmaller: The upper parts of the body are of a bright brownifh grey colour, with a narrow dark brown lift along the back, the under parts are whitifh, and the limbs are black; the hair is harfh, fomewhat ftiff, afh coloured at the roots, and is intermixed with an afh coloured wool. This animal is about the fize of the Common Goat, with which, however, it will not breed, and is rather fhorter and broader in its general form.

## XXXIX. SHEEP.-38. OVIS. 3 I.

Has hollow, wrinkled, perfiftent horns, which are turned backwards and outwards into a circular or fpiral form generally , at the fides of the head. The lower jaw has eight cutting teeth; the upper jaw none; and no tufks in either.
-This is perhaps the moft ufeful of all quadrupeds to mankind, in a civilized ftate, as it fupplies excellent food and warm clothing, and its wool, in fome countries, is an aftonifhing fource of induftry end wealth. Sheep are naturally harmlefs and timid, and are greatly lefs active, either in running or leaping, than Goats; they prefer dry open plains, and graffy or heathy hills, but avoid rocky places, and do not agree with forefts or wet foils; they fight by butting againft each other with their horns, and threaten by ftamping on the ground with their feet; they drink little, are fubject to a difeafe named the rot, to worms in the liver, and to vertigo: The female goes about five months with young, and brings commenly one, often two when in good pafture, and fometimes, though rarely, three young ones at a birth. The male is named Ram or Tup, when caftrated Wedder, the fe--male Ewe, the young ones Lamb; and many other names are employed by the fhepherds for diftinguifhing particular ages, as Hogs, Dinmonds, Gimmers, \&xc. which vary in different diftricts.

## 1. Common Sheép.-1. Ovis Aries. I.

Has the horns twifed outwards into a comprefied fpiral or fcrew. Faun. Suec. 45. Amoen. ac. iv. 169 .

Aries laniger. Briff. regn. an. 74. n. 1.-Ovis domeftica. Sloan, jam. ii. 328. Raj. quad. 73-Common Sheep. Penn. hift. of quad. n. if. A. ח $_{\rho} \beta$ ßarov. Arift. hift. an. v. c. I1. vi. c. 19. viii. c. 13 . ix. c. 4. Aelian. an. vii. c. 27.-Pecus, Aries, Ovis, Vervex, Agnus. Plin. hift. nat. viii. c. 47.48 . Gefn. quad. 872 . 912 . 925.927 . Aldrov. bifulc. 370 . Jonft. quad. 54. t. 22. Charlet. exerc. 8. Sibbald, Scot. an. 8. Rzaczink. polon. 242. Swenkf. ther. 56. 60.-Schaaf, Wedder, Hammel, Lamb. Gefn. thierb. 320. $3^{21}$. 327 . 329. Rimmerman. 112.
Sheep are cultivated all over the world, for the fake of their flefh, milk, and cheefe, as food, and for their wool, of which a warm clothing is manufactured ; it is perhaps the moft fupid, weakeft,
and moft helplefs of all quadrupeds; it delights moft in dry places which are expofed to the fun, and is fond of falt, or of plants which grow in falt marfhes; its voice is named bleating: It chiefly feeds on the grafs named Feftuca ovina, and the Burfa paftoris, or Shepherd's purfe, and drinks little; it is injured by eating the Pruna fpinofa, Equifetum, Ranunculus, Flammula, Anthericum offifragum, Kalmia, Myofotis paluftris, and Anemone nemorofa; it is infefted by the Hippobofca ovina, Pediculas ovis, Oeftrum ovis, Acarus ricinus, and Fafciola hepatica; it is likewife fubject to a vertigo, occafioned by hydatids in the brain, to diforders of the liver, confumption, jaundice, dropfy, fcab, and a kind of fmall-pox. Sheep attain their full fize in two years, and feldom reach fourteen years of age; they change their teeth with age ; are very fearful, and, when threatened, ftamp on the ground with their hoofs, voiding their urine at the fame time, and defend themfelves by butting with their horns: One Ram is fufficient for forty or fifty Ewes; the females go twenty three weeks with young, and bring one or two Lambs, feldom three, at a birth.

Of this fpecies, the following varieties are diftinctly marked in authors, befides many, almoft endlefs, cultivated varicties, which differ from each other by fuch infenfible gradations as to baffle all ato. tempts at fcientific defcription.

Has no horns; the tail and fcrotum hang down as low as the fecond joint of the hind: legs, and the wool is fine.
Ovis Anglicana. Amoen. ac. iv. 174.-Hornlefs Sheep. Penn. hift. of quad. n. ir. C. Sm, Buff. iii. $47^{2}$. note.

This kind is common in moft parts of Britain ; thofe of Lincolnfhire are the largeft, and very fmall breeds are found in Wales and in Shetland; the White-faced and Fine-wrooled Sheep of this ifland have generally either no horns or very fimall ones. The length of tail mentioned in the character is by no means univerfal, as a great many of our hornlefs breeds have very fhort tails.

## ß. Dwarf Sheep.-O. Aries nana.

Has no horns, is of a very fmall fize, and has a turned up nofe.
Dunky, or Dwarf Sheep. Bewick, hif. of quad. 6o. and fig.
This variety is found in Lincolnfhire; but the individual engraven by Mir Bewick came from fome 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 expofed, the nofe is much crooked upwards, the fore-head is very high and projecting, and the cars are fimall and crect ; perhaps it may only be an accidental variety.

## \%. Runtic Sheep.-1. $\beta$. O. Aries rufica.

Is horned ; the tail is fhort, and the wool is fhort and rather coarfe.
Ovis ruftica. Amoen. ac. iv, 174. Pall. fp. zool. xi. 61.-Ovis brachyura. Pall. fp. zool. xi. 59. - Black-faced Sheep. Bewick, quad. 52. and fig.

This is the moft common breed of Sheep all over Europe, efpecially in the northern parts; the wool is fhorter, coarfer, and lefs curled than on the Hornlefs breed; the horns are generally large, wrinkled,
wrinkled, turned backwards into a compreffed, fpiral, fcrew-like twift, which comes clown to the fides of the head, taking feveral turns, and becoming large on old Rams; they are angular, having longitudinal ridges, and the ends are fmoothed, 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 bluifh, and have a confiderable wildnefs, 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 mofly round, and fhorter than in the former variety; the colour of the fleece is moftly white, fometimes black, dark brown, or fpotted, and the face is almoft always covered with fhort 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 coarfe manufactures; they are very agile, and exceedingly fly. 'This brecd is found in greateft perfection on the hills of Tweeddale in Scotland.

## d. Spanifh Sheep.-1. 子. O. Aries bipanica.

The horns are twifted into a fpiral which is lengthened outwards; the wool is very fine and plentiful.
Ovis hifpanica. Amoen. ac. iv. 174.
This is the common fheep of Spain, fo famous for the finenefs of the wool, that even the Britifh woollen manufactures require a very confiderable annual fupply, to mix with home wool, for the fineft broad cloths, and other fine fabrics.

Has more than two horns. Amoen. ac. iv. 174.
Ovis gotlandica. Pall. fp. zool. xi. t. 4. f. I. c. f. 2. b. t. 3. f. 5.-Ovis fexcornis, et Ovis tricornis. Aldrov. bifulc. 397 . -Iceland Sheep. Sm. Buff. iii. $4^{84}$. vi. t. clxx. clxxi. Penn. hift. of quad. n. if. D. pl. 3. f. 3.-Many horned Sheep. D ${ }^{\circ}$. n. If. E. t. 3. f. 2. Zimmerman. 127. 128. Grew, rar.t. 2. Lev. muf. Weir's muf.

The many-horned fheep are common in Iceland, and other parts of the north, in Siberia, and among the Tartars near the riter Jenifei, and other parts of Tartary. - Thefe can hardly be faid to form a diftinct 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, ftand 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 ftraight yellowifh hairs, fourteen inches in length: This animal was brought from Spain, was very mifchievous, and fond of buttirg; but its country is uncertain.

Is clothed with fhort hair inflead 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.

Has hairy wattles on the throat, pendant ears, and a prominence on the back part of the head. Syf. nat. ed. xii. 98. n. 2.
Ovis gaineenfis. Briff. regn. an. 77. n. 5.-Aries guineenfis, f. angolenfis. Marcgr. Braf. 234. Jonft. quad. t. 46. Klein, quad. 14. Raj. quad. 75. Sloan. jam. 328.-Adim-mayan. Marmol, afr. i. 59. Leo Afr. 341.-Moutons de guinee. Adanf. Seneg. 37. Des March. It. i. 129.-African, Indian, Senegal, Guinea, or Angola Sheep. Sm. Buff. vi. 212. pl. clxxiii. clxxiv. clxxv.Salara Sheep. Shaw, It. 241.-Carnero, or Bell-wedder. Della Valle, trav. 91.-African Sheep. Penn. hift. of quad. n. if. F. Zimmerman. 13 ${ }^{\text {b }}$.
'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 tranfported into South Anerica.-It is very tall, long legged, and meagre, with fhort horns turned backwards and downwards clofe to the fide of the head, pendant ears, long fmall tails, wattles on the neck, long arched muzzles, and is covered with hair inftead of wool ; is fometimes found as tall as a middle fized Afs. The flefh is reckoned very bad.

日. Broad-tailed Sheep.-1. ท. O. Aries laticaudaia..
Has long, and very broad tails. Penn. hift. of quad. n. ri. G. Arift. hift. an. viii. c. 28. .
Tunis Sheep. Sm. Buff. vi. pl. clxxvi.-Barbary Wedder. D ${ }^{\circ}$. 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 mofty fquare or rounded, and are reckoned a great delicacy, being compofed of a fubftance between fat and marrow, and fometimes weigh fifty pounds. Thofe of Thibet produce the very, fine wool of which fhawls are manufactured; but their tails, though broad, are not nearly fo long as the others. .

## 1. Fatarumped Sheep. - O. Aries featopyra.

Has two large, naked, hemilpherical prominences on the buttocks, and no tail; withe pendant ears. Penn. hift. of quad. n. ir. H. pl. iv. f. i.

Ovis fteatopyga, Aries kirgificus. Pall. fp. zool. 63. t. 4. f. 1. 2. a. b.
This fingular breed is common among the Tartars from the Volga to the Irtifh, and to the Altaic rnountains.- They have curled horns like the Common Sheep, pendulous ears, arched nofes, and wattles on the neck; the wool is long and coarfe; the head black, and the ears white and edged with black; they grow to a large fize, fometimes weighing two hundred pounds; are ufually white, but fometimes black, reddifi, or fpoated; the great prominences on the buttocks are entirely compofed of fat.

Thefe two kinds of fheep, the Broad-tailed, and Flat-rumped varieties, are not diftinguifhed by Dr Gmelin, in his edition of the Syftema Naturae, though they are evidently as widely different at leaft as fome of the other varieties. He fays, that, in general, they are white, fometimes black, brown, or ipotted, and very feldom grey, or hoary; and that they are cultivated among the various wandering
wandering hordes of Tartars, particularly among the Kirgifians, and are likewife found over the whole Eaft, in Perfia, China, Syria, Arabia, and Egypt; he adds, that inftead of a tail, of which only the coccyx is to be found, they are furnifhed with a large and thick bundle of fat, which fometimes exceeds thirty pounds in weight. He quotes the following authors and fynonimes, without any diftinction, of which all feem to refer to the broad-tailed variety except Pallas, who eridently means by Ovis ${ }^{-}$featopyga, 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 vaft mafs of fat is confined to the tail itfelf.-T.

Ovis platyura arabica. Ruffel, Alep. 51. t. 52.-Ots $\alpha \xi^{2} \alpha, 305$. 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. 3+3. t. 8. Brifi. regn. an. 75.n.2.-Aries, f. Ovis $\pi \lambda \varepsilon \tau u v$ eges orientalis. Klcin, quad. 74.-Ovis laticauda, platyceros, f. arabica. Amoen. ac. iv. 173.-Broad-tailed Sheep. Shaw, It. 24I.-Arabifchcs fchaaf. Gefn. thierb. 326.-Hiefege fchaafe. Ofb. oftind. 188.-Schaaf deren Schwaentz gar feiff. Rawolf. It. iii. 26.-Broad-tailed Sheep. Penn. hift. of quad. n. II. G.-Fat-rumped Sheep. D?. n. rı. H.-Ovis fteatopyga, Aries kirgificus. Pall. 「pic. zool. xi. 63. t. 4. f. i. 2. a. b.
x. Bucharian Sheep.-1.0. O. Aries bucharica.

Has large pendulous ears, and a long, flat, broad tail, with fmall fatty bunches on the hips. Pall. fp. zool. xi. s. $^{8}$.

This kind is common among the flocks of the Bucharian Tartars, and is found in Perfia, Syria, Paleftine, and feveral parts of Africa.-In Dr Gmelin's opinion, it is produced from an intermixture of the Broad-tailed vith 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 whitenefs. Mr Pennant probably means this kind, when, fpeaking of the Broad-tailed Sheep, he fays, that fome have pointed tails.

## 入. Long-tailed Sheep-1. 1. O. Aries lonyicauda.

Has a very long tail, and is clothed with wool. Briff. regn. an. 76. n. $3^{.}$
Ovis dolichura, f. ovis tfcherkeffica. Pall. fp. zool. xi. 60.-Ovis alterum genus. Raj. quad. 74.-Ovis arabica. Jonft. quad. t. 23.-Schaaffe. Olear. It. 567 .-Ein ander arabifche fchaaffo Gefn. thierb. 326.

Of this kind Dr Gmelin gives no account, farther than what is contained in the character

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 clofe behind the ears, which are long, broad, and naleed; the body and neck Vol. I.
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.

## 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. ir.-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 purchafed in Holland, and was faid to have come from the Eaft Indies. The horns were very thick and clofe at the bafes, bending backwards, diverging and turned outwards, about two feet long, eleven inches circumference at the bafe, and nineteen inches diftant at the tips: The general colour was a pale rufty brown; the upper part of the neck had a kind of erected mane; the under part of the neck and fhoulders were covered with long coarfe flowing hairs, about fourteen inches long; the hair on the reff of the body was fhort, and intermixed at their roots with a fhort fleece of wool. Dr Gmelin quotes this as a fynonime of the Capra Ammon, which has no beard on the cheeks.

## छ. Morvant.-O. Aries jubata.

Has a fhort mane on the neck, and a long beard on the fore part of the breaft. Sm. Bafi. vi. 227. pl. clxxvii.

This animal was exhibited at Paris under the name of Chinefe Morvant. The horns have only a half turn in the fame direction with thofe of the Common Sheep; the beard on the lower part of the neck is coarie, about ten inches long, and of a mixed red and grey colour; the mane extends to the iniddle of the back, and is of the fame colour with the beard, but mixed with red and black hairs; and the two are joined all round the neck and fhoulders with longifh red grey hairs; the reft of the body is covered with wool, of a bright yellow colour, a little curled and foft at the ends, but ttraight and coarfe at the roots; the legs are deep red; the tail is yellow and white, and is furnifhed with long coare hairs like that of a cow.

## 2. Cretan Sheep.-3. Ovis Sirepficeros. 3.

Has long, erect, firally frewed horns, furnifhed with longitudinal ridges.
Hircus laniger, or Capra cretenfis. Brif. regn. an. 73. 12. 15--Ors gav9or. Oppian, cyneg. ii. 3-6.-Sitrepicewos. Plin. hift. nat. xi. c. 37. Sm. Buff. vi. 21 I.-Aries cretenfis, f. Strepficeros. Belon. obf. 20.f. p. 2 I. Aidrov. bifulc. 406. f. p. 40\%. Raj. quad. 75. Jonft. quad. t. 45. Befch. der berl. naturf. iv. 624: t. 20. Klein, quad. 14.-Wilde Straubengeyfs. Gefn. thierb. is i.f. p. 152.-Wallachian Sheep. Sm. Buff. iii. 284. pl. xv. 2d. xv. 3d.-Cretan Sheep. Penn. hift. of quad. n. II. E. pl. iii. f. i. Zimmerman. I 3 I.

Inhabits Candia, and the other Grecian iflands, and is common in Hungary and Auftria.-The horrs of the nale are twifted quite ercét into a fpiral like the worm of a ferew; thofe of the female have the ferew dravin ont so as to refemble rather a loofely twifted rope, and the ends diverge confiderably;
fiderably; in both the wool is long, pendant, and hairy. Dr Gmelin expreffes a doubt whether this may not be the common frock of all the varieties of Sheep. This is alnoft the only kind of Sheep brought to market in Auftria, where it is named Zackl.

The horns are large, femicircularly arched backwards and divergent, wrinkled on their upper furface, and fattifh on the under fide; and the neck has two pendant hairy wattles. Erxleb. mann. 250. n. 2 .
Capra Ammon. Syft. nat. ed, xii. 97. n. 12.-IIircus, f. Capra orientalis. Briff. regn. an. 71. n. 12. - Mufmon, et Ophion. Plin. hift. nat. viii. c. 49. xxviii. c. 9. mx. c. 15.-Mufmon, f. Mufimon. Gefn. quad. 934. Zimmerman. 114. 546.-Mufimon, et Tragelaplus Belonii. Raj. quad. 75. 82.-Tragelaphus, f. Muflon. Klein, quad. 20.-Rupicapra cornibus arietinis. J. G. Gmelin, nov. com. Petrop. iv. 383. et fumm. 53. t. 8. b. f. 2. 3.-Cvis fera fibirica, f. Argali vulgo dicta. Pall. fp. zool. xi. 3.t. i. 2.-Mouflon. Sm. Buff. vi. 205. pl. clix.-Stepıic Barani. J. G. Gmelin, It. fib. i. 3 68.-Kameuni Baranni, oder Mufimons. Steller, Camtfchatc. 127.-Das wilde Schanf, et der Weiffars der Alten. Gefn. thierb. 154. 155.-Orientalifches Schaaf. S. G. Gmelin, It. iii. 486. t. 55.-Wild Sheep. Penn. liift. of quad. n. II H*.-Siberian Chamois. Briff. quad. 42.

Inhabits, in fmall flocks, the rocky and defert places, expofed to the heat of the fun, on the Alpine region in the center of Afia, in Kamtfchatka, the Kurili iflands, probably on the weft fide of North America, and in California; and on the higheft mountains of Barbary, Sardinia, Consica, 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 violene'y 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 brownifh afla, mixed with grey on the upper parts of the body, and a whitifh afh on the lower parts; in wiuter the formorchanges to a rufty grey, and the latter to a whitifh grey; in winter the hair is about an inch and a half long, which falls off in fpring, and the fummer cont is very fhort; the tail is very fhort, of a white colour, and browninh at the end; the ears are crect and fharp 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 whitifh, angular, wrinkled tranfverfely, large, clofe at their bafes, and placed on the top of the head, then rife at firf nearly upright, are reflected backwards, divergent, and turned downwards and outwards at the ends; thofe of the female are fmaller, and more hooked, but are fometimes 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 fizeas to weigh fifteen pounds each, and to menfure two Rufiian jards in length. The fefh and fat are: efteemed great delicacies in Siberia.

## B. Corfican Argali. - Ovis Ammon europaea.

Refembles the former, but is of a brown colour tinged with tawny on the upper parts, with a white mark on each fide pointing to the belly. Penn. lifitt. of quad. ne . 11. H *. . 2 .
I have introduced this variety on the authority of Mr Pennant, who difinguifhes between the Argali of Corfica and the Siberian, though the difference feens chiefly in colour; one fpecimen,
brought from that inand 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 fhoulders. In Corfica this animal is named Mufro. 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 thofe of an Ox.

$$
\text { 4. Pudu.-4. Ovis Pudu. } 4 .
$$

Fas round, fmooth, divergent hornso
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 defcends into the fouthern plains of Chili when the hills are covered with fnow; at that feafon it is eafily caught, and very readily becomes tame; it 'refembles a Goat in appearance, but the horns are fmall, and are turned round outwards like thofe of Sheep, and it has no beard; the female has no horns; the general colour is dufky. This is the only animal of the genus which feems indigenous to America, though even this inftance is uncertain; for neither is the animal fully known to naturalifts, nor are we completely affured that it may not "be the progeny of Sheep originally tranfported thither from the Old World.

$$
X L . O X .-39 . B O S .32
$$

## Has hollow perfifent horns, which are fmooth, and bent outwards and forwards in a femilunar form. There are eight cutting teeth in the lower jaw, none in the upper, and no tulks.

The animals of this genus are extremely uffful to mankind, ferving as beafts of draught and burthen, and furnifhing excellent beef, milk, cheefe, butter, curds, and whey, as food; their flkins make excellent leather for many purpofes; the fat is ufed for making foap and candles; the horns are made into a variety of ufeful utenfils; even the hoofs, bones, and hair, are converted to ufe. They principally dclight in flat paftures, avoiding woods and freep hills; they fight by pufhing with their horns; the soice is named lowing, and bellowing: The male is called Bull, when enafculated Ox; the female Cow, when fpayed Heifer; the young Calf; and, like the Sheep, it has various appellations for different ages and circumftances, as Steir, Stot, Runt, Keillie, Stirk, Seg, and many others, which vary in different diftrifts. In the fame manner as with the two former genera, it is dificult to arrange this genus with propriety, the proper limits between fpecies and variety admitting of confiuerable doubt.

## 1. Common Ox.-i. Bos Taurus. I.

Has round horns, which are curved outwards; and a pendent dewlap. Fauri. Suec. 46.
Inhabits almoft every part of the world, either in a wild or domefticated fate.-This fpecics is fubject to grcat variety in form, colour, and figure of the horns; the following fubdivifion and enumeration of the rarieties, is.regulated by that of Dr Gmelin, with fone flight alterations on the aum thority
thority of Mr Pennant ; though fome of the kinds confidered only as varieties feem fully as fuecifically different from the reft as others which are here placed as diftinct fpecies, and even fome of thefe laft have very near.refemblances either to each other, or to one or other of the varieties of this fift fpecies.

$$
\text { A. Wild Ox. }-\mathrm{I}, \alpha \cdot \text { B. Talirus ferus. } \alpha \text {. }
$$

Has thick fhort horns which are reflected forwards, and a curly fore-head. Brif. rega. an. 80 . 1. 3 .

Bos ferus. Plin. hift. nat. viii. c. 1 --Urus. Caef. bell. gal. vi. c. 28. Gefn. quad. 157. Aldrov. bif. 347 . f. p. $34^{\text {S. Jont. quad. } 50 \text { t. 20. Raj. quad. } 70 \text {. Klein, quad. ir. Bell, trav. i. } 22 \text { I } . ~}$ Rzacz. pol. 228. Beivick, hift. of quad. 38. and fig.-Bos filveftris. Charlet. exerc. 8.-Auerochs. Gefn. thierb. 299. Sm. Buff. vi. 150 . Ridinger, wilde th. t. 37. Brit. zool. i. i 5 . Penn. hift. of quad. n. 6.

Inhabits the marfhy woods of Poland, Pruffia, and Lithuania.-This is probably the fock of all the European clomeftic breeds; and though Dr Gmelin quotes Sibbald under the third variety, Bifon, as deferibing the wild cattle of Scotland with a long mane, there is reafon to fuppofe that circumftance a miftake, as the remains of that breed, ftill preferved in feveral parks in England, have no mane, and refemble the common breed very much. Thefe are invariably white, with white horns, black nofes, and red, black, or brown ears; they are exceedingly wild, and rather dangerous, efpecially the Bulls in rutting time, and the females when fuckling their calves. Bewick, hift. of quad. 34 . and fig.

## ß. Bonafus.-I. a. b. B. Taurus Bonafus.

The horns are reflected backwards, and the neck is furnifhed with a long mane. Brif. regn, an. 84. Syft. nat. ed. xii. 99.

Boyargos. Arift. hift. an ii. c. 5. 7. xi. c. 7r.-Mova申. Aelian. an. vii. c. 3.-Bonafus. Plin. hift. nat. viii. c. 15. Gefn. quad. 145. Aldrov. bif. 358. f. p. $3^{\text {6́ri. Jonft. quad. } 5 \text { 1. t. 18. 19. }}$ Charlet. exerc. 8. Raj. quad. 7 r. Sm. Buff. vi. 150.

## 2. Bifon.-r. a. c. B. Taurus Bifon.

The horns are refiected forwards, the back is hunched, and the neck has a long mane. Syft. nat. ed. xii. 99. n. 3 .

Bos Bifon albus, having the horns reflected forwards, and the neck clothed with a very lons mane. Brif. rega. an. 82. 11. 5.-Bos Bifon, having the horns reflected forwards, the back hunched, the neck furnifhed with a long mane, and the throat with a long beard. Briff. regn. an. 82. n. 6.Bisavs. Oppian. cyneg. ii. 159.-Bifon. Plin. hift. nat. viii. c. 15. Gefn. quad. i43. Aldrov. bif. 353. 357. f. p. 355 . 356. Jonft. quad. 5r. t. 16. 17. Charlet. exerc. 8. Sibbald. Sčot. 7. Raj. quad. 7r. Rzacz. polon. 214. Sm. Buff. vi. 150. -Wyfent. Gefn. thierb. 296.

The Bonafus and Bifon, though confidered as diftinct by Dr Gmelin, are fuppofed by the Count de Buffon to be the fame animal, and to be the original ftock of all the European Oxen; confe-
quently it muft be the fame with the Urus, and the various defcriptions of authors muft be owing to accidental variations from age, cliniate, and food. They muft however be carefully diftinguifhect from the American Buffalo, afterwards defcribed, which is called Bifon by Buffon.

## B. Domefic Ox.-1. B. B. Taurus domeficus.

Has, in general, round, fmooth horns, which are diftant at their bafes and are reflected forwards; and neither hump nor mane.

Bos, Taurus, Vacca, Vitulus. Plin. hift. nat. viii. c. 45. 45. Gefn. quad. 24. 25.103. 124. Schwenkf. ther. $63.65 \cdot 70$. Aldrov. bifulc. 13. f. p. 36. Jonft. quad. 13. t. 15. Wagn. helv. 167 . Sibbald. Scot. 7. Rzacz. polon. 37. Sloan, jan. ii. $3_{27}$.-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 tranf. of phil. and lit, foc. Mancheft. i. c. 27. Penn. hift. of quad. n. 6. G. Sm. Buff. iii. 423 . pl. xiii. Brit. zool. i. i5.

The largeft cattle of this kind are found in Poland, Holttein, Jutland, Podolia, and Ukrain. A mach finaller breed is produced, often without horns, in the Highlands of Scotland, Wales, Iceland, and other northern and mountainous countries.-This domeftic breed is fo variable in appearance, and in the form of the horns, as to preclude the poffibility of enumeration in a fyftematic work; in fome the horns are wanting, in fome large, in others fmall, fometimes extended directly outwards, or refiected backwards, upwards, forwards or downwards: In general the Bulls are very ftupid, 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, firft fhowing their rage by horrible bellowings, and by tearing up the ground with their feet and horns. The Bulls have a furly afpect, a ftrong and curly fore-head, and a very ftern menacing appearance; the Cows and Oxen liave a more mild and ftupid look, and are lefs dangerous, though the Cow is apt to but when fhe has young: They are exceedingly ufeful as beafts of burthen, and for ploughing the ground; their fleih, milk, cheefe, butter, and fat, are of almoft indifpenfible ufe to mankind; even their dung is a mof excellent manure, and their horns are convcrted into valuable articles of manufacture. They are more fubject to murrain than the other domeftic cattle, and are much infefted by the Gad-ly, Tabanus, Canopis calcitrans, and by Lice; they are fond of warm, open, flat, and rich paftures, and are apt to be poifoned by Hemlock, Aconite, and Anemone. 'They fetdom exceed fourteen 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 fuch remarkable differences as would conftitute, in other genera, fufficient marks for fpecific diftinction.

Has flort horns, bending back clofe to the neck, with a large fatty lump on the fhoulders: Of a large fize and reddifh colour. Pemn. hiff. of quad. n. $6 . \Lambda$. pl. i. fig. inf.

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\text { Indian Oz. Sm. Buff. vi. if }{ }^{8 .}
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Inlabits India, Africa, and Madagafcar. - The lump is compofed entirely of fat, and is efteemed a great delicacy; this breed will intermis with the common kind, but in a few generations the lump difappears; it grows to a vaft fize, the neck is prodigioully thick, and the legs rather flucrt in proportion to the fize and length of the body.

Has fhort, erect horns, which are turned a little forwards: Of a very fmall fize, with a lump on the fhoulders. Penn. hiff. of quad. n. 6. B. pl. i. fig. fup. Syft. nat. ed. xii. 99. n. 6.
Zebu. Sin. Buff. vi. 164. 240. pl. clxxx.-Bos feythicus, with a huach on the back. Charlet. exerc. 8.-Little Indian Buffalo. Edw. av. 200. t. 200.

Inkabits India, Perfia, and China.-This animal is the common beaft of burthen in India, where it is likewife ufed to draw carriages, and is even ufed for riding.
n. Surat Ox - - . Taurus indicus minimas.

Of a very diminutive fize. Penn. hift. of quad. p. i 7 .
Inhabits the country near Surat in India. -This breed is not larger than a great Dog, has a fierce look, and is ufed about Surat to draw children in fmall carts.

## O. Abyffinian Ox.-1. a. c. B. Taurus abefinicus.

Has the horns only adhering to the fkin and hanging pendulous; the back is furnifled with a hunch. Penn. hift. of quad, n. 6. C.

Abyffinian Ox. Lobbo, voy. 70. Flacourt, voy. 15 I. Sm. Buff. vi. 178.
Inhabits Abyffinia, Madagafcar, and probably in other parts of Africa.

1. Boury.-I. a. d. B. Taurus madagafoarienfis.

Of a large fize and white colour, with pendulous ears, and a hunched back. Penn. hiff. of quad. n. 6. D.
Madagafcar Ox. Flacourt, voy. 15 I.-Adel Ox. Purchas, pilgr. ii. 1106.
Inhabits Adel and Madagafcar.
x. Tinian Ox.-r. a. e. B. Taurus tinianenfis.

Of a white colour with black ears. Penn. hif. of quad. n. G. E.
Inhabits the illand of Tinian.
ג. Lant.-I. a. f. B. Taurus africanus.

Of a white colour, with elegant horns, flender legs, black hoofs, and of vaft fwifnefs. Penn. hift: of quad. n. 6. F.
Inhabits Africa.-Is fwifter than moft horfes, and the hide is faid to be impenetrable to a builet. This is probably a fyecies of Antelope.

## 2. Arnee.-Bos Arnee.

Has long erected femilunar horns, which are flattened and annularly wsinkled, 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 fleleton of the head with the horns is in the Edinburgh College Mufeum; the defcription given of the living animal; by a Britifh officer, who met with one in the woods in the country above Bengal, is, that it is about fourteen feet high, moft probably eftimating the diftance from the ground to the tip of the horns, that it partakes of the form of the Horfe, Bull, and Deer, and was very bold and daring; this laft circumftance eftablifhes its genus, as all the other horned animals of the ruminant or cloven footed tribe are fhy and timid; and is confirmed by a Mogul painting in the poffeffion of the late MIr Rofs of Edinburgh, in which, among a vaft variety of figures are two enormous Buils, with horns exactly like thofe in the mufeum, and which feem at leaft eight feet high at the fhoulder, if a man walking clofe by the fide of one be taken as a fcale. The engraving, which is an exact copy from the above mentioned painting, even without attempting to correct its erroncous drawing, will give a more accurate idea of the Arnee, by which name the animal is. Fnown to the natives of India, than can be conveyed in words. Except in the form of the horns, it refembles our common breed, and, by the painting, is of a black colour, quite fmooth, and without hunch or mane.

Hà fhort, rounded, diftant horns, pointing outwards; the neck, fore-head, breaft; and chin, are clothed with long woolly hair, and the fhoulders are highly hunched. Syft. nat. ed. xii. 99. n. 3. $\beta$.
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. ı82.-Florida Bifon. Raj. quad. 7 1. Klein, quad. I3.-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:' ro7. Catefby; carol. app. 27. t. 20.-American Beeves. Dobbs, Hudfon's Bay. 41.-Wilde Ochfen. Kalm, It. ii. 350. 425 .iii. 35 1.-American Ox. Penn. hift. of quad. n. 6. H.-Bifon. Penn. Arct. zool. n. r.

Inhabits Mexico and the interior parts of North America, as high as near Hudfon's Bay.-Is found in great herds in the Savannas, is fond of marfliy places, and lodges among reeds; is very fierce and dangerous, yet may be tamed when taken young. It is of valf.fize, weighing from fixteen hundred to near three thoufand pounds; the fore parts of the body are exceffively thick and.ftrong, and are covered at all feafons with a long undulated fleece of a dull ruft colour; the hinder parts are very flender and weak in proportion, being naked, wrinkly, and dufky in fummer, but covered like the foreparts in winter; the fhoulders are furmounted by a large flefhy hunch; the tail is about a foot long, moftly naked; and tufted at the end with black liairs. Mir Pennant confiders this and the European Bifon as of the fame fpecies.

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\text { 4. MuRk Ox.-3. Bos mofclatus. } 3 \text {. }
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The horns, which are very thick, broad, and clofe at their bafes, bend outwards clofe


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to the head, then downwards and a little backwards, having the points rounded, and turning upwards and outwards. Penn. Arct. zool. 12. 2. pl. viio
Mufk Ox. Penn. hift. of quad. n. 9. pl.ii. f. 2. Dobbs, Hudfon's Bay. 18. 2ј.-Boeuf mafqué. Jeremie, voy. iii. 314. Char!. noliv. fr. v. 194. Sm. Duff, vi. 191. Lev. muf. Edir. muf. Wrir's muf.

Inhabits North America, from New Spain to the Icy Sea.-The Mufk Ox lives in herds of twenty or thirty individuals, frequenting moftly the rocky and barren mountains; it runs nimbly, and is very active in climbing the rocks. In height this fpecies is lower than a Deer, though much larger in the belly and fize of the limbs; the horns of an old Bull are near two feet in circumference, and the fame in length, and fometimes weigh thirty pounds each; thofe of the Cow lhave the fane curvature with the Bulls, but are fmaller and more diftant at the bafes. The whole body is covered with very long, fine, black hair, having a dulky mane, tinged with reddifh, on the neck and back; under this outer coat is a fleece of exquifitely fine afh coloured wool; the fhoulder is hunched; the legs are covered with finooth whitifh hair; the hoofs are fhort, broad, and black; the tail is very fhort, and is covered and involved in the general long hairy coat; the ears are erect, fharp pointed, and dilated in the middle, being thickly covered with dufky hair, and marked with a white fripe. The flefh taftes very frong of mufin, but is wholefome, and the heart is foftrongly infected as hardly to be eatable. Some fkulls of this fpecies, with the horns, have been found in the mofly plains of Siberia near the mouth of the Oby ; and one was feen by Fabricius that had floated on the ice to Greenland, though he fuppofed it to belong to the Grunting Ox.

## 5. Grunting Ox.-4. Bos gruniens, 4.

The horns, which are fhort, rounded, flender, and fharp pointed, are diftant at the bafes, erect, and bent outwards; the hair on all parts of the body is very long and pendent; the tail is covered with very long, flowing, fillsy hairs.
Grunting Ox, with a tail like that of a horfe. I. G. Gmelin, nov. com. Petrop. r. 339. t. 7.Bubalus, with a tail like that of a horie. Pall. act. Petrop. i. part 2. p. 332.-Doeuf velu. Le Brun, voy. i. 120. t. 129.-Cow of Tartary. Sm. Buff. viii. 225.-Bubul. Bell, trav. i. 22 4.-Tangutifcher Buffel. Pall. nord. Deytr. i. t. 1.-Grunting Ox. Penn. hift. of quad. n. 7.-Poephagus. Aelian, de 2n. xvi. c. g.

Inhabits Tangut, Mongalia, and Thibet; and is cultivated, though with confide:able variety of fize and colour, in Siberia, China, Perfia, and India.-The fize of this animal is various; fome individuals muft be very large, as the tail, which does not reach the ground, is fometimes fix feet long; the head is fhort, with a broad nofe, thick hanging lips, and broad ears, which point downwards, and are befet with coarfe briftes; the horns are diftant, fhort, flender, and wery fharp pointed, having a long curling tuft of hair between; the hair on the middle of the fore-head is radiated; the fpace between the fhoulders is much elevated; along the neck, and fometimes 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 way long, while on the reft of the body it is like that of a Goat; the hoofs are large, and the fpurious hoofs project confiderably; the tail is broad, and is covered with long, flowing, glofy, filky hairs, fometimes white or filvery, and at other times black. The flefh of the full grown animals is hardly eatable. A bezoar is frequently found in the fomachs of this frecies.

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The above defcription is taken from the wild breed, which is of tremenduous fiercenefs, infomuch that if wounded in the chafe they turn furiounly on the affailant, and if he does not efcape they never ceafe tofling him with their horns till he is deftroyed; even the domefticated breeds retain their fiercenefs, and are eafily irritated, efpecially at the fight of any thing red; their anger is expreffed by fhaking their bodies, moving their tails, and by the menacing look of their eyes, and, if not guarded againft, their attacks are fo fudden and violent that they can hardly be avoided. This remarkable fecies or variety of Ox was firft mentioned by Aelian among the ancients; they are afterwards taken notice of by Cofmos, Rubruquis, and Marco Paulo, which laft fays that they almoft equal the Elephant in fize: The domefticated varieties, to be taken notice of below, though employed for carriage and draught, are liable, like their original ftock, to fudden paffion, which obliges the inhabitants to cut off the fharp ends of their horns to render their attacks lefs 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 domeftic breeds, and Dr Gmelin feems to doubt whether the Buffilo may not be derived from this fpecies. The following varieties are mentioned by anthors, befides the wild breed juft defribed.
ß. Ghainouk.-Bos grumiens Gbainouk.
This, though domefticated, refembles the wild breed in every thing, except that, like all cultivated cattle, it is fubject to confiderable variety in colour. Pennant.
2. Sarlyk.-Bos gruniens Sarlyk.

This is a degenerated race, but not defcribed; perhaps it is the hybrid produce of the genuine breed with the common cattle of the country. Pennant:

## ภ. Hornlefs grunting Ox - Bos gruniens ecornis.

Has no horns, but is furnifhed with an immenfe thicknefs of bone on the fore-head. Pennant.

Has flat horns, which are firft extended outwards, then turned upwards, and bent inwards at the ends.
 Bubalus. Briff. regn. an. 81. n. 4.-Bubalus. Gefn. quad. r39. Jonft. quad. t. 20. Raj. quad. 72.Buffelus. Aldrov. bif. 365. f. p. 366. Jonft. quad, 53. Charlet. exerc. 8. Klein, quad. 10.-BuE falus. Pall. nov. com. Petrop. xiii. 460. t. i1. 12.-Taurelephas. Ludolf, aethiop. i. c. io. n. i.Buffalo. Sm. Buff. vi. 15 I. pl. clxviii. Barbot, guin. 209. 486. Pcnn. hiff. of quad. n 8. Zimmerman. 369.-Buffel. Gefn. thierb. 58. - Buffelochfen. Kolben, Cape. 143. t. 5. f. 2. Br. muf. Afhm. muf. Lev. mur.

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 geftation fhew the difference of fpecies, 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 ufed for draught and carriage, being guided by means of a ring in the nofe, and are employed for the dairy, though the milk is much more greafy than that of common Cows. The $\mathbb{1 k i n}$ is exceedingly thick; the hair is black or dufky red, and rather fcanty; in very hot countries the flin is almolt naked; the head is fimall, with curly hair on the fore-head, and a kind of beard under the throat and jaws; the horns are black, thick, fomewhat compreffed, and often very large ; there is no dewlap on the breaft; the ears are large, the nofe is broad, and the eyes are white; the limbs are long, and the tail is fhort and flender.

Mr Pennant mentions the following animals as varieties of the Buffilo.

## B. Naked Buffalo. - B. Bubalus Seminudus.

The horns are fmall, compreffed fideways, taper, fharp pointed, and ftanding backwards: The rump and thighs are naked. Penn. hiit. of quad. n. 8. A. pl. ii. f. i.

Inhabits India.-This animal is of a fmall fize, like a Welfh runt ; the hair on the fore part of the body is brifty, and fo thin that the flin appears through; on the rump are two duky perpendicular fripes, and on the thighs two tranfverfe bands of the fame colour.

## r. Anoa.-B. Bubalus Anoa.

Of a very fmall fize. Penn. hift. of quad. n. 8. B.
Trhabits the mountains of Celebes.-This animal, of which we have no defcription, is about the fize of a middling Shecp, and is very fierce; it lives in fmall herds, taking fhelter in the caverns, with which the mountains of that ifland abound; is very difficulty caught, and very impatient of confinement.

## 8. 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 defcription of this animal is not fufficient to point out its proper place in this genus, all that Mr Knox fays being that its back ftands up in a flarpridge.

## 7. Cape $O x .-6$. Bos cafer. 6 .

The horns, which are very broad and clofely united at the bafe, fland firf outwards, then turn forwards, and the points, which are taper, bend upwards and inwards. Sparrmann, act. Stock. I779, i. n. 8. t. 3. f. inf.
Cape Buftalo. Sparrm. voy. pl. ii. fig. inf.-Cape Ox. Penn. hift. of quad. n. 9. A. Maffon, Phil. Tranf. lxvi. 296. Forfters, voy. i. 83.-Bubalus africanus. Brif. regn. an. 79. n. 2. Jonft. qquad. t. I8.-Africanifcher Buffel. Gefn. thierb. 60.-Bos africanus. Raj. quad. 73. Aldrov. bif. $3^{66}$. f. p. $3^{64}$. Jonft. quad. 52.

Inlabits Africa near the Cape, and in Guinea.-This is a very large, exceffively fierce, and enormoufly ftrong animal; it lives in the woods; is fond of wallowing in the mire, and is very dangerous to travellers, rufhing fuddenly from the thickets in which it lies concealed, and tramples men, hor$\mathrm{U}_{\mathrm{u}}$ 2
fes,
fes, and oxen, under its feet; is fo fwift, efpecially in running. up hill, that a horfe cannot overtake it ; and fo ftrong, that one of three years old being yoked in a waggon with fix tame oxen, their whole united ftrength could not force it to move. It is of a black or dulky afh colour ; the face is covered with long harfh black hair; the chin, underfide of the neck and dewlap, have long, coarfe, pendent, black hair; the horns are very thick and rugged at the bafe, near thirteen inches broad, and laid dat fo as to cover moft part of the top of the head; the upper half is fmooth, taper, and fharp pointed; they meafure fometimes above three feet long, and weigh twenty-five pounds; the fkin is thick, tough, and very ftrong; the hairs are very ftiff, 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 fimall mane; the ears are large and flouching; the tail is fhort, almoft naked, and tufted at the end with long black hair. The body and limbs are very thick and frong; it is above eight feet long, and about fix feet high; the head hangs much, and has a very fierce malevolent afpect. The feflh is coarfe, but juicy, and has the flavour of venifon.

## 8. Baas - Bos barbatus.

Has fhort horns ; a beard on the chin, and curly hair on the breant. 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 deferibed, lives in the country of the Namaques, who call it Baas, or the Mafter Courier, on account of its vaft fwiftnefs: It is like the Common Ox, but larger, and of a grey colour; the head is fmall, the horns thort, the hair on the breaft is curied, and on the chin is a beard like that of a Goat.

The horns are almoft erect, clofe at the bafe, recede in the middle, and approach at the points. Penn. hift. of quad. n. io. pl. ii. f. 3 .
Bubahus, f. Bos parvus africanus. Belon, obf. 119 .-Juvenca fylveftris. Profp. alp. aeg. i. 233. t. i4. f. 2.-Bos exiguus africanus. Klein, quad. ir.-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 Staj, compact and well made, with a thick neck, the fhoulders a little elevated, and the legs fhort ; the hair is fhining, 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 poffibly be a variety of the Dant.

## VI. B E L L U ※.

## Has obtufe wedge-like, truncated fore-teeth in both jaws. The feet are armed with hoofs.

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\text { XLI. H O R S E.42. E } 2 U U S .33
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Has fix parallel, erect, fore-teeth above, and fix, which project a little, in the lower jaw; one fhort tufk, diftant from the other teeth on each fide of both jaws: The female has two teats in the groin.

This genus is the only one which has fingle hoofs, though that circumftance is lift out of the charaster on account of an obfcure fpecies in Chili which is faid to have cioven hoofs; feveral of the fpecies are of confiderable ufc to mankind for draught, for burthen, and for the faddle; they all fight by biting, and by kicking with their hind feet. It is the only race of animals in which the mammac are wanting on the males, though we are told that they are placed on the glans penis.

## 1. Common Horfe.-2. Equas Caballus. 1.

Has folid hoofs, a long flowing mane, and the tail is univerfally covered with long hairso Syit. nat. ed. xii. 100. n. i. Brif. regn. an. 100. n. I.
${ }^{\prime}$ I $\pi \pi 0$. Arift. hift. an. i. c. 5 . 7. ii. c. 5. 8. 18. iii. c. Io. v. c. ii. vi. c. 22. vii. c. I7. viii. c. If. ix. c. 5. Aelian, an. iii. c. 2. iv. c. 6. 7. 8. i. Oppian, cyneg. i. I66.-Equus, Equa, Equiferus. Plin. hiff. nat. viii. c. 42 . x. c. 63 . xi. c. 37 . xxviii. c. 10. I 1. Gcfn. quad. 442 . f. p. 443 . Schwenkf. theriot. 8g. Aldrov. folid. 2. f. p. 2I. Jonit. quad. t. I. 4. Charlet. exerc. 3. Wagn. helvet. I74. Sibbald. Scot. 6. Raj. quad. 62. Rzacz. Polon. 217. 240. Sloan, jam. ii. 327.-Cheral, or Horfe . Sm. Buff. iii. 306. pl. xi. Penn. hift. of quad. n. i. Brit. zoof. i. i.-Rofs. Gcfn. thierb. 306 . f.. p. 307.

## a. Wild Horfe. - a. E. Caballus ferus.

Of this there are feveral varieties mentioned in authors.
Wilde Pferde. J. G. Gmelin, It. i. 2 I r. iii. 5 10. S. G. Gmelin, It. i. 44. t. 9. Pallas, It. i. 211.-Tarpany. Rytfchk. Orenb. i. 223.-Takija, or Wild horfes. Bell, trav. i. 225. Du Halde, Chin. ii. 254. Leo. afric. 340. Journ. hiftor. 40.

## ß. Domettic Horfe.- $\beta$. E. Caballus domeficus.

Of this there is almoft an infinite variety, in colour, fize, and form. Klein, quad. 4.

Horfes are domefticated and cultivated with great care in almoft every part of the earth. It is the moft generous, moft fpirited, and moft docile of all quadrupeds, the Dog alone excepted, and is excellently adapted for a variety of ufeful purpofes, for draught, burthen, and riding. In a naturally wild ftate, horfes are found in Beffirabia, and the deferts of Great Tartary; thofe of the deferts near the Don are the offspring of the Ruffian cavalry horfes, turned loofe for want of forrage during the fiege of Afoph in 1697: Wild Horfes are likewife found in various parts of Africa; and, thourgh none of the fpecies was found in America before its difcoyery by Columbus, there are now vaft numbers wild in the great Savammas of South America, on both fides of the Rio Plata, defcended from fuch as were carried there by the Spaniards, and happened to ftray from their mafters; in the wild ftate, they go in flocks under the conduct of a leader, are extremely vigilant, placing centinels to give notice of danger, very timid, fhy, and fwift. Thofe of Tartary are generally of a dun or moufe coiour, and lefs than the domeftic kind, being covered with a very thick coat of hair, efpecially in winter; their heads are large, and their fore-heads much arched.

The domeftic hories vary much in fize, colour, figure, and firit, from climate, foil, food, breeding, and management: The moit elegant, fwiftef, and moft generous, come from Arabia; very finall ones are found in Scotland, efpecially the Shetland ifles, Iceland, Norway, and Ceylon, Horfes not exceeding thirty inches high having been brought from that ifland, whereas fome of the European breeds reach fix feet. England, from attentive culture, and by intermixture of the beft foreign breeds, can boaft of having the fwiftef, largeft, ftrongeft, and moft clegant varieties now in the world. The male is named Horfe, or Stallion, when emafculated Gëlding, 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 diftinguifined, according to the purpofes to which they are applied, and other circumftances, into Draught-horfe, Pack-horfe, 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 exen Aconite with impunity: The tail. is of great ufe for driving away flies and other infects: When fatigued, or on purpofe to fcratch, Horfes frequently roll on their backs: The fomach is finall, and the food, without being ruminated, pafles through the body undifolved, 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 Horfe has no gall bladder, and never vomits; the dung is remarkable by its property of becoming very hot during putrefaction. Horfes are much annoyed by hard fubftances getting into theirears, or by pricks in the feet; they diflike dirty or fpoiled foods, are impatient of the brialle till accuftomed to it, and are much tormented by the Horfe-fiy, Gad-lly, and Phellandrium curculio. They change their fore-teeth in the fecond, third, and fourth years of their age, and acquire tuiks 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 ufeful purpofes: The Tartars and Arabs are fond of the flefh; the former ufe the milk, which they convert by fermertation into an intoxicating liquor, called Koumifs, winich is faid to cure confumptions.

## 2. Dfhikketei.-3. Equus Hemionus. 5.

Ifas folid hoofs, is of a uniform colour with no crofs on the back, and the extremity only of the tail has long hairs. Pall. It. iii. 217.
DRidketei, of the Monguls. Pall. nord, beytr. ii. 1. t. T. Nov. com. Petrop. xix. 394. t. 7.-

Yo-to-tfe. Du Halde, ii. 253.-Hp:ovocs. Arift. hift. an. vi. c. 36.-Hemionos. Plin. hiff. nat. viii. c. 44.-Czigithai. Sm. Buff. vi. 274.-Dhikketei, Wild Mule, Half-afs, or Fcieund Mule Penn. hift. 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 fhy, cautious, timid, and very fwift, having very acute fenfes of finell and hearing, is very wild, and has not hitherto been tamed. Like horfes and cattle, they are very fubject to a diftemper called the Murrain; they fight by kicking and biting; the female is in feafon in Auguft, and brings almoft always one foal in fring; the flafle is reckoned cxcellent by the Monguls and Tungufi, and they ufe the flkins for conftructing a kind of boat. In fize and general appearance this animal refembles the Mule, though handfomer; the ears and tail are like thofe of the Zebra, the hoofs and the body are like the Afs, and the legs refemble thofe of the Horfe; it differs. from thefe quadrupeds in having a very large head with a flat fore-head, which grows narrow towards the nofe, and in having a flender neck, which is more rounded than in the other fpecies of this ge nus, and has a fhort, upright, foft, greyifh mane; inftead of a lock of long hair on the fore-top; there is a tuft of downy hairs not two inches long; the ears arc long, erect, and lined thickly witl 2 whitifh curly hair; the winter coat is about an inch and a half long, grey at the tips, of a brownifh afl colour at the roots, exceedingly foft, and undulated on the back; in fummer the coat is much fhorter, and exceedingly fmooth, being marked all over with beautiful whorls: The end of the nofe is white, and the reft of the face fomewhat tawny; the buttocks, infide of the limbs, and the belly, are white; a blackiih lift runs along the back, broadeft at the loins, and narrowing to the tail; the tail is like that of a Cow, covered with fhort hair for half its length, and the lower part with long afh coloured hairs. The weight of this animal is about five hundred and fixty pounds; it meafures fix feet and a half from the tip of the nofe to the origin of the tail, and is about three feet nine inches high at the fhoulder: The mouth contains thirty-four teeth, which is two fewer than in a Horfe.

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\text { 3. Afs.-4. Equus Alinus. } 2 .
$$

Has folid hoofs; the male has a dufky crofs on the fhoulders; only the lower part of the tail is furnihhed with long hairs. Syft. nat. ed. xii. 100. n. 2. Faun. fuec. i. n. 35. Briff. quad. 70 .

Afne, or Afs. Sm. Buff. iii. 198. pl. xii.-Efel. Gefn. thierb. 9r.-Afs. Penn. hift. of quad. n. 3. Brit. zool. i. n. 2.

The fore-head is much arched; the mane is woolly and duky; the ears are long anderect.

Ovargos. 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. 25 8. 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. Brif. regn. an. 104. n. 5.-Afne fauvage. Marmol. afr. i. 53.-Wild Afs. Bell, trav. i. 212.-Wilder Efel. Pall. nord. beytr. ii. 22. t. I. Hzblizl, in $\mathrm{D}^{\circ}$. iv. 88.-Koulan, or Wild Afs. Penn. hitc. of quad. n. 3. A.

Inhabits the mountainous deferts of Great Tartary, from whence it migrates during winter into India and Perfia, efpecially about Cafbin, where it is found all the year; is likewife 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 fands higher on its legs than the Common $\Lambda \mathrm{fs}$, and is exceedingly active and fwift; although extremely fierce in its wild ftate, it is very readily tamed, efpecially when caught young; it has a moft exquifite fenfe of fmelling, and very acute vifion; is particularly fond of falt ponds and fprings, and of faline and bitter plants: The general colour is white with a filvery fplendour, the top of the head, neck, and fides, being pale yellow; the mane is dufty or blackifh brown; and along the back is a liff of a coffee colour, compofed of waved bufhy hairs, and croffed, in the males, by a fimilar band at the fhoulders; the hairs are fofter than thofe of a Horfe; the flain 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 flcfk is much efteemed by the Kirgifian Tartars. The Onager meafures almoft feven feet from the tip of the nofe 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 almoft a foot in length; the female is confiderably fmaller, and lefs ftrongly madc, than the male, and wants the dark coloured crofs band at the fhoulders: The upper part of the face, the neck, and fides, are flaxen coloured; the fore parts are clivided 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 fhaded rays pointing downwards at the fides of the neek.

## B. Domeftic Afs.-2. B. E. Afinus domeficus.

## The fore-head is rather flat; the mane is fhort; the ears are long and flouching.

'Ovos. Arift. hift. an, i. c. 17. ii. c. 18. v. c. Ir. vi. c. $2_{3}$.-Afinus. Plin. hift. nat. viii. c. 43. Gefn. quad. 3.f. p. 4. Schwenckf. ther. 61. Aldrov. folid. 295 Jonft. quad. 16.t. 6. Sibbald. 'Scot. 6. Raj. quad. 63. Sioan, jam. ii. 327. Klein, quad. 6.-Afne. Tavern. trav. i. 344. Chardin, trav. iii. 33. Sm. Buff. iii. .398. pl. xii, -Efel. Ofb. oftind. 35-Afs. Penn. hift. of quad. n. 3. Brit. zool. i. 2.

The domeftic $A f_{s}$ is cultivated almoft in every quarter of the world, being a frong, hardy, patient, and fure footed animal, but obftinate, fubborn, ftupid, and frequently vicious; it grows to a confiderable fize, and is tolerably handfome in the wariner regions, but degenerates much in the colder countries, in which their ears flouch confidcrably more than thofe which are bred in Africa and the eaft. Buffon fuppofes the Afs to have come originally from Arabia to Egypt, and thence, through Crecce, to Italy, France, Britain, Germany, and other countries. The voice of the Afs is named braying; he eats greecily of thiftes, and other fpinous, and difagreeable herbs, which Horfes will not touch, except when prefled with hunger. The Afs comes to its full fize in about five, and lives for about thirty years; both fexes are very ardent, and the female, after twelve months, according to Buffon, though Limaeus fays two hundred and ninety days, produces almoft always one young at a birth. The principal employment of $\Lambda$ fics in Britain is for carrying the luggage of beggars, sipheys, and takers, and the milk is much commended for pectoral complaints; in Spain and the Levant they are cultivated with great carc, efpecially for the males, which, with mares, produce mates of a tine bisced.

The hybrid produce of a Jack-afs with a Mare; has a large clumfy head, long erect ears, a fhort mane, and a thin tail. Brif. quad. 103. n. 4.
'Oœяย. Arift. hift. an. i. c. 7. ii. c. 5. vi. c. 24.-Mulus, Mula. Plin. hift. nat. viii. c. 44. xi. c. 37. Gefn. quad. 793. Schwenckf. ther. 62. Aldrov. folid. 358. Jonft. 2I. t. 6. Charlet. exerc. 4. Sloan, jam. ii. 327 .-Afinus biformis. Klein, quad. 6.-Mule. Sm. Buff. viii. I. Penn. hift. of quad. p. 8. Brit. zool. i. i3.-Maul efel. Gefn. thierb. io8. Ofb. oftind. 35 .

The Mule is much valued for the faddle, and for drawing carriages, in Spain, Portugal, Italy, and the Eaft, and in the warmer parts of America: In thefc countries, where great attention is paid to the breed, it is as tall as the Horfe, exceedingly well limbed, but not fo handfome, efpecially about the head and tail; they'are moftly fterile, though there are a few inftances of female Mules producing foals, and even of the male having impregnated females both of the Afs and Horfe fpecics, but thefe are exceedingly rare.

## §. Bardeau.-2. ס. E. Afinus Hinnus.

The hybrid produce between a She afs and a Stalion; the head is long and thin, the ears are like thole of a Horfe, the mane is thort, and the tail is well filled with hair. Sm. Buff. viii. 2.
rıvag. Arift. hift. an. i. c. 7.-Hinnus. Plin. hift. nat. viii. c. 44. Gefn. quad. i8. Aldrov. folid. 358. Jonft. quad. 2 I. Charlet. exerc. 4. Raj. quad. 64.

The Bardeau is much fmaller, and lefs ufeful, as well as lefs common, than the Mule, and is more of a reddifh colour; in the ears and tail it has a greater. refemblance to the Horfe, but the mane is fhort like that of the Mule; it is, however, very little known, being feldom cultivated on purpofe, becaufe lefs hardy, and lefs fitted for the vasious purpofes of life, ${ }^{\text {tthan }}$ either the Horfe, the Afs, or the Mule.
4. Zebra.—s. Equus Zebra. 3*

Has folid hoofs; is of a pale buff colour, and friped all over the body with perpendicular brown bands, and the limbs with crofs ftripes; the ears are fhort and erect; the mane is fhort, and the tail is thinly garnifhed with hair at the end. Briff. regn. an. 101. n. 2.

Equus indicus. Jonft. quad. t. 5.-Equus brafilienfis. Jacob. muf. reg. 3. t. 2. f. i. Laur. muf. reg. t. 3. f. i8.-Equus ferus, Zebra, f. Zecora. Klein, quad. 5.-Zebra. Purch. pilg. ii. Ioor. Charlet. exerc. 4. Raj. quad. 64. Barbot, guin. 486. Penn. hift. of quad. n. 4. Nieremb. hift. nat. 168. Sm. Buff. vi. 264. pl. clxxxii. clexxiii.-Zecora. Ludolf. aeth. i. c. 10. n. 35 . comm. 150.-Zeura, or Zecora. Lobo. abyff. i. 291.-Zebra indica. Aldrov. folid. 416. f. p. 417. Jonft, quad. 21. t. 5.-Male Zebra. Edw. av. t. 222.-Wild Afs. Kolben, cape. ii. I12.-Indianifher Maulthier. Gefn. thierb. 120.-Africanifches Tygerpferd, oder Efelpferd. Knorr, del..ii..t. к. 8. Lev. muf.

Inhabits Africa, from Congo and Angola acrofs to Abyffna, and fouthwaids to near the Cape of Good Hope.-This extremely beautiful animal lives in herds, chiefly frequenting the open plains,

Voz. I.
but is excefiively flyy, and runs into the woods on the approach of mankind. It is exceedingly fwift, vicious, and untameablc; is about the fize of a Mule, and is fhaped much like the Afs, with fhorter and lefs flouching ears. The male and female are marked exactly in the fame manner, as defcribed in the character.
B. Hybrid Zebra.-E. Zebra bybridus.

Mr Pennant informs us, that by painting a common Jack-afs to refemble the Zebra, a female Ze= bra admitted its embraces, and produced a hybrid animal, fome years ago at London; but gives no account of its appearance.
5. Quacha.-6. Equus 2uagga. 4.

Has folid hoofs; is of a bright bay colour on the upper parts of the body, and friped with perpendicular brown lines; the flanks are fpotted, and the rump plain; the belly, thighs, and legs, are white. Penn. hift. of quad. n. 5 .
Opuagha. Maffion, trav. in Phil. Tranf. 1xvi. 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 likeewife keeps always in feparate herds, and is diftinguifhed from the former fpecies by the Hottentots.

## 6. Chilefe Horfe. - I. Equus bifulcus. 6.

Has cloven hoofs. Molin. hift. nat. Chil. 284.
Inhabits South America.-This obfcure 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 refembles the Horfe, for which reafon it is placed by Dr Gmelin in this genus, though its cloven hoofs are fimilar to thofe of the animals belonging to the former order: It is a very vicious, wild, and exceedingly fwift animal, having the fize, hair, colour, nofe, eyes, neck, back, tail, legs, and genitals, refembling the Afs, with which it likewife agrees in its internal ftructure, but wants the dufly crofs on the fhoulders, and refembles the Horfe in the figure of its ears, and the neighing found of its voice. - Perhaps this animal may only be a wild Horfe, degenerated through the inclemency of the mountainous diftrict which it inhabits, and the circumftance of its having cloven hoofs may be exaggerated, or only a miftake.-T.
XLII. HIPPOPOTAMUS.-4I. HIPPOPOTAMUS. 34.

Has four fore teeth in cach jaw; thofe above are placed in pairs at fome diftance from each other; thofe below are prominent, the two intermediate teeth being confiderably longer than the other two. In each fide of each jaw is one tufk; thofe 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 fpecies hitherto known, which is fuppofed to be the Behemoth of the book of Job.

## 1. Amphibious Hippopotamus.- I. Hippopotamus ampbibius. I.

Has four fmall rounded hoofs on the edges of all the feet. Horttuyn. iii. 405 . t. 28.
Потхрио5 ${ }^{\text {' }} \boldsymbol{\pi} \pi 05$. 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. ri. Bel. poiff. 47. f. p. 50. D ${ }^{\circ}$. obf. 104. Gefn. aquat. 494. Column. aq. 28. t. p. 30. Aldror. dig. iS i. 183. Jonf. 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. ack. Stock. $\mathrm{I}_{778 \text {, iv. n. 12: D }}$. 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. 5 I. Juffieu, act. Parif. 1724, p. 209. Lobo,
 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 Abyfinia 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 excurfions of fix miles from the water, its general habitation, during the night in queft of food; it fometimes feeds on the roots of trees, but never on fifhes, though fome authors. fay that it devours-fifh, 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 fo 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 fhy, unlefs when irritated or wounded, when it will attack boats and mankind with great fury. On dry land it walks flowly, and even with difficulty, efpecially in. marfhy places, on account of its clunfy form and great weight; but when purfued it takes to the water, where it fwims with great fwiftnefs, and walks at the bottom with eafe; this circumftance 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 fequeftered fituations, and in the night, it often raifes the whole head. When it leaves the water, to graze on fhore, it fometimes puts out half the body to look around, but fometimes ruffes 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 xivers, or in iflands, and in thefe places the femalebrings forth one young at a time, which fhe fuckles in the water. The voice is between that of a: Horfe and an Elephant, or a Buffalo, and is very fonorous.

The Hippopotamus is almoft as large as an Elephant, being-fometines feven feet'high, feventeen feet long, and weighing from four to five thoufand pounds, fo that twelve oxen have been found neceffary to drag afhore the carcafe of one that had been fnot in a river near the Cape. Dr Ginelin compares the body and general appearance to an Ox , the feet to a Bear, the toughnefs and thicknefs of fkin to a Rhinoceros, the tulss, tail, hinder part of the body, and mode of living, to a Hog. The head is enormoully large, with a very wide mouth; the ears are finall and pointed, with a border of fhort fine hairs; the eyes and noftrils are very fmall; the lips have feveral tufts of ftrong coarfe hairs; the tufks are fometimes twenty-feven inches long, and near feven pound weight each; thefe and the grinders are very write, 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 efteemed ameng dentifts for making falfe teeth; of the grinders there are fix on each fide above and eight below. The fikin is of a dark colour and almoft naked, having only a few fcattered, and fcarcely decernible, white hairs, which ftand a little thicker on the neck, but with-out forming any mane; the fkin is fo thick and tough as to refift a bullet when dry, and is ufed by the inhabitants of Africa for making fhields. The tail is about a foot long, and almoft 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. The flefh is by fome authors faid to be delicious, while others reprefent it as very dry and of difficult digeftion, while the fat, of which a full grown animal is faid to yield about two thoufand pounds, is efteemed excellent, and is recommended as a fovereign remedy for pulmonary difeafes, 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 tuiks. The fore feet have each four, and the hind feet three hoofs.

Of this genus there is only one fpecies, which is entirely confined to South America, and therefore was unknown to the ancients.

## 1. American Tapir.-1. Tapir americanus.

Has a long extenfile and flexible probofcis or fnout. Briff. regn. an. ing.
Thpir. Sm. Buff. vi. 243. pl. clxxxi.-Long-nofed Tapir. Penn. hift. of quad. n. 69.-Tapihires. Thevet. cofm. ii. 937. b.-Tapiirete. Marcgr. braf. 229. Pif. ind. ıoI. Raj. quad. 126. Klein, quad. 3 6.-Tapirouffou. Lery, voy. r54-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 'Tizpir. Erxl. mam. 19I. n. I.-Wafferfchwein. Knorr. del. ii.t. K. 13.-Mountain Cow. Dampier, voy. ii. 102.-Elephant hog. Wafer, in Damp. voy. iii. 400.-Species of Hippopotamus, or Riverhorfe. Bancroft, guian. 127 .

Inhabits the woods and rivers of the eaftern coaft of South America, from the Ifthmus of Darien to the river Amazons. -The Tapir fleeps during the day in the thickeft and moft covert places of the woods, adjacent to the banks of rivers and lakes, into which it plunges when difurbed, and fiwims or walks on the bottom in the fame manner with the Hippopotamus; it goes about during the night in queft of food, and feeds on grafs, fugar 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, fluggifh, and flow footed, but fwims remarkably well, and dives to the bottom of the water, where it walks as well as on dry land. When domefticated it becomes familiar, will take any thing that is offered, and will even rummage with its nofe in peoples pockets for meat. This is the largett of the animals which are peculiar to America, being about the fize of a fimall cow, and having fome general refemblance to a hog: In the male the nofe is elongated into a fort of probofcis or flexible trunk, which extends far beyond the lower jaw, and is capable of being contracted and extended at pleafure; the fides of this finout are furrowed lengthways, and with this the animal is able to lay hold of any thing and convey it to the month; the nofe of the female is deftitute of this elongation, and both jaws are of equal length, ending in a pointed fnout: The ears are roundifh and erect; the eyes are very fmall; the neck is thick, flort, 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 fhort and thick, with finall, black, hollow hoofs; the tail is very fhort and naked; the fkin is very tough, and is covered with a fhort dufky coloured fur, which in young animals is fpotted with white: The voice of this animal refembles a kind of hifs: There are five grinders on each fide in each jaw, with a vacancy between them and the cutting teeth.

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\text { XLIV. H O G.-43. S } \cup \text { S. } 35
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Has four cutting teeth in the upper jaw, whofe points converge; and, for the moft part, fix in the lower jaw, which fland forwards: There are two tufks in each jaw, thofe in the upper jaw being fhort, while thofe of the under jaw are long, and extend out of the mouth. The fnout 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 gentus have a very firm cartiaginous fout, of a round form, provided with ftrong tendons, anä with it they dig in the earth in queft of roots, and other kinds of food; they are in general rather foul feeders, and live almott indifferently on animal and vegetable food, even devouring the moft corrupted earcaffes, and the excrements of other animals; they are likewife fond of wallowing in the mire. The male is named Boar, the female Sow, and the young ones Pigs; the female has a great mumber of teats difpofed longitudinally along the belly and breaft, and is extremely prolific.

## 1. Common Hog.-1. Sus Scrofa. 1.

The fore part of the back is befet with hard brifles, and the tail is hairy. Faun. fuec. 21.-
Amoen. ac. v. 46 r.
The Hog is domefticated almoft 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 fmell, efpecially the male; digs the earth with its nofe, and lives almoft 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 fhews confiderable choice. It is a lazy, indolent, and ftupid animal, yet can run fwiftly when urged, and fhews great figns of uneafinefs and reftlefnefs before high winds. When it is plentifully fed it becomes exceedingly fat, efpecially on the furface of the body, between the fkin and the panniculus carnofus, or cutaneous mufcle; it is fond of bafking in the fun and of wallowing in the mire; when irritated it runs furioufly againft an enemy, making a loud grunting noife, and foaming at the mouth. Though originally unknown in America, it has now become very common, and is extremely ufeful by deftroying Rattle-fnakes and other ferpents, which it devours with fafety. It is exceedingly lafcivious, yet very tardy, owing to the length and laxity of the penis ; the female has a valt 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 lofing its teeth; is much infefted with lice, and is fubject to hydatyds, fcrofula, meafles, and cutaneous eruptions, and is poifoned by eating pepper. The fpecies is fubdivided into the following varieties.

The ears are fhort, and fomewhat rounded. Briff. regn. an. $75^{\circ}$.

 Sus agreftus, Aper, Wild-boar. Raj. quad. 96.-Porcus. Plin. hift. nat. xviii. c. 35. Jonft. quad. t. 48. Klein, quad. 25 .-Aper. Gefn. quad. 1039. f. p.. 1040. Schwenkf. ther. 54. Aldrov. bif. 1013 .f. p. 1025. Jonft. quad. 105.t. 47. 48.-Wieprz-lefny, Dzik. Rzacz. pol. 213.-Cochon fauvage, Maron, Sanglier. Des Marchais, voy. iii. 296.-Sanglier, Marcaffim, Wild Boar. Sm. Buff. iii. 500 . pl. xx. xxiii. f. 1.-Wild Hog. Brown, jamaic. 487. Penn. hif. of quad. n. 6I. A.Wild Schwein. Gefn. thierb. 336. Ridinger, jagd. th. t. 6.

The Wild Hog, or, as it is ufually called, Wild Boar, inhabits the South of Europe, the north of Perfia, Japan, Afia from Syria as far as lake Baikal, the coaft of Barbary, India, Ceylon, Java, and: the other Indian iflands, -It is generally of a dark brindled colour, and fomewhat hoary, having foft, flort, curled hair beneath or between the briftles; the young ones have feveral longitudinal ftreaks, of yellowifh and dark brown alternately, from the rump to the back of the head along the back and fides. This animal, though very flothful, drowfy, and ftupid, is very fwift, and extremely fierce; the females ufually litter in May or June. In the Wild Hog, the fnout and tufks are confiderably longer than in the domeftic varieties; and it is not fo apt to become fat, efpecially on the bowels, where the fat is called larcl.
${ }^{\text {' } \Upsilon_{5} . ~ A r i f t . ~ h i f t . ~ a n . ~ i i . ~ c . ~ 5 . ~ 7 . ~ v . ~ c . ~ 13 . ~ v i . ~ c . ~ 8 . ~ 28 . ~ v i i i . ~ c . ~ 9 . ~ A e l . ~ a n . ~ i i i . ~ c . ~ 3 . ~ x . ~ c . ~ r 6 .-S u s, ~}$ Verres, Scrofa. Plin. hift. nat. viii. c. 5 1. x. c. 63. 73. xi. c. 37.39 . Gefin. 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 domefticus. 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. 33 1.Common domeftic Hog. Penn. hift. of quad. n. 6r. B. Brit. zool. i. 4 I.

The Common domeftic Hog is cultivated almoft all over the world, and varies exceedingly in fize 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 tranfported to that country. The domeftic Hog is ufually of a whitifh colour, frequently fpotted with black or brown, and often entirely yellowifh, brown, reddifh, afh coloured, or black. It is larger in the temperate regions, and fmaller in the hotter parts of the earth, and in thofe which are very cold; in Tartary it is very large, and of a filvery colour. The ears are longer than in the Wild Hog, fharp pointed, and flouch much forwards.

## r. Single-hoofed Hog.- I. $\beta$. b. S. Scrofa dom. monungulus.

Has undivided hoofs on all the feet.
Arift. hift. an. ii. c. 7. Plin. hift. nat. xi.c. 43. Penn. hift. of quad. n. 6I. ס.
This variety refembles the common domeftic 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.

The back is almoft naked, and the belly hangs down almoft to the ground.
Sus chinenfis. It. Wyoth. 62. It. fcan. 72. Briff. quad. 75.-Chinefe hog. Penn. hift. of quad. in. 61. \%. Forreft, voy. 39.-Javan hog. Kolben, cape. i. in 7.

This variety is common in China, in the iflands of the Indian Ocean and South Seas, and is found wild in great numbers in New Guinea; it is alfo now frequently cultivated in feveral parts of Eu-rope--It is confuderably finaller 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 almoft to touch the ground: The animal is confiderably more cleanly than the ordinary Hog; its flefh likewife is reckoned whiter and more favory.

## 2. Guinea Hog.-2. Sus Porcus. 2.

Has no briftes; the hinder part of the back is covered with long hairs ; the tail hangs down to the ground. Brif. regn. an. iog. 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. 6r. $\mu$.

## ß. Siam Hog.-2. B. S. Porcus fiamenfis.

The ears are erect and fomewhat pointed, and the tail almoft reaches the ground. Sm. Buff. iii. 500 . pl. xxi. Penn. hift. of quad. n. 6r. $\beta$.

Thefe two animals feem only to be varieties of the Common domeftic Hog: The former inhabits Guinea, from whence it has been tranfported to Brafil; the latter is found in the kingdom of Siam.Both are fmaller than the Common Hog, and the head is lefs in proportion; the tail is very long and naked; the ears are longifh and much pointed; the body is covered with fhort and fhining 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 circumftance is not mentioned by the authors he has quoted, it is here omitted.-T.

## 3. Pecary.—3. Sus Tajaflu. 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. 16I.Porcus mexicanus. Charlet.ex. 14. Seb. muf. i. t. Iri.f. 4.-Porcus mofchiferus. Klein. quad. 25.Sus umbilico in dorfo. Aldrov. bif. 939.-Quauhuatl, Quauhioyamatl. Fernand. an. 8.-Quauhtla, Coymatl, Quapizotl, Chuchie, Cofcui. Hernand. mex. 637 - Tajafloub, Sanglier. Thevet, cofmogr. ii. 936. b.-Zainus, Saino, Zaino. Nieremb. hift. nat. i 70. Jonft. quad. ro7. t. 46. Muf. worm. 340.-Tajaçu, Caaigoara. Marcgr. braf. 229. Pifo, ind. 98. Tyfon, phil. tranf. n. 153. p. 359. Raj. quad. 97.-Javari, Paquire, Paquira. Rochefort, ant. 138. Gumill. orin. i. 293.-Pingo. Fermin, furin. 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. hift..of quad: n. 64 .

Inhabits the warmeft parts of America, and in fome of the Weft India iflands.-It livesin confiderable flocks among the woody hills, and is very fierce, yet eafily tamed; it does not wallow in mire like the Common Hog, neither does it become fo fat: It feeds on fruits, roots, ferpents, and reptiles. The flefh is extremely good if the gland on the back be cut out immediately after death, otherwife the fetid ichor foon taints the whole carcafs with an intolerable odour. In general figure this animal refembles the Chinefe Hog, already defcribed, and is about three feet long. The ears are fhort, erect, and pointed; the eyes are rather funk; the neck is thick and fhort; the briftles are almoft as thick as the fpines of a Hedge-hog, of a hoary black colour, and furrounded with feveral whitifh rings; they are longeft on the back and ridge of the neck, being almoft five inches in length, on the fides they are fhorter, and the belly is almoft naked; from the fhoulders to the breaft is a band or collar of white, which is interrupted on the back; the open gland is fituated almoft at the rump, on the top of the back, and continually difcharges a ftinking unctuous ichory fluid, which, when dry, has the flavour of caftor. The voice refembles the grunting of the Common Hog, but is ftronger and harder, efpecially when angry. The tufks of the upper jaw fcarcely project when the mouth is fhut, and thofe of the lower jaw are entirely covered.

## B. Leffer Pecary.-Sus Tajafu minor.

Is a grood deal fmaller than the former, and of a reddifh colour. Sm. Buff. v. 277 .
Inhabits Guiana.-The Count de Buffon, on the authority of Mr de la Borde, defcribes two fpecies or varieties of the Pecary, as inhabiting Guiana, in South America; the hrger, which is the Pecary already defrribed, is black, with white hair on its chops, and weighs about a hundred pounds;
the fmaller, which is the one now in queftion, is of a reddifh colour and weighs fixty pounds. Both, it would appear, have the dorfal gland, and agree much in manners, but the fmaller variety is faid to be fiercer than the other.
2. Patira.-Sus Tajaffu Patira.

Refembles the former, but has a white line along the fpine. Sm. Buff. v. 278.
Inhabits Guiana.-This variety is likewife introduced on the authority of M. de la Borde; it is of the fame fize with the Leffer Pecary, and has a white line along the fine from the neck to the tail; it lives in the forefts, not in large herds, but in fingle families; takes refuge when purfued in hollow trees, and in holes of the earth, and defends itfelf with great courage againft dogs. This animal frequents the marfhes, is eafily tamed when taken young, but always fhews a great antipathy to dogs; the female brings only two young ones at a birth; the flefh is reckoned excellent; and the hair is fofter than that of a Common Hog. The proper marks of diftinction between thefe three vano rieties are not afcertained.

## 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, efpecially about the fhoulders, belly, and thighs, where they are of great length; the tail reaches to the firft joint of the hind leg, is very flender, and terminates in a large tuft; the head is long fhaped, with a flender nofe, the upper jaw extending far beyond the lower; the ears are narrow, erect, pointed, and tufted with very long brifles at the end: There are only two fore-teeth in the upper, and fix in the lower jaw; the tufks are large and very hard, like ivory, thofe of the upper jaw being very thick, and having the appearance of being cut off obliquely; on each fide of each jaw there are fix grinders, the moft advanced being very large. Mr Pennant fuppofes this fpecies to be the animal mentioned by Adanfon as a Boar of enormous fize, peculiar to Africa.

## 5. Engallo.-5. Sus actbiopicus. 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. mifc. zool. 16. t. 2. Spic. zool. 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 fanglier. Flacourt, madagafc. 151.-Sanglier hideux. Damp. voy. i. 405.-Ethiopian hog. Sm. Buff. viii. 24 1. pl. ccxci. Penn. hift. of quad. n. 62.-African wild boar. Deflandes ${ }_{p}$, in Mart. mem. ac. v. 386. Lev. muf.

Inhabits Madagafcar and the hotter parts of interior Africa.-This- animal is very fierce, exceedingly fwift, and more active, livelier, and more fagacious, than the Common Hog, with which it. will not procreate; it is of confiderable fize, one, which was hardly full grown, meafuring four feet nine inches in length; it has a ftrong, yet not difagreeable odour, refembling the Lamium purpure$u m$, and compared by Vofmaer to new cheefe. The body is thick, broad, and almoft naked, having.

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a few blackifh brown briftles difpofed in little bundles; thefe are more numerous, and longer on the back, and more fo 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 deprefled muzzle, truncated obliquely inwards, fo that the noftrils are not feen unlefs it be confiderably raifed; the extremity is very broad, and almoft as hard as horn; the mouth is fmall, and inftead of fore-teeth the gums are convex, fmooth, and very hard; the under tulks are fmall, but thofe above are large and bent upwards out of the mouth; on each fide of each jaw there are fix grinders; the eyes are finall, and are placed near each other, almoft at the top of the forehead; immediately below each under eye-lid is a fingular wrinkly hollow or fac, of foft, loofe, black fkin, from the under fide of which hangs down on the cheek, a large, broad, flat lobe or wattle, rounded at the lower end; the ears are large, erected backwards, fharp pointed, and lined with long whitifh hairs; the tail is @ender, flat, covered with hairs difpofed in parcels, and reaches only to the bottom of the thighs. This fingularly hideous animal burrows under ground, and digs with furprifing expedition: It is confounded by Buffon with the preceding feecies, though remarkably different from it by the fingular feructure below the eyes, and by the want of fore-teeth.

## 6. Babyrouffa.-6. Sus Babyrufa. 5 .

Has two crooked tufks, refembling horns, which pierce through the upper part of the face. Erxleb. mam. I88. n. 5.

Aper orientalis. Brifi. quad. rio. n. 5.-' ${ }_{5}$ rereazspors. Aelian. an. xrii. c. io.-Aper indicus. Plin. hift. nat. viii. c. 52.-Aper cornutus. Calpurn. eclog. 7. v. $5^{8}$.-Babi-raefa. Seb. muf. i. 80. t. 50. f. 2.-Porcus indicus, Babyrouffa, Babyrufa, Babirouffa, Babi-roefa. Raj. quad. gб́. Klein; quad. 25. Bont. ind. 61. Jacob. muf. reg. 5. t. 2. f. 5. Lauf. muf. t. 3.f. 28. Valent. amboin. iii. 268.-Strange hogs with horns. Purch. pilg. ii. 1695. v. 566.-Horned hog. Grew, muf. 27. t. r.-Babyrouffa. Penn. hift. of quad. n. 63 . pl. xiv. f. r. Sm. Buff. vii. 58. pl. cciii.-Eberhirfch, Hirfcheber. Knorr, del. ii. t. к. 7 .

Inhabits the iflands of Java, Celebes, Buero near Amboina, and the other iflands of the Indian Ocean.-The Babyrouffa lives in herds, and feeds on herbs and leaves of trees, but never ravages the gardens and plantations like other fwine; it has a very quick fcent, and, when purfued, often takes to the water, where it fwims and dives with great dexterity; in the forefts it is faid often to reft itfelf by fufpending the weight of its head, by the crooked horn-like tufks, to the branches of trees. The head is long and narrow, with fmall, erect, fharp pointed ears, and finall eyes; there are four fore-teeth in the upper, and fix in the lower jaw, two tufks in each, and five grinders on each fide of each jaw; the lower tufks ftand near eight inches out of the mouth, pointing toward the eyes; the upper tulks are rooted downwards in fockets which open outwards on the top of the nofe, fo that they feem 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 fquare, having a few weak briftles along the back, bur the reft is covered with a fhort woolly hair, of a grey colour mixed with red and black; the legs are long and flender; the tail is long, ufually twifted, and ends in a tuft of hair. The flefh of this an:mal is reckoned very gond.


## VII. C E T E.

## Have fpiracles* on the anterior part of the fkull;

 no feet, inftead of which they have pectoral fins, deftitute of nails; and the tail is horizontally flattened.This order of Cete ought, from external fhape and habits of life, to have been arranged with the clafs of Fifhes; but the illuftrious author having adopted the ingenious idea of employing the circumfance of fuckling their young as a characteriftic mark for a number of animals, all of which have warm red blood propelled by two auricles and two ventricles, found himfelf forced to include thefe, which ought otherwife to have been named Cetaceous Fifbes. They are not hitherto well known, becaufe living only in the fea, they are difficultly made the fubject of obfervation; even thofe fpecies of Whales and Cachalots which have long been killed in vaft numbers annually, on account of the oil which they produce, are very imperfectly known to naturalifts. In general they refemble fifhes in the form of their bodies; all have pectoral fins, and a fin-like tail ; a fmall number of fpecies have a dorfal fin, but they are all deftitute both of the ventral and anal fins $\dagger$. They are found in almoft every part of the ocean, and the feas which communicate with it, though fome fpecies are more peculiarly confined to particular regions, and very few are found in the Red Sea..

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\text { XLV. N A R V A L. }-44 . \text { MO NODON. } 37 .
$$

Has two very long, ftraight, and. firally twifted teeth, which ftick out ftraight forwards from the upper jaw. The fpiracle, or breathing hole, is fituated on the anterior and upper part of the flull.
x. Horned Narval.- I. Monodon Monoceros. I.

The only feecies of this genus.
Monodon. Arted. gen. 78. fyn. 1o8. Faun fuec. 48. Muf. ad. fr. I. 52. Muller, zool. dan. 6. n. 44.-Monoceros. Charlet. exerc. pifc. 47. Willoughby, pifc. 42. app. 12. t. A. f. 2. Raj. pif. Y y 2

* The word /piracle is employed to denote a kind of pipe, or fiftulous opening, on the top of the head, communicating with the nofe, through which the various fpecies blow large quantities of water with great force, liy the power of their breath, which likewiie iffues from the fame openings, fo that shey may be confidered as noftrils not fituated on the nofe or muzzle.-T.
$t_{i}$ Thefe fins will be defcribed particularly. in the clafs of Fifhes.-T..

11．－Unicornu marinum．Muf．Worm．282．283．－Narhwal．Klein，mifc．pifc．ii．18．t．2．f．c．－ Eenhorn，Narhwal．Anderf．ifl．225．Crantz．groenl．146．Mart．fpitz．94．－Eenhorning，Narhvat， Lioorne．Egede，groenl． 56.
Inhabits the northern part of the Atlantic Ocean．－This animal is reprefented by fome authors as meafuring from twenty to twenty－two feet in length，while others fay 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 call－ ed，which are real teeth；of thefe there are always two in young animals，though the old ones have generally only one，fometimes none．In the fpecimen belonging to the Edinburgh Mufeum there is only one，which is placed rather on one fide，and no veftige of a focket for the other；but then it is a general faft that fockets become obliterated after the teeth which grew from them are deftroyed． From this circumftance of only one tooth being ufually found，the animal has acquired the name of Monodon，Unicorn Fifh，or Sea Unicorn．This extended tooth perforates the upper jaw，and is a very powerful weapon of offence；there are even many inftances of the tooth having been found in the bottoms of fhips which returned from the northern feas，probably owing to the Narval having miftaken the fhip for a Whale，and attacked it with fuch fury as not to be able to get out the wea－ pon from the wood．The head is finall，with very minute eyes；the back has no fin，and the two fins on the breaft are very fimall；the fkin is white with black fpots on the back，and has a great quantity of blubber underneath．The Narval fwims with very great velocity，and，though by ne means fearce in the feas about Greenland，is very feldom killed．

XLVI．W H A L E．－45．$B A L$ 压 $N A .38$.
Has no teeth，inftead of which the upper jaw is provided with horny laminae，called Whale－bone．The fpiracle has two openings on the top of the head．

## 1．Common Whale．－1．Balaena Myficetus．I．

The noftrils，on the fore part of the head，are much contorted，and the back has no fin． Arted．gen．76．Syn．106．Faun．fuec． 49.
a．Greenland Common Whale．－B．My hicetus groenlandica．
Of a blackifh colour on the back and white on the belly．Brif．regn．an．347．n．r．
Balaena groenlandica．Muf，ad．fr．i． $5^{1}$ ．Gron．zooph．139．－B．major，B．bipinnis Sibbaldi，et B． vulgaris edentula．Raj．pifc．16．et $\sigma$ ．－－B．vera．Klein，mifc．pifc．ii．ir．Willoughb．piic．38．35．－ B．vulgaris，Mufculus．Rondel．pifc．4＇75－B．vulgaris，Myfticetus Ariftotelis，Mufculus Plinii． Gefn．aqu．132．－B．vulgaris．Charlet．ex．pifc．46．－B．vulgi．Muf．worm．28i．Jont．pifc． 2 i6． Aldrov．pifc．688．－Balaena．Plin．hift．nat．ix．c．6．7．13．Schonev．ichth．24．Aldrov pifc．675． f．p．6－7．682．Sibb．Scot．an．23．－Фaגaぃ\％．Arift．hift．an．i．c．5．iii．c．16．Aelian．an．v．c．4．－ Musтьィто．Arift．hift．an．iii．c．10．－Hvalfifl．Egede，groenl．f．p．48．－Wallfith．Mart．fpitzb． 98．t．Q．f．a．b．－Grocnlandifche Wallfifh．Anderf．ifl．212．Crantz，groenl．i41．－Common Whale．Penn．Brit．zool．iii．n．16．Arct．zool．fup．Io1．n．51．－Whalebone Whale．Dudley， phil．tranf．abr．vii． 42 ．

Of a black colour with a whitifh glofs. Briff. regn. an. 350. n. 2.
Nord-kapper. Egede, groenl. 53. Anderf. in. 219. Crantz. groenl. $145^{\circ}$

## \%. Larger Common Whale.-1. $\gamma$.B. Myficetus major.

Has no fpiracle. Raj. pifc. i6.
Inhabits the Arctic Seas, efpecially about Greenland and Spitzbergen.-The Common Whale is of enormous bulk, meafuring 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 fhy 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 firacle, 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 fhe has the power of retracting; fle is fuppofed to go nine or ten months with young, and produces moftly one, feldom two, at a time, which fhe fuckles and takes care of with great affection. The flefh of the Whale is extremely dry and infipid, except about the tail, which is more juicy, yet ftill very taftelefs; between the fikin and flefh 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 coarfe 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 coaft by Brito, a poet of the twelfth century. The horny laminae, which are found in the upper jaw of the Whale, are likewife a valuable article of commerce, under the name of Whale-bone; thefe, from frequent ufe, ferving to catch the food of the animal, are fplit 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 longeft, meafures from eighteen to twenty feet long.

The head of the Common Whale is nearly one third part of the animal, being flattifh on the upper part, and furmounted by a tubercle or projection, in which the fpiracle, or breathing pipe, is fituated; the mouth is very large, and ftretches far backwards, almoft as far as the eyes, in form of the letter $\int$; the lower jaw, efpecially about the middle, is very broad; the tongue is very foft, being compofed almoft entirely of fat ; it is of a white colour, fpotted with black at the fides, and adheres by its under furface to the lower jaw; the eyes are placed at a great diftance from each other on the fides of the head, over the entrance to the ears, and are very little larger than thofe of an Ox ; the fkin is about an inch thick, and the fcarf $\mathbf{k}$ kin about the thicknefs of parchment; this laft is very fnooth, feldom entirely black, or variegated with black and yellow, and very rarely of a white co-
lour.

* All thefe animals, belonging to the fucceeding claffes, will be hereafter particularly deicribed in the courfe 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.

2. Fin Whale.-2. Balaena Pbyfalis. 2.

Has a double opening to the fpiracle on the middle of the fore part of the head; and.a fofi fin on the hinder part of the back. Art. gen. 77. fyn. 107. Faun. fuec. 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. 85 1.-Phyfeter. Plin. hift. nat. ix. c. 4. xxxii. c. Ir. Jonit. 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. iff. 219. Crantz. groenl. 145.-Fin Whale. Penn. arct. zool. fup. Io1. 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 coafts.-This fpecies is equally long with the Common Whale, but not above a third, or even fourth, part of the circumference, and produces vaftly lefs blubber; the opening of the mouth is larger; the horny laminae, or Whale-bone, are fhorter, and of a bluifh colour; the flefh is better tafted; and it throws the water from the fpiracles 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 refemble a twifted rope; on the lower part of the back, near the tail, there is a ftraight, foft, fharp pointed fin, between three and four feet long, without rays or bones, from which circumftance the Englifh name of the fpecies, to diftinguifh it from the Common Whale having no back-fin, is derived. From the violence with which this fpecies throws out the water from its fpiracle, it is fuppofed to be the $\Phi$ vscinos of the ancients. This fpecies feeds on fmall fifhes of the Clupea, Scomber, and other genera: It is neglected by the Whale fifhers, both on account of its great fiercenefs and the fmall quantity of blubber which it affords; even its appearance in the Whale feas is difliked, as it is fuppofed to drive away the common fpecies, which is fo much in requeft.

## 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 furnifhed with noftrils, and feveral folds of the fkin on the belly. Raj. pifc. 16.-Jubartes. Klein, mifc. pifc. ii. 13.-Jupiter fifch. Anderf. if. 220. Crantz, groenl. r46.-Pike-headed Whale. Penn. Brit. zool. iii. n. i7. Arct. zool. fup. 101, n. 52.-Scrag Whale. Dudley, phil. tranf. abr. vii. 425. Sibb. Scot. an. 23.

Inhabits both thie northern and fouthern oceans.-This fpecies is about forty-fix feet long, and twenty feet in circumference, at the thickeft part, where the breaft fins are placed. The upper parts of the body are black and very fmooth; the under parts are white, and have the fkin raifed into many longitudinal folds; the head is oblong, with a fomewhat fharp fnout; the tongue refembles that of an Ox in figure, and is near five feet long; the eyes are not larger than thofe of an Ox , and are placed near the corners of the mouth.

## 4. Humped Whale.-4. Balaena gibbofa. 5.

Has no back fin, but the back is hunched.
Hump Whale. Penn. arct. zool. fup. 102. n. 54.-Hump-back Whale. Dudley, phil. tranf. abr. vii. 425 .

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. 35 r. 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 coaft of New England, in North America.-The hump on the lower part of the back is defcribed as exceeding the fize of a man's head.

Has fix humps on the back.
Balaena, having two breaft fins, and fix hunches on the back. Briff. regn. an. 35 1. n. 4. Erxl. mam. 6ıо. n. 5.-Balaena macra. Klein, mifc. pifc. ii. 13.-Knotenfifch, Knobbelfifch. Anderf. ifl. 225. Crantz, groenl. 146.

This variety refembles the Common Whale, except in having fix large knobs or hunches along the back, and the horny fcales in its mouth are of a white colour. We have no account of any other circumfances in its defcription, manners, or food; nor of the feas which it frequents.

## 5. Broad-nofed Whale.-5. Balaena Mufculus. 4.

Has a double pipe on the fore-head, and a very broad under jaw. Art. gen. 78. fyn. 107 fp. io6.

Balaena, with three fins, a round fnout, and wrinkled belly. Raj. fyn. pifc. 17. Sibb. Scot. an.
 Aldrov. pifc. 676.

Inhabits the Scottifh feas.-This fpecies is fometimes feventy-eight feet long, and above thirty-five in circumference; the lower jaw is femicircularly turned at its extremity, and is much broader than the upper jaw, which ends in a fharp fnout; the opening of the mouth is enormous, and contains a number of laminae of black Whale-bone, but the longeft do not exceed three feet; the fpiracle or blowing pipe is of a pyramidal form, divided into two orifices by a feptum or partition, and is fituated on the fore-head; the back is black, and furnifhed with a foft raylefs fin; and the belly, which is white, has a number of folds of the flin. This Whale is very deftructive to the herring fhoals which vifit the Scottifh coaft, and which, with proper exertion, might prove an immenfe fource of wealth and induftry to Britain; perhaps it may not be improper to mention, that, from long experience, the Norwegians are fo thoroughly convinced of the benefits derived to their fifheries, by the Whales driving the fifh into the creeks and firths on their coaft, that they are protected by the law, under very fevere penalties.

## 6. Beaked Whale.-6. Balaena rofrata. 6.

Has a foft fin on the back, and the nofe is peaked.
Balaena roftrata minor. Muller, zool. dan. 7. n. 48. Chemniz, befchr. naturf. berl. iv. 183. Klein, mifc. pifc. ii. 13.-Beaked Whale, Penn. Brit. zool. iii. n. 20. Arct. zool. fup. 102. n. 55.-Bottle-nofe Whale. Catefby, app. 32.

Inhabits the Norwegian feas.-This fpecies has a confiderable refemblance to the Scrag Whale, efpecially in the form of the fnout ; but, according to Chemniz, it has no Whale-bone in the mouth, which has one tooth on each fide of the upper jaw, from which circumftances it more properly belongs to the fucceeding genus, though in that the teeth are placed in the lower jaw. It is of a very clear black colour, and about twenty-five feet long; fwims with amazing velocity, and appears to have a very acute fight; the lower jaw is confiderably thicker than the upper, and the fnout is very long and fharp.

## XLVII. CACHALOT.-46. PHYSETER. 39.

## Has teeth in the lower, and none in the upper jaw.

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. 36r. 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 fpecies differs from the Scrag Whale by wanting the horny excrefence on the back, and in having teeth in the lower jaw, but like it the fpiracle or pipe is placed on the fnout, like noftrils; it is about twenty-four feet long, and has a round fhaped head, with a fmall opening, or rictus, of the mouth.

## 2. Blunt-nofed Cachalot.-2. Pbyfeter 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. ro8.-Blunt-headed Cachalot. Penn. Brit. zool. iii. n. 21. Arct. zool. fup. 102. n. 57 .-Spermaceti Whale. Dudley, phil. tranf. abr, vii. 42 .
a. Black Blunt-nofed 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 whitifh on the belly, with the fpiracle on the neck. Briff. regn. an. $357^{\circ}$ n. I.-Cete, named Pot-Walfifh, by the Hollanders, and. Balaena major macrocephala, having teeth only in the lower jaw. Raj. pifc. ii. and 15.-Balaena. Jonft. pifc. 215 .t. 4 1. 42 . Willoughb. pifc. 4r.t. A. 1.f. 3.-Cete admirabile. Cluf. exot. 13r.Cetus dentatus. Muf. worm. 280. Charlet. ex. pifc. 4. Sibb. Scot. an. 23.-Cachelot. Klein, nife.
mifc. pife. ii. I4. Egede, groenl. 54. Anderf. ifl. 232. Crantz, groenl. 148.-Spermaceti Whale. Brown, jam. 459.

及. White Blunt-nofed Cachalot.-2. $\beta$. Pb. macrocepholus, albicans.
Of a whirifh colour, with a fmooth back.
Balaena albicans, Weifs fifch. Klein, mifc. pifc. ii. 12.-Cetus albicans. Briif. regn. an. 359. n. 2.-Cetus albus. Raj. pifc. if.-Hvid fifch, Poifon blanc. Egede, groenl. 55--Weifs fitch. Mart. Cpitzb. 94.
2. Grey Blunt: nofed Cachalot.-2. 2. Pb: macrocepbaius cinereus.

Of a blackifh afh colour, with a hump on the back.
Cetus Novae-angliae, having two fins, the pipe on the neck, and a hump on the back. Drifin, regn. an. 360 . n. 3.-Balaena Dudleji. Klein, mifc. pifc. ii. 15.

The black variety of this feecies is found in the European feas, the White in Davifes Straits, and the Grey on the coafts 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 fmaller than the upper, has forty-fix teeth', in two rows, which rife between two and three inches above the gums, and are received into an equal number of hollows, or fockets, in the upper jaw, when the mouth is fhut; the female teats are retractile. The fubfance improperly named fpermacti is procared from this animal, being contained in particular cavities of the bones of the head, which are covered with the common integuments or fkin ; and from this variety, or another of the fame fpecies, the finer Whale oil, called Jpermaceti oil, or wwite oil, is extracted; hence it is found in the fonthern feas along the coalts of Brafil, Patagonia, and in the Pacific Ocean, in which places a very extenfive fifiery is now carried on from Britain. According to Dr Sehwediauer, Phil. Tranf. 1783 , P. i. n. 1 j. the perfume called ambergreife is the hardened faeces, or fcybala, ejected from this animal when fick, large quantities having been found in its intentines. The fame gentieman informs us, that it feeds chiefly on the Eight-legged Cuttle-filh, or Sepia oftopodia.

The white variety refembles the Common Whaie, but has the head of a flarper form; it is about fifteen or fixteen feet long, and of a yellowif white colour: The teeth are compreffed, fomewhat crooked inwards, and rounded at the ends.

The grey variety grows to fixty, and even feventy, feet long, by thirty or forty in circumfernnce; has a very large head, with very fmall eyes; the lower jaw is much narrower than the upper, and is furnifhed with a confiderable number of tecth, which are received into fockets of the upper jaw when the mouth is fhut. This variety agrees with the firt in having a hump on the back, whick. rifes about a foot above the general furface.
3. Sharp nofed Cachalot.-3. Pbyeier 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-nofed Cachalot.-3. a. Pb. micr. falcidentntus. The teeth are fharp, and confiderably bent:
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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. I 5. Sibb. Scot. an. 24. Kilein, pifc. ii. I5.-Dritte Cachelote. Anderf. in. 248.

## B. Straight-toothed Sharp-nofed Cachalot.-3. $\beta$. Ph. micr. rectidentatus.

 The teeth are fharp and Araight.Cetus, having three fias, with fharp fraight teeth. Briff. regn. an. 362. n. 9.-Zweyte Cachelotte. Anderf. in. $2 \nmid 6$.

Inhabits the northern Ocean.-The head of this fpecies is enormoully large, with very finall eyes; the lower jaw is armed with a number of teeth, which, when the mouth is fhut, are received into an equal number of fockets in the upper jaw; the flkin is very fmooth.

The former variety is of a blackifh brown colour, and grows to feventy feet long; it has fortytwo round teeth, which are a little compreffed fideways, 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 fnout; the back fin is longiih and tharp pointed, fo as to have the appearance of a fpine. This animal fometimes chafes the Seals with fuch eagernefs as to run itfelf on fhore.

The latter variety is of a blackifh colour on the back, and whitifh on the belly, having a very high hump on the upper part of the back, and the back fin is placed very near the tail; the head is almof half the length of the body, having very bright yellowifh eyes; the tongue is fmall and flarp pointed; the teeth are thick, fraight, and fharp at the points, and fet in the jaw like the teeth of a faw. This animal fometimes grows to eighty, or even an hundred, feet long.

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\text { 4. High finned Cachalot. - 4. Pbyeter Turio. } 4 .
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Ilas a very long fin on the back, and the ends of the teeth are flat. Art. gen. 74. fyn. 104.

Cetus, having three fins, and the tecth flat at the ends. Brif. regn. an. $36+$. n. 7.-Balaena macrocephah, with three fins, and having teath in the lower jaw, which are very little bent, and end in flat furfaces. Raj. pifc. 16, Sibl. Scot. an 24. Klein, mifc. pifc. ii. $1_{5}$

Inhabits the northeras ocean.-This fpecies fometimes grows to an hundred feet long; the back fin is very long, fhapp pointed, and cref, fo as to refemble the matt of a fhip in fome meafure; the Ulowing pipe is placed on the fore-heal; the teeth are flightly bent, and have their ends flattened: In other wipees tíis arimal has conflemble refemblance to the preceding fecies.
XLVHI. DOIPHIN.-47. DELPHINUS.40.

Has teeth in both jaws. The pipe is placed on the anterior and upper part of the head.

The body is of a fomewhat conical form, with a broad back, and bluntif frout.


Delphinus phocaena. Briff. regn. an. 37 r. n. 2. Bloch, fifch. deutfchl. ii. 119. t. 92.-Turfio. Plin. hift. nat. ix. c. 9. Bellon, aqu. 15. Rondel. pifc. 474. Schonev. ichth. 77. Klcin, mifc. pifc. ii. 26.t. 2. A. B. 3. B.-Фохжı», Turfio, Marfouin. Bellon, aqu. ı6.-Phocaena. Roadel. pif. 473. Gefn. aq. 837. Aldrov. pifc. 719. f. p. 720. Jonft. pifc. 221. t. 41. Charlct. ex. pifc. 48. Sibb. Scot. an. 23. Willoughby, pifc, 31. t. A. I. f. 2. Raj. pifc. 13. Rzacz. pol. auf. 245. Ǩlein, mifc. pifc. i. 24.-Meerfchwein, Tunin. Mart. fpitzb. 92. Anderf. if1. 253. Crantz, groenl. Ij i.Nifer, Marfouin. Egede, groenl. 60.-Delphin, Nifen. Gunner. act. nidrof. ii. 237. t. 7.-12orpefie. Penn. Brit. zool. iii. 25. Arct. zool. app. 102. n. 60.

Inhabits the European ocean and the Baltic.-The Porpoife is of a bluifh black colour on the back, and white on the belly; the fnout is bluntifin ; the eyes are very fmall, and the entrance to the auditory canal is placed very near them; between the eyes the femilunar orifice of the fipiracle, or blowing pipe, is fituated, with its horns fanding forwards; each jaw contains forty-fix fimall fharp pointed teeth; the penis iffues from a narrow longitudinal opening near the navel, and direitly under the fituation of the back fin; and the anus is placed between that and the tail, which is fomewhat divided into two lobes. The whole length of the animal varies from five to cight fcet. This anmal fwarms in great numbers in fome parts of the narrow feas, fwimming in herls, fometimes in regular lines, very flowly, and tumbling in the water, at other times darting with vaft velocity in an irregular manner: It feeds on fifh and fometimes on feals.

## B. White Porpoife.-D. Pbocaena albus.

## Of a white colour.

Moine de mer. Bomare, dict. d'hif. nat. voce Palein.
Inhabits the river St. Lawrence.-This variety has a loofe plait of the fkin behind the heal, which the French in Canada fuppofe to have fome refemblance to a monk's cowl.

Of a brown colour.
Pourfille. Bomare, dict. đlhift. nat. v. Balein.
Inhabits the river St. Lawrence.
2. True Dolphin.-2. De!?binus Delpbis. 2.

The body is oblong and roundif, and the fnout narrow and fiarp pointed. Art. gen. 76. fyn. 105 . Briff. regn. an. 369 . n. 1 .
$\Delta \varepsilon \lambda p$ cs. Arift. hift. an. i. c. 5. ii. c. 9. iii. c. ₹. 7 . 16. iv. c. 9. ı. 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. ó. 45.-Delphinus. Pin. hift. nat. ix. c. 7. 8 . xi. c. 37 . Bellon. aq. 7. f. p. 9. 10. Rondel. pif. 459 . Gefn. aq. 380 f. p. 3 SI. Aldrov. píc. 701. 703. 704. Jonft. pifc. 218. t. 43. Muf. worm. 288. Charlet. cx. pifc. 47. Willoughb. pifc. 28. t. A. I. f. i. Raj. pifc. 12. Rzacz. pol. auct. 238. Klein, mifc. pifc. ii. 24. t. 3. f. A.-Porcus. marinus. Sibb. Scot. an. 23.-Delphin. Anderf. ill. 254. Crantz. grcenl. 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 fmaller than the Grampus, mea -
furing nine or ten feet in length by two in diameter; the finout is long, and fomewhat fharp, with a broad tranfverfe band, or projection of the $1 k$ in, on its upper part; the opening of the mouth is very extenfive, reaching almoft to the thorax, and contains forty, teeth, twenty-one above and nineteen below, which are above an inch long, conical at their upper eads, fharp pointed, a little bentinwards, and placed at fome diftance from each other, fo that, when the mouth is flut, they lock into each other. The Dolphin fwims with great velocity, and preys on fifh; it is fometimes feen adhering to Whales, when they leap out of the water ; .it is naturally ftraight, and only affumes the crooked form, given by painters, when leaping.
3. Grampús.-3. Delphinus Orca. 3.

The ncfe is flat and turned upwards; the teeth are broad and ferrated. Mantif. mam. ii. 523. Faun. fuec. 52. Art. gen. 76. fyn. 1o6. Gun. aç. nidrof. iv. i io.

Delphinus Orca, having blunt teeth, and one fin on the back. Briff. regn. an. 373. n. 4.-Baw laena minor, having teeth in both jaws. Sibb. Scot. an. 24. Raj. pifc. 15.-Orca. Plin. hift. nat. ix. c. 6. xxxii. c. ir. Belon. aq. 1 б. f. p. 18. Rondel. pifc. 483 . Gefn. aq. 748. . Schonev. ichth. 53 . Aldrov. pifc. 6.97. f. p. 698. Jonft. pifc. 217. Chariet. exerc. pifc. 47. Willoughb. pifc. 40. Raj.pifc. İo. Kiein, mifc. pifc. ii. 22. t. I. f. I. Steller, Camtfchatc. 104.-Wagnhyalur, Hualhund. Muf. worm. 279.-Buts-kopf. Mart. fpitzb. 93. Anderf. inl. 252. Crantz. groenl. 1.5 I.-Buts-kopper. Egede, groenl. 56.-Grampus. Penn. Brit. zool. iii. n. 26. Arct. zool. app. p. 102.Killer. Catefloy, app. 32. Dudley, in phil. tranf. abr. vii. 42 .

The nofe feems truncated; the teeth are fharp pointed; on the back is a very long, -fword-like, fpine, or bony fin. Briff. regn. an. 372. n. 3. Mull. zool. dan. 8. n. 57.

Schwerdt fifch. Anderf. if. 255 . Crantz. groenl. 152. Mart. fpitzb. 94--Sword fifl. Catefby, app. 32.-High-finned Cachalot. Pemn. Brit. zool. iii. n. 23. Arct. zool. app. p. 102.
Inhabits the European feas, the Atlantic, towards the Antaretic Pole, and Davifes Straits.-This is the largeft fpecies of the genus, being twenty-four or twenty-five feet long, and from ten to thirteen feet in diameter, where thickeft; 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 fuch diftances as to receive each other into the intervals, when the jaws are fhut ; the nofe is turned upwards; the eyes are ve:y fmall; the fpout-hole is on the top of the head, and has two orifices. The fpine, or beny fin, on the back of the Sword Grampus, is often fix feet long; it is broader at the bafe, and refembles a fcymeter or bent fword, being, however, covered with the common fkin of the back.
The Grampus is a bitter enemy to the Whales; great flocks of them attack the largeft Whales, which they faften round like fo many Buil-dogs, making them roar with pain, and often kill and devour them. 'The Grampus likewife carries on a conftant war againit the Seals, which it pufhes off from the rockes into the fua by means of its long back fin. They likewife feed on fill of the Flounder genus.

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\text { 4. Beluga.-4. Delphinus leucas. } 4
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Has a blunt conical fnout fomewhat turned downwards; and no back fin, Pall. It. iii. 84. t. 4. Brif. regn, an. 374. n. 5.

Beluga. Penn. fyn. of quad. 357. Aret. zool. i. :82. D’. app. p. 103.-Bicluga. Stell. Cantfch. 106.-Witt fifch, Weifs fifch. Anderf. ifl. 25 I. Crantz, groenl. 150.

Inhabits the feas near the Arctic Pole, and the river St. Lawrence.-This fpecies forms a commection between the Cetaceous fifhes and quadrupeds, through the genus of Walrus or Trichechus, having the gencral fifh form and fpout-hole of the former, while the pectoral fins have each the rudiments of five toes, the bones of which may be felt through the fkin, and form five fenfible projections outwardly. The Beluga lives moftly in families of five to ten together, in the gulphs or firths, at the mouths of large rivers, efpecially 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 ftrong kind of kather, faid to be mufket proof, is manufactured. The flin is very fmooth, flippery, and of a beautiful white colour; but, when young, it is dufky, and even blackifl. The whole animal never exceeds eighteen feet long, is thicker in the middle, and grows narrower towards both ends. The head is fimall, 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 fhort bluntifh teeth. The tail is cartilaginous, and is divided into two lobes; by bending this under its belly, like the tail of a lobfer, it gives fuch frings, while fwimming, as to go through the water almoft 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 sinches long, and nearly the fame in diameter, having neither cartilage nor bone in its fubftance like athofe of the other fpecies of the order.

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THE

## ANIMALKINGDOM.

## C $\begin{array}{lllll}\text { L } & \text { A } & \text { S } & \text { S }\end{array}$ <br> B I R D

VoL. I.
Ece

## C L A S S II.

## B I R D S.

The unhorn mountains, the barren rocks, and lowly forubs, all raife their joyous fongs is.
beaven.-VIrgil.

BIRDS are animals which; for the moft part, are capable of moving through the air, by the well known action which is called fying; their bodies are covered with feathers, which lap over each other like tiles; they have two wings, which are likewife covered with feathers, and are adapted, in general, for the purpofes 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 clafs; they are clothed with quills and feathers, inftead of hair; and are deftitute of external ears, lips, fcrotum, teeth, uterus, bladder, epiglottis, fornix, corpus caliofum, and diaphragm. The feathers, pennae, are difpofed in alternate rows, thofe of one row being oppofite 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, fhort foft woolly downs, plunaa, are interpofed: 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 thefe vanes are fofter and lefs connected together to. wards the bafe or flaft, and thefe, towards the outer end of the feathers, are firmer, more elaftic, and more clofely conneded together; the fhaft of each confits of a cylin. drical 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 firetch
out on each fide in parallel rows clofe to each other; and thefe are double in water fowls which have pinnated feet.

The feathers of birds are gaily ornamented with coloure, which are varied by diffe. rence of age, fex, feafon of the year, and climate; but on the quill-feathers of the wings, remiges, and of the tail, rectrices, thefe colours are more conftant, and deferve an attentive confideration from the ornithologift, as being frequently the only difinctive marks of fpecies *. A naked ftripe of the fkin runs down on each fide of the neck, from the head, pointing towards the fpace, interfcapulium, between the fhoulders of the wings; and another fimilarly naked fpace on each fide from what are called the Armpits, axillae, under the wings, along the fides of the breaft, backwards almoft to the groins and thighs.

All birds are oviparous, or produce eggs, which contain the rudiments of their young; the number of thefe is various in the different kinds, but they are always covered with a calcareous cruft, or hell, and, after exclufion from the mother, they are, almoft univerfally, depofited in artificially conftructed nefts, in which, by what is term. ed incubation, the parents fit on them, to keep them warm, till they are hatched.

The windpipe, trachea, is compofed of cartilaginous rings, and is furnifhed with a great number of mufcles; and in many birds the branches, or brancbiae, of the windpipe are likewife furrounded with cartilaginous rings.

Through the whole body a number of air cells are interfperfed, even in the bones; thefe cells are connected with the lungs, and may be filled or emptied at pleafure; they are of fingular ufe for flight, by rendering their bodies lighter, in proportion to their bulk, and they affilt in prolonging their fongs: Thefe cells are fituated in the cellular membrane of the belly, under the wings, and in other places; and, except in the order of Anferes, and the genera of Coots and Snipes, they are chiefly diftributed in the cavities of the bones, which are void of marrow; fuch as the bones of the thighs and wings, the breaft-bone, ribs, rump-bones, fhoulder blades, collar-bones, back-bone, and even fometimes in the bones of the $\mathfrak{f k u l l}$ and the lower jaw.

A bird, for the purpofes of defcription, is difinguifhed into the Head, the Body, and the Limbs. The covering of the top of the head is called the pileus, or Cap, which is difinguifhed into the Front, frons, the Crown, vertex, and the Hind-head, occiput:

That part of the front which borders the bafe of the bill is called the Frontlet, capijtrusn; through this a naked line on each fide runs from the bill to the eyes, which is called the Strap, lorum; the fpaces immediately furrounding the eyes are named the Orbits, orbitae, immediately over which the Eye-brows, fupercilia, are fituated; the fpaces from behind the eyes, to the auditory paffages, on each fide, are called the Temples, tempora; and the fpaces below the eyes, towards the throat, are named the Cheeks, senal.

The Bill, rofrum, is a hard horny fubftance, anfwering 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, compreffum; Flattened horizontally, deprefum; Conical, conicum; Slen• der, fubulaturn; Cylindrical, cylindricun; Angular, ansulatum; Sharp edged, cultratum; Taulted, fornicatum; or Hooked, uncinatum. The Mandibles are naked, and have no teeth; fome are Notched, emarginatum, near the point; a few are Jagged, ferratun; Toothed, denticulatun, that is, having proceffes refembling teeth; Pectinated, peclinatum, or furrowed acrofs on their inner furfaces. In general, the noftrils are fituated in the bill, fometimes in the middle of the upper mandible, or near the point, or near the bafe, or at the bafe, or even behind the bafe, and are fometimes wanting externally; they are moflly naked, but are fometimes covered with reflefted brifles, or are hid in feathers; their figure is Round, rotundae; Oval, ovatae; Oblong, oblongae; Linear, lineares; Vaulted, fornicatae; or Tubular, tubulofae. The bafe of the upper mandible is, in fome birds, covered with a naked fkin, 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, vibrifae.

The tongue is either Flefhy, carnofa; Cartilaginous, cartilaginofa; Notched, ennarginata; Torn, lacera; Feeathered, 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 nictitcns, below them; this is a kind of half tranfparent membrane, with which the eyes can be covered to keep off a ftrong glare of light without fhutting the eyelids: The chryftalline lens is extrenely moveable, being contained by fmall, black, conical, plaited fupports: Inftead of Eyebrows, fome birds have a naked coloured line over each eye, and this, in a few fpecies, is Warty, carunculata.

The orifices of the auditory canal are deftitute of external ears; in Owls they are covered with valves of $\mathfrak{i k i n}$, and over thefe is a kind of external ear compofed of long feathers.

A kind of beard, of hair or brifles, is found in fome birds; in fome it refembles moveable whifkers, and is fituated on the lower mandible, as in the Motmot, Momota, and Penduline Titmous, Parus pendulinus; in others it confifts of briftes, vibriffae which fringe the margin of the mandibles at the bafe, as in the Goat-fucker, Caprimulgus; while in the Common Turkey, Meleagris gallopavo, it is fituated on the breaft. The bafe of the bill is clothed with a reverfed Head-ftall or Frontlet, Capiftrum, the hairs of which ftand backwards in Crows, Pies, and Owls.

The Creft, crijta, is a raifed tuft of feathers which ornaments the Cap, pileus; and it is either fituated on the liront, frontalis, on the Crown, verticalis, or on the Hind-head, occipitalis; in direction, it is Erect, erecta, Reflected, rcflexa, or Shed, deflexa; in form, it is either Flattened laterally, compreffa, or in bundles, fafciculata; and in its ftructure, it is either Scattered, fparfa, or Folding, plicatilis, being compofed of feathers alternate* ly lying different ways.

Naked Warts, carunculae, of a foft flefhy confiftence, form ornaments, or appendaa ges, to the head and neck, in feveral birds; thefe 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, nucba; the reft of its hind part is named the Scrag, Cervix; immediately below the jaws, on the fore part, it is named the Chin, gulla, and the reft of the fore part is called the Throat, jugulun.

The Trunk of the body is thaped like an egg, having the thickeft end foremoft; its upper part, from the neck to the rump, is the Back, dorfum, of which that part which lies between the wings may be named the Saddle, interfcapuliun; the Shoulders, bumeri, are the firft part of the wings which project forwards; the lower part of the body forwards is the Breaft, peitus, having the Collar-bones, claviculae, joined together in a forked form; the Arm-pits, axillae, are the fides of the breatt direetly below the fhou!ders of the winge ; the Flanks, bypochondria, are the pofterior frues of the breaft, and the fides of the belly; the Belly, abdomen, is the foft under part of the body from the end of the Prean-bone, fternum, to the Vent, anus; the Ventct, criffun, is the under fide of the Rump, uropygium, from the Vent to the Tail.

The extremities, in birds, are the Wings, alac, the Legs, podes, and the Rump, uropygium, with the Tail, cauda. The Wings are flat, broad, extended, and compofed of feveral divifions, which are articulated together by moveable joints, and are provided with ftrong mufcles, for the purpofes of flight: Their fore parts are clothed with feathers, called the Coverts, tectrices, which are diftinguifhed into three orders; the Leffer coverts, tectrices minores, are placed on the upper and fore parts, immediately over the bones of the wings; the Greater coverts, tecirices majores, immediately below the former, extend downwards, covering the origin of the Quill-feathers, remiges, and are themfelves covered at their origin by the Leffer coverts; the Under coverts, rifing 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 pofterior 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 clafs are enabled to bear themfelves through the air, in the action named fying. The Quill-feathers are ufually diftinguifhed into three orders; the Primaries, primorcs, are the outermoft, and are, for the moft 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 longifh feathers which arife from the root of the wings, bracbiis, near the junction with the body, and lie along the fides of the back, and over the bafe of the wings, when fhut, connecting thefe together, but may be eafily feparated, and diftinguifhed from the others. The Shield, fpcculum, is a fhining coloured fpot, a quadrilateral figure in general, moftly fituated on the furface of the Coverts, teftrico, and fometimes, though rarely, on the Quill-feathers, remiges, of the wings; this is "ू-nerally vifible, particularly in Ducks, even when the wings are clofed. The Baftard, or Spurious, wing, alula notba $\int$. $\int p u r i a$, is a kind of appendage to the true or principal wing, placed near its outer extremity, at the bafe of the primary quill-feathers, and confifts of from three to five fmall feathers of the quill kind. In a fmall number of fpecies, which do not fly, as the Albatrofs, Penguin, Ofrich, and Dodo, the Quillfeathers are entirely wanting.

The wing is compofed of many bones, which may be compared, in fome meafure, to thofe of the human arm and hand: $\alpha$. A lengthened arm bone, bruchiun; f. Two lengthened bones of the fore arm, cubiti; \% Two fnort bones of the wrif, carpi; $\delta$. Two moderately long bones of the back: of the hand, metacarpi, connected together; z. Two fingers, digites, of which the larger has two articulations, and is comprefed, while the other is very fmall; 弓. A thumb bone, pollex, of a very fmall fize, which aifies from the
fore part of the bafe of the metacarpal bones; this laft, in a few rare inftances, ends in a fpine, $\int$ pina, as in the Oftrich, Screamer, fome 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 flefhy, and generally covered with feathers, except thofe of Bufo tards, Oftriches, and the order of Waders, Grallae, which are naked on the lower half; thofe of web-footed water fowls are likewife fomewhat naked towards the knees, but in a lefs degree. In moft birds the thighs are fo placed as to fupport the weight of the body in exact equilibrium, except in web-footed water fowls, on which, for the convenience of fwimming, they are placed much backwards, behind the center of gravity, which caufes thefe birds to walk in a conftrained 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 ornithologifts 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, ttbiae, are thin, lean, and tendinous; generally naked, being feldom clothed with down or feathers, and are fometimes covered with fcales; in a few fpecies the back parts of the legs are arneed with flarp horny fpurs, calcaria, efpecially in males.

The Toes, digiti, vary in number, difpofition, and fome other circumftances, from which the feet get feveral appellations, of confiderable ufe in diftinguifhing the orders and genera of birds. In general, they may be diftinguifhed into fuch as have four toes, ttradaciyli, in which, for the moft part, three of the toes ftand forwards, and one backwards; and into three toed feet, tridaciyli, which want the hind toe : The four-toed feet are fubdivided into feveral kinds according to the difpofition 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 ornithologitts have ufually called them Pedes ambulatorii, or Walking feet; in fome the toes are connected, two together, but without any interpofed membrane, as in the King-fifher and others, in which cafe they are termed Walking feet, grefforii; when two of the toes are turned forwards, and two backwards, they are called Climbing feet, fanforii, as in Parrots, Woodpeckers, and other birds which climb much; Parrots have the power of occafionally turning one of thefe back toes forwards; and Owls, whofe feet are of the perching kind, can at pleafure render them climbers by turning back one of the fore toes: ln fome birds, as in the White-backed Coly, the Swift, and fome others, all the four toes ftand forwards, when
when they are called Clinging feet, prebenfles. When the feet have only three toes, all turned forwards, without any back toe, they are called Running feet, curforii. On. ly one known fpecies, the Oftrich, has tut two toes, both of which fiand forwards: A fmall number of birds have three toes, of which two ftand forwards and one backwards; this is a kind of anomalous foot of the Perching divifion, and is named Tridactylous, tridactyli. In water birds, for the purpofes of fwimming, the toes have a membranous expanfion at the fides, which is varioully difpofed, and gives occafion to feveral divifions, which are ufeful in fyftem: In moff fwimmers, as in the Duck tribe, the toes are completely connected by an interpofed membrane, when they are faid to be Web-footed, palnati : Sometimes this membrane only connects the bafes of the toes together, in which cafe the feet are termed Half-webbed, femipalmati: In others the toes are only edged with the membrane, without being conneated together, when they are called Lobe-footed, Lobati: And lafly, in forne the membrane only edges the toes at the joints, forming a kind of lobes, when they are called Fin-footed, pinnati.

The Claws, ungues, are mofly Sharp pointed, acuti; fometimes Hooked, uncinati; fome are Blunt, obtufi; others are Flattened, having projecting edges, marginati; a few are Toothed at the edges, ferrati; and a fmall number of birds have flo claws, mutici.

The Tail, cauda, is compofed of feathers, rectrices, of the pen or quill kind, which :arife from the edges of the Rump, uropygium, and are covered at their bafes by Tail coverts, tectrices, both on the upper and under fide of the rump; on the back, or upper furface, of the rump there are two glands which fecrete an oily fluid, with which the birds anoint their feathers. The tail is faid to be Short, brachyura, when it is fhorter than the legs; and Long, macroura, when it exceeds thefe in length; it is called Even, integra, when the tail feathers are all of an equal length; Wedge-like, cuncata, when thefe are longeft in the middle, and grow regularly fhorter towards each fide; Forked, forficata, when the middle tail feathers are the fhorteft, and thofe at the fides longer ; and Rounded, arcuata, when the length increafes towards the middle fo as to form a regular fegment of a circle.

In general, the tail confifts of twelve pens or quill feathers, rectrices, which are thus diftinguifhed;

1. 2. 3. 4. 5. 6. -6. 5. 4. 3. 2. 1.
that is, the two outer quills are named the firft, on the right and left fides, and fo on of the reft; in fome there are more of thefe feathers, as far as eighteen; and in others fewer, in which laft cafe there are ufually ten.

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Fff
Befides

Befides thefe enumerated particulars, there are a few circumftances which deferve notice, but are not common to the whole clafs. Spines, fpinae, are a kind of offenfivehorny weapons, peculiar to fome birds, with which they can fight their enemies; thefe are fometimes fituated on the fore part of the wing, in the place of the thumb of handed quadrupeds, as in the Oftrich, Jacana, Screamer, Spur-winged Plover, and fome fpecies of Ducks; at other times they are placed on the heels, when they are called Spurs, calcaria, as in the Peacock, Pheafant, and Grous; in fome fpecies, as in the Screamers, and Horned Turky, the fpine is fituated on the head, and is then named a Horn, cornu. Wattles, palearia, are flefhy membranes which hang down from thelower mandibles of the bills, as in the Wattle-bird, and Common Cock; and in the latter animal, a Creft or Comb, crifta, of a finilar flefhy fubflance, rifes from the crown of the bead. In the lbis and Pelican, a Sac, fucculu, compofed of a thin, tough, naked, and diftenfible membrane, hangs down from the lower mandibles, under the chin.

Moft birds are monogamous, or live in pairs of one male and one female during thebreeding feafon; in fring thefe choofe their mates, after which they exert their joint induftry in confructing their nefts, and keep confantly together until the cares of incubation, and of rearing their young, are completed: Moft of the Gallinaceous. order, and of the Duck tribe, are polygamous, at leaf in the domefticated flate; the males of thefe neglect their young, and in fome cafes would even deftroy them if not: carefully concealed by the females.

The nefts of birds, which may be confidered as ferving the purpofes of an uterus, are conftructed with great care and wonderful artifice, though fome have no neft, or hardly any; fome of them are rudely confructed of ficks, but mof are lined with foft materials; fome are built on high inacceffible fummits of rocks and mountains; others in caverns, Thelves of the rocks, or burrows under ground; fome on trees, in flrubs or bufhes, or in the hullows of trees; fome in ruined walls; fome in bufhes. and hedges; fome among long grafs, or even on the bare ground. Of thefe nefts fome. are built of clay, curioufly knead and plaftered, as thofe of Swallows; fome are built with great ingenuity, fo as to hang from the ends of the flender branchés of trees; fome are conftructed to float on the furface of the water; fome have very artful paffages contrived to them; and fome have many feparate chambers communicating: with each other.

The eggs of birds are very various in their numbers and appearance, though each fpecies has an appropriate fhape and colour, and generally keep to a fixed number, or
nearly fo. 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, fome birds, as the Tropic-bird, only inhabit within the Tropics; fome only within the Polar Circle, as the Fulmar Petrel; fome in particular countries, as the Cape Petrel at the Cape of Good Hope; the Bird-of-paradife, and Peacocks, in India; the Ofrich in Africa; the Screamer, and Trumpeter, in America. Thofe without quills, imponnes, and with fettered legs, compedes, and the Petrel genus, inhaiit the ocean; the Divers are found mofly in lakes; the Merganfer in rivers; the Water Ouzel about cataracts; Plovers near the fea fhore; Snipes in marthes; the Buftard in champaign fields; the Shrike in the woods; Pafferine birds among trees, bufhes, 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 continuê in the fame countries; great numbers perform regular migrations at particular fealons, quiting one part of the country for fome other where their food is more plentiful, and returning again at another feafon to their original habitations; thus many birds which live in the northern frigid regions during the fummer, migrate fouthwards before winter in queft of provifions, and return north again in fpring or fummer. This is done by moft of the foft billed birds, tenuiroftres, and Pafferine birds, pafferes, on account of the fcarcity of infects, their ordinary food, in the cold feafon of theie northern countries; the Grallae, or Waders, are forced to the fame annual change of place, becaule the frof prevents them from fearching for worms and amphibious animals in the mud; the Anferine birds, anferes, are in winter obliged to fly fouthwards, as the water being frozen hinders them from catching fifh, \&cc. The long and warmer days of fummer, which again bring with them plenty of food, recal thefe birds to their northern habitations on purpofe to breed. A fmall number of birds, inftead of migrating for food during winter, become torpid, and continue all the cold feafon in a fate almoft refembling death, during which they ceafe to feed, or to digeft, and hardly breath, if at all ; this fate is called Hybernation, bybernatio.

The food of birds is various in the different kinds: Some are carnivorous; the Falcon tribe and Crows preys on quadrupeds, birds, and carcaffes of all kinds; the Anferine tribe lives on fifhes ; the Humming birds, and fof-billed Pafferine birds, live chiefly on infects; the Raven on the larvae of infects, and on fnails; the Cuckow on Lepidopterous infects ; the Ani, Beefeater, Water Ouzel, and Swallows, on various kinds of infects; the Oyfer-catcher on Conchs or fhell fifh; the Jabiru on Crabs, \&c. Some
live on vegetable food, phytiphagae ; the Anferine tribe, befides fifh, lives on various: plants; the Parrots feed on fruit, \&c.

The flight of birds is very various; moft of the Falcon genus glide gently through the air, hardly moving their wings; moft of the Pies fly quick, frequently flapping, or repeating the motion, of their wings; the Paradifebird floats on the air; Woodpeckers fly by jerks, alternately finking and rifing in their progrefs; the Gallinaceous tribe fly ftrong and quickly, but foon come to the ground, owing to the fize and weight of their bodies; Pigeons fly with vaft fwiftnefs; the Pafferine tribe moftly fly by a quick repetition of ftrokes, and, except in migrating, feldom far at a time; the Swallow flies with vaft velocity, continues long on the wing, and makes numerous and fudden evolutions, fkimming through the air in queft of flies; many of the greater Waders have a flow and flagging flight, but the leffer fly fwiftly, with their legs extended, for the moft 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, becaufe 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 mir grations, fly in regular order, either in ftraight lines, or angular figures with the angle foremoft, to affilt in cutting the air, and the foremoft bird drops behind when tired. Penguins, one fpecies of Auk, the Dodo, Oftrich, Touyou, and Caffowary, are denied the ufe of flight altogether, their wings only ferving in moft to affift in running, in others to clamber up the fhore when they land from the water, and to help them in. fwimming and diving.

The ufes of birds in the economy of nature, and for the purpofes of mankind, arevarious. The Falcon tribe deftroy carcaffes, which would otherwife become noifone; the order of Pies, picae, devcur noxious fubftances and worms; the Anferine tribe, anferes, leffen the too numerous inhabitants of the water; the Waders, grallae, feek for infects and worms from bogs and marfhes; the Gallinaceous tribe, gallinae, pick up fcaitered feeds on the ground; the Pafferine tribe, paffercs, feed on the feeds of flrubs and plants, and frequently carry thefe feeds, and the ova, or fpawn, of fifhes and in-fects to places where they were not originally found, and thus help to diffeminate ufeful productions.

Birds are caught or killed, by means of bows and fire-arms; by falcons, and other rapacious birds trained for the purpofe; and by nets, gins, traps, pitfals, and various contrivances.

Falcons are bred up for hawking; the Faithful Jacana even herds other domeftic fowls; Pelicans are taught to catch finh for their mafters; the Pafferine tribes are kept on account of their mufical talents; Parrots and others are taught to fpeak; Cocks and Quails are trained to fight with each other for the fport of mankind ; the Gallinaceous, Collumbine, and Anferine tribes, are domefticated.

Birds are preferved alive, and kept in aviaries, cages, or other places, for various purpofes; fome for the value of their feathers and quills; fome for their flefh; ochers for their eggs; fome on account of their mufical talents; and others merely for their beauty.

A complete hiftory of birds ought to contain a full defcription of each, their abode, their flight, their migration, their nuptials, their nefts, their eggs, their hatching, the education of their young, and their food.

The generic characters of birds fhould be taken from the Bill, Tongue, Noftrils, Cere, Wattles, Warts, and other parts which have no feathers.

Ornithological authors may be divided into the earlier and latter writers. Of the former, Bellon, or Bellonius, who flourifhed in 1557, and Gefner in 1555, may be confidered as the fathers of the fcience; Aldrovandus, in 1599, collected from their works, and made confiderable additions; in 1648, Marcgrave added the newly difco. vered birds of Brafil ; Mr Ray, in conjunction with his dicciple Willoughby, formed his fyftem in 1667, and publifhed it in 1678 ; and Marfigli publifhed feveral figures of birds in 1726 .

Among the moderns, feveral authors have thrown great light on the fubject by meansof coloured figures, refembling the life: Albinus publifhed tables of the European birds in 1731; Bernini publifhed, in $177^{2}$, and from that to 1782 , the birds found in the fouth of Europe; Cetti, in $\mathbf{1 7 7 6}^{6}$, thele of Sardinia; Frifchius, in 1734, thofe of Germany; Nozemann and Seppi, thofe of the Low Countries, from 1770 to $177^{8}$; fome Swedifh birds were edited by Tengmalm; the Prufian by Bockius; the Britifh birds, in 1775, by Hayes; thefe and the birds of India, by Pennanr, between 1768 and 1777; one hundred new and rare birds were publifhed by Catelby in 1731; upwards of three hundred were publifhed, in a very beautiful manner, by Edwards, in 1745 ; above nine hundred by Daubenton, from 1775 downwards; fome by Jacquin in 1784; by Merem, from 1.784 to 1786; thofe of the Carlfonian mufeum, with defcriptions by Sparrmann,
in 1786. The eggs of a great number of birds are defcribed by Gunther, and engraved by Wirfingius, in a publication of the year 1703. The anatomy and phyfiology of birds have been greatly illuftrated by Reaumeur, Hewfon, Camper, Hunter, Blu= menbach, Merrem, Bloch, Vicq d’Azyr, Pallas, Guldenfaedt, Silberfchlag, and Malaw carne.

In the Fauna Suecica, publifhed in 1746, I * firf attempted a regular fytem of ornithology, which was farther perfected in the edition 1758 of the Syftema Naturae. In 1760, Briffon publifhed his fyftem, in which he was affifted by all the ingenuity, and by the mufeum, of the great Reaumeur. Since that time Pennant, in 1781 , and Latham firft in 1785 , and afterwards in 1790 , have publifhed fyftems of ornithology, with the addition of all the latter difcoveries.

Birds are preferved for infpection and ftudy in various ways; either whole in fpirits of wine ; or their flins are dried; or, after taking out their flefh, intrails, and brain, they are fuffed in their natural forms, with the addition of various antifeptics; or, when cut in two, and emptied of all the foft parts, one half of the fkin is filled with Paris plafter, in the manner ufed by Schaeffer.

## OF THE TERMS USEDIN ORNITHOLOGY.

AS the terms ufed in ornithological defcriptions are rumerous, and as it is of the utmoft confequence to the fludent of natural hiftory to be thoroughly acquainted with them, the following enumeration of fuch as are moft neceffary, with reference to the annexed engraving, may, it is hoped, be found of confiderable advantage. It is neceffary to remark, that the length of a bird is to be underfood as meafured along the back from the tip of the bill to the end of the tail; and that by extent is meant the meafure between the tips of the wings when fully extended: The under parts of the body are the breaft, belly, and under furface of the rump; the upper parts are the back and rump, fometimes including the upper furface of the wings and tail, if thefe are not paricularly defcribed; and, with a fimilar refervation, the thighs, the under furface of the tail and wings, and the fides under the wings, are fonsetimes included

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in the general expreffion of under parts: In defcriptions, efpecially fuch as are employed for deftinctive characters of the fpecies and varieties, the words above and beneatb are ufed, for fhortnefs, to denote the upper and under parts of the body when applied generally; and fometimes they are employed particularly to fignify the upper or under furfaces of the wings or tail ; but in this laft cafe that circumftance is always fpecified. When a bird is faid to be of a particular colour, it is to be underftood as expreffing the prevailing colour of the body, if particular parts be mentioned, as differently coloured; otherwife the whole plumage is to be fuppofed of the fingle colour mention-ed.-T.

## EXPLANATION OFTHEPLATE.

Fig. I. Shews a bird extended, on purpoíe to explain the principal parts of the head, body, wings, and tail.
a. The baftard wing.
b. The leffer coverts.
c. The greater coverts.
d. The fcapulars.
e. The primary wing quills.
f. The fecondary wing quills.
g. The tertials.
h. The rump.
j. The tail coverts.
k. The tail quills.

1. The fhoulders.
m. The crown.
n. The front.
o. The hind-head.
p. The nape.
q. The chin.
r. The throat.
s. The fcrag.
t. The interfcapulary region.

Fig. 2. Shews the particular parts of the head.
a. The upper mandible.
b. The under mandible.
c. The tooth-like procefs.
d. The frontlet.
e. The front.
f. The crown.
g. The hind-head.
h. The nape.
i. The ftraps.
k. The temples.

1. The cheeks.
m . The chin.
n. Briftles at the bafe of the biil.

Fig. 3. A bird's head, having a creft on the top of the head, and a flender crooked; bill.
Fig. 4. The head of a Pelican.
a. The upper mandible.
b. A claw-like procefs 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 creft on the hind-head:

Fig. 5. The head of an Eagle or Falcon.
a. The upper mandible, hooked at the end, and furnifhed with a tooth-like procefs.
b. The cere, or naked ikin, which covers the bafe of the bill, in which the noffrils are fituated.
c. The orbit, or region of the eye.

Fig. 6. A flender ftraight bill.
Fig. 7. A flender recurved bill.
Fig. 8. The head of a-Duck, having a flat
bill, pectinated at the edges, and fur-
nifhed at the tip with a claw.
Fig. 9. A perching foot.
Fig. 10. A walking foot, having a fpur 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, ufually belonging to fome 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 divifion of birds is only into fix orders, which the illuftrious mafter of our fcience confiders as having fome analogy with the fritt fix orders of the clafs of Mammalia, excluding the order of Cete.
I. Accipitres, analogous to the Ferac.
II. Pic A, analogous to the Primates.
III. Anseres, analogous to the Belluae.
IV. Grall $\mathbb{C l}$, analogous to the Bruta.
V. Galline, analogous to the Pecora.

V1. Passeres, analogous to the Glires.
In the following divifion of the clafs into orders, the Linnaean arrangement is preferved; but, in imitation of the celebrated ornithologif Mr Latham, three additional orders
orders are formed; which trifling alteration of the Linnaean fyltem, it is hoped, will be found ufeful to ftudents of natural hifory; perhaps it might have been better to have imitated Mr. Latham's plan fill farther, by feparating the Terreftrial from the Aquatic birds.

No change whatever is made on the two firf orders, the Accipitres and Picte.-Be-tween the orders of Anferes and Grallae, an intermediate order is introduced, called, By Mr Latham, Pinnatipcdes, or Fin-footed birds, which differ confiderably both from the Web-footed birds, Palnipedes, and the Cioven-footed Waders, Grallae.-The order of Web-footed birds, Palmipedes, which anfwers to the Anferes of Linnaeus, is farther fubdivided, but without inftituting an additional order, into fuch as have long legs, and have their feet only half webbed, Semipalmati, and thofe which are completely webbed and have fhort legs.-The order of Gallizae, which may, in Englifh, be rendered Poultry, is preferved as in the Linnaean arrangement ; but a fmall number of birds, which differ very effentially from the reft in their characters, are feparated into a diflinct order named Strutiones, as refembling the Oftrich, Sirutbio, in characteriftic marks.-Lafly, the order of Paffercs, or fmall birds, is preferved exactly as in the Linnaean divifion of the clafs, except only that the genus of Doves, Columbae, from having very effential characters differing materially from the reft, is placed by itfelf as a feparate order.

As a tranflator, the Editor of this Engliffi edition of the Animal Kingdom had cere tainly no right to alter the Linnaean arrangement; but, inftructed by the examples of Mr Pennant and Mr Latham, he has taken the liberty of fubdividing fome of thefe orders, and of altering, in a night degree, the fituation of a very fmall number of the genera, which he hopes will be of confiderable ufe to the ornithological fudent. Yet, however much he may be convinced that this alteration was for the better, he certainly fhould not have hazarded any deviation from the plan of the Linnaean fyftem, if Dr . Gmelin had not, in repeated inftances, fanctioned this freedom by fimilar alterations, to adapt the fyftem of his great precurfor to the advanced flate of natural knowledge in which he found it.

[^22]G.g.g:

## 

OF THE

## $O R D E R S O F B I R D S$

## 1. ACCIPITRES, or RAPACIOUS BIRDS.

THE bill is fomewhat crooked downwards, having the upper mandible either dilated a little towards the point, or armed with a tooth-like procefs; and the noftrils are open.-The legs are fhort and frong ; 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 fharp at the points. -The body, head, and neck, are very mufcular; and the fkin is very tough. The animals of this order live by preying on other animals, and on dead carcaffes; and their flefh is unfit to be eaten. They live in pairs, and build their nefts in lofty places; the female is generally larger and ftronger than the male, and ufually has four eggs each brood.

## TI. PIC $\mathbb{E}$, or PIES.

The bill is fharp edged, and convex on its upper furface.-The legs are fhort, frong. ith, and of different kinds, fome perchers, fome climbers, and fome fitted for walking, that is, having no back toe.-The body is firmly confructed.-The birds of this order live on various kinds of food, and are mofly reckoned unfit for food. They pair in the breeding feafon, building their nefts on trees; and the male feeds the female during the procefs of incubation, or hatching.

## 1II. PALMIPEDES, or WEB-FOOTED BIRDS.

## * Having long legs.

The body is conical and fomewhat flattened. The thighs are naked on their lower halves; the legs are very long; the feet are fitted for wading; and the toes are only connected together at their pollerior parts by a membrane, femipalmati.-Thefe birds mofly pair in breeding time, and build their neft on the ground. They feed in the
water on fmall fifhes, and various infects; and, efpecially when young, are pretty good eating.
** Palmati. Having fhort legs.
The bill is is fmooth, covered with a membranous fkin, and increafes in fize towards the point.-The feet are fitted for fiwimming, having fhort legs, which are thin;- or compreffed laterally; and the toes areall connected, to their ends, by an interpofed membrane. - Thefe birds. are moftly polygamous, one male affociating with many females; they build their nefts chiefly on the ground, and the mother feldom takes any trouble in feeding the young, which are very foon able to provide for themfelves; they live very much in the water, feeding on aquatic plants, fifhes, and other fubftances, and their flefh has.generally a rancid fifhy flavour.

## IV. PINNATIPEDES, or FIN-FOTED BIRDS.

The bill, body, and mode of life, in the birds of this order, refemble thofe of the Waders.-The thighs are likewife naked for the lower half, and the feet are fitted for wading in marfhes, all the toes being divided; but the toes are edged on each fide with a membrane for their whole length. Thefe birds moflly live in pairs, while breeding, and conftruct very large nefts of various leaves and grafs, in their marfhy haunts.

## V. GRALL 无, or WADERS.

The bill is fomewhat cylindrical.-The thighs are half naked above the knees; the legs are longifh, and the feet are fitted for walking, or wading in miry places, having all the toes diflinct, and deftitute of any interpofed membranes.-The body is thin and compreffed at the fides, having a very thin fkin.-The birds of this order moftly build their nefts on the ground, living fome in pairs, and others promifcuoully. -They live much among fens and marfhes, feeding on worms, and other animal productions of. fuch places; and in general they are reckoned delicate eating.

## VI. GALEINTE, or POULTRY。

The bill is convex, the upper mandible lying like an arch over the lower; and the noftrils are arched over with a cartilaginous membrane. -The feet are of the kind called Runners; curforii, and the toes are rough underneath. - The body is fat and flefhy.-The birds of this order live mofly on the ground, fcraping the earth with their feet, and feeding on grain and feeds, which are macerated in a crop before digeftion; this operation is performed by means of a ftrong mufcular ftomach called the Gizzard; their flefh is univerfally fit for food.-They live mofly in polygamous families of one male and many females, building their nefts with very little art on the
B. I R D.
ground, and the females lay great numbers of eggs each brood; they generally lead their young ones very early in queft of food, which they point out to them by a partis cular 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 fmall and altogether ufelefs for flight.-The feet are fite ted for running, having the toes variounly difpofed in the different genera.-The birds of this order live in pairs, when breeding; build their nefts on the ground, or even leave their eggs there without any neft; and they feed on vegetables and feeds.

## 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 fharp claws.The body is flender. -The birds of this order moftly live in pairs when breeding, building artificially confructed nefts, in various fituations; they mofly fing; they feed fome on feeds, and others on infeets, keeping much on the branches of trees, bufhes, and hedges; and they feed their young ones by pufhing the food down their throats from their own bills. Such as live on infects are reckoned unfit for food, but thofe that feed on feeds and grain are good eating.

## IK. COLUMBR, or DOVES.

The bill is ftraightifh, and is fwelled out at the bafe.-The legs are fhort, with feet fitted for walking, which have fimple fhort, blunt, claws.-The body is flefhy, and nakes very good high flavoured food.-This race of birds lives in pairs, when breeding, making very inartificial nefts on trees, or in hollow places of rocks and caverns; they feed on feeds, grain, and fruits, having a crop and gizzard like the Gallinaceous birds, and they fced their young ones with fuch food as has been already macerated in the crops of the mother.

## C H A R A C T E R S

OFTHE

## 

## I. ACCIPITRES, or RAPACIOUS BIRDS.

it. Vulture. r. Vultur. 41.*. The bill is hooked at the end ; and the head is naked.
2. Falcon. 2. Falco. 42. The bill is hooked at the end, and its bafe is covered with a naked membrane.

| * Baftard-eagles. Gypäëti. | The end of the bill only is hooked, and its bafe has <br> a beard of long briftes. |
| :--- | :--- |
| Of Eagles. | Aquilae. fize, and mofly having hairy or feathery |
| legs. |  | Of fmaller fize, with naked feet.

3. Owl. 3. Strix. $43^{\circ}$

The bill is hooked at the end, and has a frontlet of reverfed briftles.
4. Shrike. 4. Lanius. 44. The bill is almoft ftraight, and is notched near the end.

## II. PIC $\mathbb{X}$, or PIES

* With perching feet.

10. Beefeater. $\dagger$ 8. Bupbaga. 48. A ftraight quadrangular billo

[^23]12. Wattlet.
13. Crow.
14. Roller.
35. Oriole.
16. Grakle.
17. Paradifet.
25. Nut-hatch.
28. Hoopoe.
29. Creeper.
30. Hummer.
10. Glaucopis.
11. Corvus. 50:
12. Corracias. 5.

An arched bill, bent downwards.
A fharp edged bill, and reverfed frontlet.
A fharp edged bill, with the point bent downwards.
A ftraight, conical, and very fharp pointed billo.
A fharp edged equal bill, naked at the bafe.
A fharpifh edged bill, with a filky frontlet.
A fraight bill, wedgedike at the end.-
A bluntifh bill, bent downwards. .
A. fharp pointed bill, bent downwards.

A narrow bill, tubular at the end, and bent: downwards.
** With climbing feet.

| 5. Parrot. | 5. Pfittacus. 45. | A hooked bill, and flefhy tongue: |
| :---: | :---: | :---: |
| 6. Toucan. | 6. Ramphafos. 46. | A ferrated bili, and feathery tongue.: |
| 8. Scythrops. | Scytbrops. | A fharp edged bill, and fplit tongue. |
| 11. Ani. | 9. Crotophaga. 49. | A wrinkled bill, angular at the edges. |
| 8. Curucui. | 16. Trogon. 55. | A ferrated bill, hooked at the point... |
| 19. Barbet. | 17. Bucco. 56. | A fmooth notched bill, hooked at the pointo. |
| 20. Cuckow. | 18. Cuculus. 57. | A fmooth bill; with a rim round the noftrils. |
| 21. | 19. Funx. 58: | A fmooth bill, with a worm-like tongue |
| 22. W.oodpeck | 20. Picus. 59. | An angular bill, with a worm-like tongue |
| 23. Jacamar. | Galbula. | An angular and very fharp pointed |

With walking feet. .

| 7. Motmot. | Momotus. | An angular bill, and feathery tongue. |
| :---: | :---: | :---: |
| 9. Hornbill. | 7. Buceros. 47. | A ferrated bill, with a horny fronto. |
| 24. Kings sfifher. | 23. Alcedo. 62. | A ftraight triangular bill. |
| 27. Bee-eater: | 24. Merops. 63. | The bill is compreffed, and bent downwaids. |
| 26. Tody: | 22: Todus. 61: | A ftraight, flattened, flender bill. |

IH.
nera is occafioned by the ferictly artificial arrangement in which they are here placed, to facilitate the difcovery 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 refemble each other being placed as near together as poffible, without fo much attention to artificial diftinctions, thefe numbers which precede the Englifh names muft be underftood as expreffing the more natural arrangement: The ufes of the other two fets of numbers have been already explained in the preceding note.- $\mathrm{T}_{0}$ :
III. PALMIPEDES, or WEB.FOOTED BIRDS.

* Half-webbed, having long legs. Semipalnati.

| 31. Avofet. | 53. Recurvirofla. 89. | A flattened, flender, pointed bill, bent up |
| :--- | :--- | :--- |
| wards. |  |  |

34. Duck. 28. Anas. 67.
35. Merganfer. 29. Mergus. 68.
36. Auk.
37. Penguin.
38. Petrel.
39. Albatrofs. 33, Diomedea. 71.
40. Pelican. 34. Pelicanus. 72.
41. Darter.
42. Tropicer. $3^{\text {6. Phacton. } 74 .}$
43. Guillemot. Uria.

A broad bill, with a claw at the point of the upper mandible, and having membranous teeth at the edges.
A flender bill, with a claw at the point, and having tharp teeth at the edges.
The bill is flattened at the fides, with tranfverfe lateral wrinkles; the feet have three toes.
The bill is ftraight, narrow, furrowed at the fides, and a little bent downwards at the point; the wings refemble fins, and are ufelefs for flight.
The bill is ftraight, and hooked at the end; the noftrils refemble a tube lying on the bafe of the bill; the feet have each a fpur in place of a back toe.
The lower mandible is abrupt, the upper one hooked at the end ; the feet have three toes.
The face is naked; a membranous bag hangs down from the under mandible. The bill is long, flraight, flarp pointed, and ferrated at the edges; the neck is very long.
The bill is flattened at the fides, fharpo edged, and ferrated.
The bill is fraight, flender, ftrong, and pointed; the feet have only three toes.

| 44. Diver. | 37. Colymbus. 75. | The bill is ftraight, frong, and pointed, the edges of the mandibles bending inwards; the legs are fettered. |
| :---: | :---: | :---: |
| 4.5. 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 fraight, flender, pointed, and flattened latterally at the end. |
| 47. Skimmer. | 40. Rynchops. 78. | The upper mandible is thorter than the: under one. |

## IV. PINNATIPEDES, OR FIN-FOOTFD BIRDS.

48. Phalarope. 4. Coot.
49. Grebe. Podiceps.

The bill is ftraight and flender.
The bill is frong, thick, conical, and fomewhat flattened at the fides; the: front is compofed of the bafe of thebill, and is naked.
The bill is long, 』ender, and fharp pointed; the feet are fettered; the tail is wanting.
V. GRALLE, OR WADERS:
51. Spoonbill. 42. Platalea, 80. The bill is long, broad, flat, thin, and much widened at the end.
The bill is fharp, and hooked at the end.
The bill is long, large, and bent upwards;: the upper mandible thicker, and trianogular.
The bill is broad, and flat, having a ridge: along the middle like the keel of a reverfed boat.
The bill is thick, flattened at the fides, blunt, and ridged.
The bill is long, frong, fraight, and fharpifh.
The bill is crooked; the face naked; and the chin is furnifhed with a bag.

| 59. Curlew. | Numenius. | The bill is crooked; and the face is cover. ed with feathers. |
| :---: | :---: | :---: |
| 58. Snipe. | 50. Scolopax. 86. | The bill is fraight, long, roundifh, and bluntifh. |
| 60. Sandpiper. | 51. Tringa. 87. | The bill is ftraight, roundifh, and blunt; the back toe hardly reaches the ground. |
| 61. Plover. | 52. Cbaradrius. 88. | The bill is ftraight and roundifh; the feet have no back toe. |
| 62. Runner. | Curforius. | The bill is roundifh, and hooked at the point ; the feet have no back tóe. |
| 63. Oyfter catcher. | 54. Haematopus. go. | The bill is flattened at the fides, and wedgelike at the end; the feet want the back toe. |
| 64. Pratincole. | 55. Glareola | The bill is fhort, ftrong, fraight, and hooked at the end; the noftrils are long, narrow, and oblique. |
| 65. Sheath-billo | 57. Vaginalis. | The bill is thick, and conical, and the extremity of the upper mandible is covered with a horny fheath, lying over the noftrils. |
| 66. Jacana. | 58. Parra. 92. | The bafe of the bill is befet with moveable warts. |
| 6.7. Rail. | .59. Rallus. | The bill is fomewhat ridged on the back; the body is flattened at the fides. |
| 68. Gallinule | Gallinula | The bill is thick at the bafe, fraight, and fharp pointed ; the front is naked. |
|  | VI. GALLINE, OR POULTRY. |  |
| 70. Buftard. | 61. 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 fhort, ftrong, and convex; the crown is ornamented with an erect creft of feathers. |
| 72. Turkey. | 65. Meleagris. 99. | The face and neck are covered with naked warty flefh. |
| 73. Penelope. | 66. Penelope. | The bill has no cere; the head is clothed with feathers. |
| Vol. I. | Hhh |  |


| 74. Curaffo. | 67. Crax. 100 | The bill is covered at the bafe with a cere. |
| :---: | :---: | :---: |
| 75. Pheafant. | 68. Pbaijanus. IOI | The cheeks are naked and fmooth. |
| 76. Pintado. | 69. Numida. 102. | Has two pendant wattles at the bafe of the bill. |
| 79. Tinamou. | Tinamus. | The bill is longifh, and blunt at the end, having the nofrils about its middle. |
| 77. Grous. | 70. Tetrao. 103. | The bill is frong, fhort, and convex; above each eye is a naked coloured. fkin. |
| 78. Partridge | Perdix. | The bill is ftrong, fhort, and convex ; the: fpace above each eye is covered. |
| 69. Trumpeter. | 60. Pfophia. 94. | The bill is fhort, and a little convex on the upper mandible; the noftrils are: oval and pervious; the lower half of the thighs are naked. |

## VII. STRUTHIONES, ORSTRUTHIOUS BIRDS.

83. Dodo.
84. Didus. 97.

Rbea,
82. Tougai.
81. Caffowary. Cafuarius.
80. Oftrich
62. Struthio. 86.

The bill is large, fraitened in the iniddle, and hooked at the end; the face is almoft naked; the feet have three toes before and one behind.
The bill is ftraight, and fomewhat conical; the feet have three toes before, and a callofity in place of the back toe..
The bill is ftraight, and fomewhat conical; the feet have three toes befure, and none behind.
The bill is fraight, flattened, and blunt; the feet have two toes before, and none: behind.
VIII. PASSERES, OR PASSERINE BIRDS.

* Having thick bills. Crafiroftres.

89. Grofsbeak.

The bill is very thick at the bafe, and of a conical form, being convex both above and below.
88. Coly, 76. Colius. The bill is convex above, and ftraight below.
The bill is conical, and fharp pointed.
The bill is flraight, conical, and ferrated. The bill is fomewhat conical, its under mandible being broader, and turned inwards at the edges.
** Having the end of the upper mandible fomewhat hooked. Curviroflres.
-100. Goatfucker.
99. Swallow.
97. Manakin. 87. Caprimulgus. 118. The bill is hooked, flattened, exceffively wide in the gap, and fringed at the bafe; the nofrils are tubular.
86. Hirundo. 117.
84. Pipra. $115^{\circ}$ The bill is fhort, broad at the bafe, flattened, fharp pointed, and fomewhat hooked.
The bill is fhort, ftrong, and flightly hook. ed.
*** Having the upper mandible notched, on each fide, near the end. Emarginatirefreso
86. Thrufh.
87. Chatterer. 75. Ampelis. 108.
91. Tanager. 79. Tanagra. 111.
94. Flycatcher. 82. Mufcicapa. 113. The bill is tapering, and pointed; and the bale is flattened and fringed with brifles.
**** Having flraight, "flender, tapering, fharp pointed, bills. Simplicirofres,
85. Stare. 73. Sturnus. 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 fhort.

## 98. Titmouse, 85. Parks. 116. <br> The tongue feems cut off at the end, and is fringed with three or four briftles; the frontlet confifts of reflected brittle which cover the noftrils. IX. COLUMBA, ORDOVÉS. <br> 101. Pigeon. 71. Columba. 104. The bill is weak, flender, ftraight at the: bare, and a little protuberant near the: end, where the noftrils are lodged.

# SYSTEMATICCATALOGUE 

OF THE

## B I R D


#### Abstract

I. RAPACIOUSBIRDS.


VULTURE. i VULTUR.

I Condour
2 White-headed Vulture
3 Norwegian White-head-
ed Vulture
4 Sardinian White-headed Vuiture
5 Sooty White-headed Vul-
ture
6 Bengal White-headed Vulture
7 King Vulture
8 Arabian Vulture
9 Carrion Vulture
Io Black Carrion Vulture
if Cinereous Vulture
12 Blackilh Cinereous Vult.
13 Maltefe Vulture
${ }_{14}$ Black Vulture
15 Fulvous Vulture
16 Aquiline Vulture
${ }_{7}$ Egyptian Aquiline Vult.
18 Crefted Vulture
19 Barbary Vulture
${ }_{20}$ Pondichery Vulture
${ }_{2 I}$ Indian Vulture
22 Gingi Vulture

I Vultur Gryphus
2 Vultur leucocephalus
$\beta$. V. leucocephalus norvegicus
$\gamma$. V.leucocephalus fardicus
ס. V. leucocephalus fuliginofus
£. V. leucocephalus bengalenfis
3 Vultur Papa
4 Vultur Monachus
5 Vultur Aura
$\beta$. V. Aura niger
6 Vultur cinereus
${ }^{\beta}$. V. cinereus nigricans
7 Vultur fufcus
8 Vultur niger
9 Vultur fulvus
10 Vultur Percnopterus
$\beta$. V.Percnopterusaegyp-
tius
${ }_{1 I}$ Vultur criftatus
${ }_{12}$ Vultur barbarus
${ }_{13}$ Vultur pondicerianus
${ }_{1} 4$ Vultur indicus
${ }_{5} 5$ Vultur ginginianus

> FALCON. ii FALCO.

Divided into

* BASTARD-EAGLES.
${ }_{23}$ Secretary
24 Harpy
25 Black Harpy
26 Tawny Baftard-eagle
27 Angola Baftard-eagle 28 Bearded Baftard-eagle 29 Golden Baftard-eagle 30 Perfian Baftard-eagle

I Gypaetus ferpentarius
${ }_{2}$ Gypaetus Harpyja
3 Gypaetus Jacquini
${ }_{4}$ Gypaetus ambuftus
5 Gypaetus angolenfis
6 Gypaetus barbatus
$\beta$. G. barbatus aureus
$\gamma$. G. barbatus pericus

3I Cinereous Baftard-eagle 32 Plaintive Baftard-eagle
33 Cheriway
** EAGLES.
34 Crowned Eagle
35 Chilefe Eagle
36 Common Eagle
37 German Eagle
38 Bald Eagle
$3 y$ Ofprey
40 Golden Eagle
41 Tawny Eagle
42 Canadian Tawny Eagle
43 White-bellied Eagle
44 Japanefe Eagle
45 American Eagle
46 White Eagle
47 Louifiana Eagle
48 Small Eagle
49 Spotted Eagle
50 White-taled Eagle
5 I French Eagle 52 Antartic Eagle
53 Black-backed Eagle
54 White-crowned Eagle
55 Ruffian Eagle
56 Crefted Eagle
57 Kough-legged Eagle
58 Greenland Eagle
59 Fierce Eagle
60 Javan Eagle
61 Egyptian Eagle
62 Kite
$6_{3}$ Siberian Kite
64 Ruflian Kire
65 Jaic Kite
66 Black Kite
67 Auftian Kite
68 Brafilian Kite

7 Gypactus Albicilia
8 Gypaetus plancus
9 Gypaetus Cheriway

## AQUILAE.

1 Aquila coronata
2 Aquila Tharus
3 Aquila Melanaetos
4 Aquila Glaucopis
5 Aquila leucocephala
6 Aquila Oflifraga
7 Aquila Chryfaetos
8 Aquila fulva
ß. A. fulva canadenfis
9 Aquila leucogafter
10 Aquila japonenfes
in. Aquila americana
12 Aquila alba
13 Aquila candida
14 Aquila naevia
15 Aquila maculata
16 Aquila albicauda
${ }_{7}$ Aquila gallica
18 Aquila auftralis
I9 Aquila melanonota
20 Aquila leucoryphos
21 Aquila Mogilnik
22 Aquila criftata
23 Aquila lagopus
24 Aquila groenlandica
25 Aquila ferox
26 Aquila javanica
27 Aquila aegypta
28 Aquila Milvus
$\beta$. A. Milvus fibiricus
$\%$ A. Milvus Korfchun
8. A. Milvus jaicenfis

29 Aquila atra
30 Aquila auftriaca
3I Aquila brafilienfis.

69 Peruvian Kite
70 Balbuzard
71 Ruflian Balbuzard
72 Carolina Balbuzard
73 Cayenne Balbuzard
74 Mansfeny
75 Chinefe Eagle
75 Cheela
77 Afratic Eagle 78 New-holland Eagle
79 Urubutinga 80 Pondichery Eagle
8i Equinoctial Eagle

32 Aquila peruviana
33 Aquila Haliaetos
$\beta$. A. Haliaetos arundina-
cea
\%. A.Haliaetos carolinen-
ठ. A.Haliaetoscayennenfis
34 Aquila antillarum
35 Aquila finenfis
36 Aquila Cheela
37 Aquila afiatica
38 Aquila novae hollandiae
39 Aquila Urbutinga
40 Aquila pondiceriana
41 Aquila aequinoctialis

## FALCONES.

82 Oriental Fawk
83 Indian Hawk
84 Common Euzzard
85 Greater Buzzard
86 Spotted Buzzard
8 J Jumaica Ruzzard
88 American Buzzard
8) Rufous Buzzord

90 Speckled Buzzard
91 Whitifn Buzzard
92 Honey Buzzard
93 Moor Buzzard
94 Sclaæonian Bezzard
95 Croatian Buzzard
06 Rufty Puzzard
97 Java Buzzard
$9^{9}$ Cincreous Bezzard
99 Sircaked Buzzard
ioo Leverian Falcon
Io1 Plain Falcon
ic 2 Colla:cd Falenn
1c3 New-zealand Tralcon
104 Golhawl-
105 Caycnme Falcon
io6 Long-tailut Falcon
107 Gentle Taicon
I 08 Common Palcon
Iog Yearing Falcon
I 10 Haggard Falcon
I I White-headed Talcon
I I2 White Faicon
II3 Black Ta?con
1 I4 Spot-winged Falcoa
II 5 Prowricacon
I I6 i.cd-fpotted Fuscon
117 'Pawry Falcon
118 Ttalian Falcon
in Arćtic Falcon
i20 Iceland Falcon

I Falco orientalis
2 Falco indicus
3 Falco Buteo
4 Falco gallinarius
6. F. gallinarius naevius

5 Talco jamaicenfis
6 Falco borealis
7 Falco rufus
8 Falco variegatus
9 Falco albidus
Io Falco apivorus
I I Falco aeruginofus
I 2 Falco fclavonicus
I 3 Falco marginatus
I 4 Falco rubiginofus
1.5 Falco javanicus

16 Talco cinercus
17 Falco lineatus
is Falco leverianus
19 Falco obfolctus
20 Falco rufticolus
2i Falco novae-feelandiae
22 Falco palumbarius
23 Falco cayennenfis
24 Falco macrourus
${ }_{25}$ Falco gentilis
26 Falco communis
F. F. communis hornotinus
$\because$ F. communis gibbofiss
i. I. communis leucocephalus
£. F. communis albus
$\%$ P. communis ater
\%. F. communis nacrius
9. T. communis fufcus

1. J. communis ruber
\%. T. communis indicus
2. P. communis italicus
\%. I. communis ar氏ícus
27 Falco intandus

121 White Iceland Falcon
12.2 Spotted Iceland Falcon

123 Barbary Falcon
124 Peregrine Falcon
125 TartarianPeregrine Fal-
con
126 Variegated Falcon
127 Booted Falcon
128 Chocolate Falcon
129 White-rumped Chocolate Falcon
130 St John's Falcon
I 31 Sacre
${ }^{1} 32$ American Sacre
${ }_{1} 33$ Newoundland Falcon
${ }_{1} 34$ Starry Falcon
135 Northern Falcon
${ }_{13} 6$ Rhomboidal Falcon
I 37 Black-necked Falcon
${ }^{1} 3^{8}$ White-necked Falcon
139 Red-headed Falcon
i 40 Crefted Falcon
141 Pied Falcon
142 Ceylonefe Falcon
143 Grcy Falcon
144 Brown Gyrfalcon
145 White Gyrfalcon
146 Iceland Gyrfalcon
147 Surinam $\mathbf{F}$ alcon
148 Laughing Falcon
149 Streaked Falcon
150 Notched Falcon
${ }_{15}{ }^{1}$ Common Lanner
152 White Lanner
${ }^{1} 53$ Spot-tailed Lanner
154 Bluc Hawk
${ }_{1} 55$ Ring-tail Hawk
156 Hudfons Hawk
157 Scarlet Hawk
${ }_{1} 58$ Marfh Hawk
159 Stone Falcon
160 Mountain Falcon
16ı Afh coloured Mountain Falcen
I62 Common Keftril
153 Grey Keftril
164 Lark Keftril
${ }_{1} 65$ Bohcmian Hawk
166 Fithing Falcon
167 Brown Hawk
168 Aquiline Falcon
169 American Hawk
170 Sparrow Hawk
${ }^{1} 71$ Spotted Sparrow Hawl
172 White Sparrow Hawk
173 Dubious Falcan
174 Dufky Falcon
175 Pigcon Hawk
${ }_{17}{ }^{2}$ Grey Pigcon Hawk
$\beta$. F. iflandus albus
$\%$ F. iflandus maculatus
28 Falco barbarus
29 Falco peregrinus
3. F.peregrinustartaricus

30 Falco verficolor
3 I. Falco pennatus
32 Falco fpadiceus
ß. F. fpadiceus leucourus
33 Falco Sti johannis
34 Falco facer
B. F. faccr americanus

35 Falco novae-terrae
36 Falco ftellaris
37 Falco hyemalis
38 Falco rhombeus
39 Falco nigricollis
40 Falco albicollis
41 Falco meridionalis
42 Falco cirrhatus
43 Falco melanoleucos
44 Falco ceylanenfis
45 Falco grifeus
46 Falco Gyrfalco
47 Falco candicans
$\beta$. F. candicans iflandus
48 Falco fufllator
49 Falco cachinnans
50 Falco melanops
5 I Falco bidentatus
52 Falco Lanarius
$\beta$. F. Lannarius albicans
$\%$ F. Lanarius celiurus
53 Falco cyaneus
54 Falco pygargus
55 Faloo hudfonius
56 Falco Buffoni
57 Falco uliginofus
58 Falco Lithofalco
59 Falco montanus
$\beta$. F. montanus cinereus
60 Falco Tinnunculus
$\beta$. F. Tinnunculus grifeus
$\%$ F.Tinnunculus alaudan
rius
6i Falco bohemicus
62 Falco pifcator
63 Falco badius
64 Falco aquilinus
65 Falco fufcus
ós Falco Nifus
$\beta$. F. Nifus maculatus
$\%$ F. Nifus lacteus
67 Falco dubius
68 Falco obfcurus
69 Falco columbarius
$\beta$. F. columbarius grifeus
${ }_{177}$ Guiana Falcon
178 Ingrian Falcon
179 Permian Falcon
180 Great-billed Falcon
18i Criard Falcon
I82 Johanna Falcon
183 Common Hobby
184 Northern Hobby
185 Surinam Hobby
186 SmallerSurinam Hobby
187 Spotted Surinam Hobby
188 Spot-tailed Hobby
189 Common Merlin 190 New-york Merlin

191 Caribbee Merlin 192 Falconers Merlin

193 Carolina Merlin
194 Domingo Merlin
195 Minute Falcon
I96 Bengal Falcon
197 Siberian Falcon
I98 Tiny Falcon

70 Falco fuperciliofus
71 Falco vefpertinus
72 Falco vefpertinoides
73 Falco magniroftris
74 Falco vociferus
75 Falco johannenfis
${ }_{76}$ Falco Subbuteo
$\beta$. F. Subbuteo borealis
77 Falco aurantius
$\beta$. F. aurantius minor
$\gamma$. F. aurantius maculatus
78 Falco plumbeus
79 Falco Aefalon
$\beta$. F. Aefalon noveboracenfis
\%.F. Aefalon caribaearum
i. F. Aefalon falconariorum
8o Falco Sparverius
81 Falco dominicenfis
82 Falco minutus
83 Falco cerulefcens
${ }_{84}$ Falco regulus
85 Falco pumilus

O W L. iii. $S T R I X$.

> * Eared, or Horned.

199 Great Owl
200 Athenian Great Owl
201 Smooth-legged Great
Owl
202 Variegated Great Owl
203 Virginian Owl
204 Scandinavian Owl
205 Ceylon Owl
206 Chinefe Owl
207 Coromandel Owl
208 Red Owl
209 Mexican Owl
210 American Owl
211 Long-eared Owl
212 Italian Long-eared Owl
213 Arctic Long-eared Owl
214 Short-eared Owl
215 Brafilian Owl
216 Mot:led Owl
217 Indian Owl
218 Sardinian Owl
219 Carniolic Owl
220 Yaik Owl
221 Siberian Owl
222. Scops Owl

I Strix Bubo
f. S. Bubo athenicnfis
\%. S. Bubo nudipes
d. S. Bubo variegata

2 Strix virginiana
3 Strix feandiaca
4 Strix zeylonenfis
5 Strix finenfis
6 Strix coromanda
7 Strix Afio
8 Strix mexicana
9 Strix americana
Io Strix Otus
f. S. Otus italicus.
$\%$ S. Otus arcticus
I I Strix brachyotos
12 Strix brafiliana
13 Strix naevia
14 Strix indica
15 Strix Zorca
y 6 Strix carniolica
${ }_{18}$ Strix deminuta
18 Strix pulchella
19 Strix Scops

223 Snowy Owl
224 Speckled Snowy Owl 225 Swedifh Owl
226 Barred Owl

20 Strix Nyçea
B. S. Nyctea flriata

21 Strix Tengmalmi
22 Strix nebulofa

227 Sooty Owl
228 Spectacle Owl
229 Spotted Owl
$23^{\circ}$ Coquimbo Owl
231 Sacred Owl
232 Aufrian Owl
233 White Owl
234 Reddifh Owl
235 Rufty Owl
236 French Owl
237 Mountain Owl
${ }_{23} 8$ Common Owl
239 Screech Owl
240 Drown Owl
241 Leffcr Brown Owl
2.42 Arćtic Owl

243 Canadian Owl
244 Hudfons Owl
245 Ural Owl
246 Cafpian Owl
247 Jara Owl
248 New-zealand Owl
249 Spotted New-zealand
Owl
250 Cayenne Cwl
251 Domingo Owl
252 Ncw-fpain Owl
253 Chichictli Owl
254 Acadian Ovvl
255 Little Owl
256 American Little Owl
${ }_{257}$ Ruffian Little Owl
SHRIKE. iv.
2.58 Drongo Shrike

259 Malabar Shrike
250 Fingah Shrike
261 Chafnut Shrike
252. Crefled Shrike

263 Canadian Shrike
264 Louifiane Shrike
255 Grey Shrike
266 Flook-billed Shrike
267 Collared Shrike
268 Luzonian Shrike
269 Great Shrike
270 White Great Shrike
271 Larger Grcat Shrike
272 Butcher Shrike
273 Variegated Butcher Shrike
274 Red Butcher Shrike
275 Senegal Butcher Shrike
276 Black-crowned Butcher
Shrike
277 Antiguan Shrike
278 Black Shrike
279 Lever's Shrike
280 Surinam Shrike

23 Sitix cincrea
24 Strix perfpicillata
25 Strix maculata
26 Strix cunicularia
27 Strix Aluco
28 Strix fylveftris
29 Strix alba
30 Strix Noctua
3) Strix rufa

32 Strix folonicufis
33 Strix barbata
3.4 Strix flamine:

35 Strix frridula
36 Strix Ulula
в. S. Ulula minor

37 Sitrix arctica
38 Strix funcrea
39 Strix hudfonia
40 Strix uralenfis
4I Strix accipitrina
42 Strix javanica
43 Strix novae-feelandiae
R.S.novae-feelandiae maculata
$4 \div$ Strix cayennenfis
45 Strix dominicenfis
46 Strix Tolchiquatli
47 Strix Chichictli
48 Strix acadica
49 Strix pafferina
ß. S. paffcrina americana \%.S. pafferina roflica
iv. $\quad L A N I U S$.

I Lanius forficatus
2 Lanius malabaricus
3 Lanius cerulefcens
4 Lanius caftaneus
Lanius criftatus
6 Lanius exnadenfis
Lanius ludovicianus
8 Lanius Nengeta
Lanius curviroftris
io Lanius collaris
i I Lanius lucionenfis
12 Lanius Excubitor
R. L. Excubitor albus
\%. L. Excubitor major
${ }_{1} 3$ Lanius Collurio
\&. L. Collurio warius.
\%. L. Collhrio rufus
ס. L. Coilurio fenegalenfis.
s. L. Collurio melanocephalus
I4 Lanius antiguanus
15 Lanius niger
i6 Lanius Leverianus
${ }^{7} 7$ Lanius atricapillus

28 I Pomeranian Shrike 282 Tyrant Shrike 283 Domingo TyrantShrike

284 Carolina Tyrant Shrike
285 Louifiana Tyrant Shrike
286 Chinefe Shrike
287 Brafilian Shrike
288 Rufous Shrike
289 Barbary Shrike
290 Yellow-bellied Shrike
29 I Cayenne Shrike
292 Spotted Cayenne Shrike
293 Leffer Cayenne Shrike
294 Orange Shrike
295 Senegal Shrike
296 Madagafcar Shrike
297 Bengal Shrike
298 Blue Shrike
$299^{\circ}$ Manilla Shrike
300 Rufty Shrike
301 Tabuan Shrike
302 Pacific Shrike
303 Northern Shrike
304 Black-capped Slirike
305 Green Shrike
306 White-headed Shrike
30.7 Dominican Shrike

308 Panay Shrike
309 White Shrike
3 Io Variegated Shrike
3 II Spotted Shrike
3 I 2 Dulky Shrike
3 I3 Brown Shrike
3I4 Red Shrike
3I5 American Shrike
3 I6 Leffer Shrike
$3{ }^{17} 7$ Nootka Shrike
3 I 8 Boolboul Shrike
3 I9 Black-headed Shrike
320 Short-tailed Shrike
32 I Red-tailed Shrike
322 Pied Shrike
323 Jocofe Shrike
324 Rock Shrike
325 Leffer Rock Shrike
326 Wreathed Shrike

18 Lanius pomeranus
19 Lanius Tyrannus
$\beta_{i}$ L. Tyrannus dominicenfis
$\gamma$ L.Tyrannus carolinen-
fis
ঠ. I. Tyrannus ludovicianus
20 Lanius Schach
2 I Lanius Pitangua
22 Lanius rufus
23 Lanius barbarus
24 Lanius fulphuratus
25 Lanius cayanus
$\beta$. L. cayanus naevius
$\%$. L. cayanus minor
26 Lanius aurantius
27 Lanius fênegalus
28 Lanius madagafcarienfis
29 Lanius Emeria
30 Lanius bicolor
3 I Lanius leucorynchos
32 Lanius ferrugineus
33 Lanius tabuenfis
34 Lanius pacificus
5 Lanius feptentrionalis
6 Lanius pileatus
37 Lanius riridis
38 Lanius leucocephalus
39 Lanius dominicanus
40 Lanius panayenfis
41 Lanius albus
42 Lanius varius
43 Lanius naevius
44 Lanius obfcurus
45 Lanius fufcus
46 Lanius ruber
47 Lanius americanus
48 Lanius minor
49 Lanius Nootka.
50 Lanius Boulboul
5 I Lanius melanocephalus
52 Lanius brachyurus
53 Lanius phoenicurus
54 Lanius doliatus
55 Lanius jocofus
56 Lanius infautus R. L. infauftus minor

57 Lanius fauftus
II. $P$ I E .

PARROT.
v PSTTACUS.
*With long wedge-like tails.

```
327 Ara
328 Aracanga
329 Military Maccawy
330 Ararauna
33I Blue Ararauna
```

I Pfittacus Macao
2 Pfittacus Aracanga
3 Pfittacus militaris
4 Pfittacus Ararauna
ß. Pf. Ararauna caeruleus
$33^{2}$ Hyacinthine Maccaw
333 Makawuana
334 Black Maccaw
335 Obfcure Párrot
336 Noble Parrot
337 Maracana
$33^{8}$ Dufky Maracana
339 Gingee Parrot
340 Japonefe 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
35 I 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
$35^{8}$ Gueby Parrot
359 Violet Parrot
360 Variegated Parrot
36 I Pennantian Parrot
362 Phillips Pennantian Par-
rot
363 Splendid Parrot
364 New-guianca 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 Alexandrine Parrot
374 Double-ringed Alexandrine Parrot
375 Bluc-headed Alexandrine Parrot
376 Javan Alexandrine Par.
377 Illinois Parrot
378 Leverian Parrot

5 Pfittacus hyacinthinus
6 Pfittacus Makawuana
7 Pfittacus ater
8 Pfittacus obfcurus
9 Pfittacus nobilis
io Pfittacus feverus
$\beta$. P. feverus erythrochlorus
I I Pfittacus Eupatria
12 Pfittacus japonicus
${ }_{1} 3$ Pfittacus amboinenfis
14 Pfittacus cyanocephalus
15 Pfittacus haematotus
$\beta$. Pf. haematotus moluccanus
\%. Pf. haematotus novaehollandiae
ð. Pf. haematotus daviefianus 16 Pfittacus atricapillus
${ }_{17}$ Pfittacus tabuenfis
$\beta$. Pf. tabuenfis coccineus
18 Pfittacus papuenfis
3. Pf. papuenfis porphuroftethos
r. Pf. papuenfis melanonotos
d. Ef. papuenfis chlorogafter
19 Pfittacus borneus
20 Pfittacus indicus
21 Pfittacus elegans
$\beta$. Pf. elegàns viridis
22 Pfittacus guebienfis
${ }_{23}$ Pfittacus janthinus
24 Pfittacus variegatus
25 Pfittacus Pennantii
$\beta$. Pf. Pennantii Phillipi
26 Pfittacus gloriofus
${ }_{27}$ Pfittacus novae-guineae
28 Pfittacus javanicus
29 Pfittacus Jandaya
30 Pfittacus foliticialis
3 I Pfittacus Guarouba
$\beta$. Pf. Guarouba mexica-
nus
32 Pfittacus carolinenfis
33 Pfittacus Alexandri
$\beta$. Pf. Alexandri rofeo-
collari
$\gamma$. Pf. Alexandri purpureocollari
ภ. Pf. Alexandriduplocol-
lari
\&. Pf. Alexandri cyanocephalus
ケ. Pf. Alexandr: javanicus
34 Phitacus pertinax
35 Phittacus Leverianus

# I. $R \cap P A C I O U S B I R D S$. <br> <br> The upper mandible has an angular projection, or <br> <br> The upper mandible has an angular projection, or is dilated a little at each fide, near the point. 

 is dilated a little at each fide, near the point.}

I. VULTURE-I. $V U L T U R .41$.<br>The hill is furioht. and hooked at the end, having the bafe

It was found impoffible to complete the Syftematic Catalogue of Birds, without great rifk of inaccuracy, until the whole of the clafs is printed off; in the mean time allowance is made, in the fignatures and folios, for the infertion of the remainder of the Catalogue: This information was thought neceffary to account for the apparent hiatus, and to direct the Bookbinder, for the prefent, that $p$. 432, being the laft of Sheet Hhh , is to be followed by p .469 , being the firft of Sheet O 00 : The fheets omitted [viz. Iii, Kkk, Lll, Mmm, Nnn] will be delivered along with the laft part of the Clafs of Birds, and muft then be inferted in their proper place.
(To be inferted between page 432 and page 469 of Vol. i. Part ii.)

Afia, nor, except one fpecies, the Carrion Vulture, do they ever inhabit the north of America. Ihe fpecies and varieties of this genus are diftinguifhed from each other with great difficuliy, and even the genus itfelf is by no means very eafily feparated from that which immediately follows. In this genus, befides the circumfances already noticed in the character, the legs and feet are mofly covered with large fcales; the firft joint of the middle toe is generally comected to that of the outer toe by a ftrong membrane; the craw, or crop, often hangs over the breaft, cfpecially when gorged with food; and the infides of the wings are lined with down.

Of vaft fize, having a iongitudinal wariy excreffence on the crown of the head, and a naked throat.
V. Gryphue Lath.ind. orn. i. I. n. I.-V. Grrps, Gryphus. Kiein, av. 45. 11. 8. Briff. av. i. 473 . n. 12. Borowilk. nat. ii. G2. n. 2.-Cuntur. Laet. amer. 401. Raj. fyn. If. n. 9.-Condor, Frez. Voi. I. OOO
it. II 1. Condam. it. 175. Buff. oif. i. 184. Molin. chil. 236 .-Condur. Lath. fyn. i. 4. Id. fup. I. Hawkefw. voy. i. 15 .

Inhabits South America.-This bird is of enormous fize, the wings meafuring, when extended, nine, twelve, or even fixteen feet, from tip to tip; the largeft quill-feathers of the wings, fometimes meafure 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 furrounded with a collar of longifh white feathers; the chin is reddifh; the head is clothed with brown down or wool ; the eyes are black, with chefnut, or light reddifh irides; the bill is black, with a whitifh point; the legs and feet are black, and the claws are ftraightifh; the tail is fimall. The female is confiderably larger than the male, which it refembles, except in having a brown creft or tuft on the fcrag, or hinder part of the neck.
The Condour builds its neft on the fteepeft mountains, under the fhelter of fome projecting fhelf of a rock, in which the female lays two white eggs. It preys on calves, fheep, goats, and fuch like animals, and, when very much preffed by hunger, has been known to carry off children of ten years of age; nay two of them are faid to be able to deftroy and eat up the carcafs of a cow at one meal. When alighting on, or rifing from, the ground, it makes fuch a noife with the wings, as to terrify and almoft deafen 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. ıo. n. 6. Will. orn. 35. n. 6. Id. angl. $67 .-\mathrm{V}$. 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. I.-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 alfo been found in Norway.-This fpecies is fome 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 diftinct fcales.
There is a confiderable difcrepancy between the defcriptions of this feecies as given by Dr Gmelin, Mr Latham, and other naturalifts; Mr Latham defcribes it as 'of a footy afh-colour with red-- difh fpots, having the head, neck, and bafe of the tail white,' and fays, that it inhabits Afia, Africa, and the fouth of Europe; for which reafon I have referred his defcription to a feparate variety. According to Mr Bomare, the general colour is a dirty white, fomewhat mixed with brown, having. the primary wing quill-feathers black, and the reft of a brownifh black or foot colour, the head, neck, and maw being fafiron coloured; he adds, that the legs are flender, and longer than thofe of moft Vultures, with naked afh-coloured feet, and fays that the animal is five feet in extent, and only two feet three inches long. Dr Gmelin is uncertain whether the fpecies he defcribes may not be a variety of the V. Percnopterus, or rather of the V. fulvus. Amid fuch uncertainty in the defcriptions of fo many celebrated naturalifts, all that lias been here attempted is to give a clear view of their feveral 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.


N： 7
N：39


## $\beta$. Norwegian White-headed Vulture.-V. leucocepbalus norvegicus.

Is almoft entirely of a fnowy whitenefs; the head and neck being naked and reddifl; having a yellow bill, with a remarkable black fpot. Syit. nat. ed. Gmel. i. 248. n. ro.

Of mixed afh, brown, and greyih plumage, with black wing and tail quill-feathers. Syft. nat. ed. Gmel. i. 248. n. ıo.
s. Sooty White-headed Vulture.-V. leucocepbalus fuliginofus.

The body is of a footy colour, with reddifh fpots; the head, neck, and root of the tail, being white. Lath. ind. orn. i. 2. 11. 4.
This variety is found in Afia, Africa, and the fouth of Europe.-From the remarkable difference between the fnowy whitenefs of the fpecies, or variety, defribed by Dr Gmelin, which fands at the head of this article, and the footy colour of this variety as defribed by Mr Latham, it appeared requifite to feparate them at leaft into two varieties. This Sooty variety is probably the Vultur percnopterus of the Fauna aragonenfis; it is two feet and a half long, and builds its neft in lofty rocks; the bill is black ; the front and chin are naked, and covered with a yellowih wrinkly flein; the external margins of the wing quill-feathers are white or hoary, except thofe of the two outer primaries.

## ع. Bengal White-headed Vulture.-V. leucocepbalus bengalenfis.

Of a dufky brown or blackih colour, the head and fore part of the neck being naked, and of a pale chefnut colour, and the fhafts 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. i. Id. fup. 3.-V. leucocephalus, femina. Lath. orn. i. 3. n. 4. ß.-V. bengalenfis. Syft. nat. ed. Gm. i. $245 \cdot$ n. 2.

Inhabits Afia,-Africa, and the fouth of Europe, being found as far as Bengal.-This animal is two and a half feet long; the head and naked part of the neck are covered with brown wool or down; the legs and feet are of a blackifh brown colour, with black claws; the bill is of a leaden colour, with a white point ; the craw hangs over the breaft. The eggs are of a dirtyifh appearance.

This variety is confidered as a diftinct fpecies of the genus by Dr Gmelin; and Mr Latham was formerly of that opinion. In his laft publication, however, it is. fuppofed 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.

Of a reddifh white colour ; the head and neck are naked, and the noftrils are furrounded with dentated flefhy 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. 4;o. n. i1.t. 36.-Roi des vautours.

Buf. 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 Weft India Ifles.-This fpecies is about the fize of a hen Turkey: The head and upper part of the neck are naked, and feem raw or excoriated; the fpace round the eyes is naked, and of a faffron yellow colour; a fillet of blackifh woolly down furrounds the head, from the hind head forwards; the quill-feathers are black, verging to afh colour; the feet and point of the bill are red ; the cere is orange coloured. This animal flies very high; it preys on ferpents, lizards, rats, and fuch animals; and likewife devours putrid carcafles, from which it acquires a very difagreeable fetor.

## 4. Arabian Vulture.-4. Vultur Monacbus. 4.

Of a black colour, with a protuberant hind head.
V. Monachus. Lath. ind. orn. i. 5. n. 9.-V. arabicus. Brif. orn. vi. ap. 29. Id. 8vo. I38. n. I4.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 face round the eyes is white; the bill, having a black point, with the cere, and the feet, are bluifh; the claws are black; the head is furmounted with a confiderable protuberance behind; the fhoulders are furnifhed with an elevated ridge of loofe afh coloured feathers, into which the head is retracted when the animal fleeps.

## 5. Carrion Vulture.-5. Vultur Aura. 5.

Of a dufky black, or brown grey-colour, dafhed 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. I3.Vautour de Brefl. Buff. oif. i. 175. Pl. enl. 187.-Gallinazo. Ulloa, voy. ed. angl. 56. 196.Carrion Vulture. Sloan. jam. ii. 294. t. 254. Brown, jam. 47 1. 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. 99 1.-Urubu, Tzopilotl, Aura. Will. orn. 36. n. 2. Id. angl. 68. t. 3. Hernand. mex. $33^{1 .-S t r u n t-V o g e l ~ ? ~ K o l b . ~ c a p . ~ i i . ~ 136 .-C o r v u s ~ f y l v a t i c u s . ~ B a r r e r e, ~ f r . ~ e q u . ~ 129 .-~}$ Carrion Crow. Sloan, jam. ii. 294.

Inhabits America, from Nova Scotia to Term del Fuego; and is found in New-years iflands. This fpecies is about the fame fize with the laft, weighing about four pounds and a half, though it varies in fize: The body is black, with an iridefcence of purplifh and green; the irides are mixed fafiron ycllow, and blaifh ; the head is fmall, and is covered with a naked wrinkly reddifh flsin, befet with black briftes; the noftrils are very large and pervious; the legs and fect are dirty flefh colour, with black claws. The Carrion Vulture is in a manner privileged in America, in confequence: of its ufefulncfs for deftroying ferpents, carrion, and the eggs of Alligators, and is often feen devouring the dead carcaffes of animals along with dogs, preferving the utmoft harmony with each other ; it has a moft offenfively fetid odour, and, when feized, it vomits up a quantity of moft intolerably ftinking ftuff. It is by no means flhy, from being feldom difturbed, and may be eafily tamed; it fleeps in flocks at night, in the higheft trees, or the fummits of rocks, keeping the wings difhevelled,
as if to fweeten them from the putrid odour of their daily banquet. When preffed with hunger it will fometimes attack living animals, efpecially fuch beafts as have any fore upon them.

## B. Black Carrion Vulture.-5. B.V. Aura niger.

Of a black colour, with brown wings, and an afh coloured bill. Molin. hift. nat. Chil. 235.
Id. ed. gal. 245 .
Vultur Jota. Lath. ind. orn. i. 4. n. 8. ₹. Syft. nat. ed. Gm. i. 247. n. 5. ß.
Inhabits Chili.-This variety is equally offenfive in its odour with the former ; it is extremely linzy, unlefs when teazed, and then emits a cry like that of a Moufe, but ftronger; it builds among rocks or on the ground, conftructing a neft of leaves and feathers, in which the female lays, for one brood, two whitifh eggs looking as if fullied with fmoke. When young it is entirely white, growing gradually darker with age, till almoft entirely black, except the bill ; the quill feathers, feet, and iri~ des, becoming only brown.
6. Cinercous Vulture.-6. Vultur cinereus. 6.

Of a blackih brown colour, with fomewhat afh coloured quill and tail feathers, the legs being covered with brown feathers.
V. cinereus. Lath. ind. orn, i. i. n. 2. Briff. av. i. 453 . n. i. Will. orn. 35 n. i. 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 Afh coloured Vulture. Lath. fyn. i. I4.

Of a blackifh colour. Lath. ind. orn. i. 1. n. 2. $\beta$.
Inhabits Europe.-This fecies meafures three feet fix inches in length, and feven feet nine inclies in the extent of the wings : The head, throat, and upper part of the neck, are covered with browry wool or down ; under the throat is a tuft of longifh feathers, refembling hairs, forming a kind of beard; the toes are yellow, with black claws. It moftly frequents, and builds its neft, in high mountains. The blacking variety of this fpecies is fometimes found, but is more rare than the other.
7. Maltefe Vulture.-7. Vultur fufcus. S.

Of a brown colour, with blackifh wing quills, the primaries being fpotted with brown, and having white tips; the tail quills are greyifh brown ; the feet are naked.
V. fufcus. Lath. ind. orn. i. 5. n. 1o. Briff. orn. i. 455. Id. 8vo. 130. n. 2.-Avoltajo Griffone, Cetti, uc. di fard. 3. G. 3.-Vautour de Malte. Buff. oif. i. 161. Pl. enl. 427 --Maltefe Vulture, Lath. fyn. i. is.

Inhabits Europe, efpecially the ifland of Malta.-This fpecies is between the fize of the Common and Turkey Pheafants: The head is covered with brown wool; the feathers on the fcrag are narrow; the bill is black; the feet are yellowifh, with dark coloured claws. This fpecies has a good: deal of refemblance to the Aquiline Vulture, or $V$. percnopterus, $\mathrm{N}^{\circ}$. 16 . infomuch that Dr Gmelin queftions whether it may not be a variety of that fpecies.

## 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. i6. n. ro.-Avoltojo nero. Cetti, uc. fand. 9. G. 9.

Inhabits Egypt and Sardinia.-This fpecies 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 face round the eyes, and the legs and feet down to the foes, are covered with white woolly down; the whole body is black, with brown quill and tail feathers; the tongue is fmooth at the edges; the firft two inches of the bill is ftraight, the fore part is longer and hooked ; the noftrils are round, and near a quarter of an inch in diameter. Dr Gmelin queftions whether this Vulture may not be merely a variety of the Aquiline fpecies,

## 9. Fulvous Vulture.-io. Vultur fulvus. in.

Of a reddifh grey, or tawny colour, on the upper parts of the body; the head, neck, and a collar round the neck, white; the quiil 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. io. Raj. fyn. 1o. n. 7. Will.
 fyn. i. 17 . Will. ed. ang. 67.n. $7 \cdot$

Inhabits the mountains of Perfia.-This fpecies is larger than the F. Aquila fulva, or Ring-tail Eagle : The head and neck are covered with thick woolly down; the bill is bluifh afh colour, having its bafe covered by a black cere, or naked fkin; the lower part of the neck is furrounded with feveral rows of long, narrow, briftly feathers, of a reddifh white colour ; on the middle of the breaft is a kind of pit, or hollow, covered with white down, and furrounded with long narrow reddifh feathers; the feathers on the lower parts of the body are white towards the bafe and reddifh 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 reddifh feathers; the feet are of a leaden colour, having black claws.

The wing quills are black, having their outer edges, except thofe of the two outermoft, of a hoary colour.
V. percnopterus. Gmel. it. iii. 364. t. 37. Borowk. 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. Whil orn. $6_{4}$. t. 4.-Alpine Vulture. Lath. fyn. i. 12. Id. fup. 3.

Inlabits Egypt, Irieftine, Syria, Caramania, Perfia, and the fouth of Europe.-The male is entirely white, hasing black quill feathers, all of which, except the two outermolt primaries of each wing, have their external weos edged with hoary. The femule is of a brown colour, having the quill fea1. itrs tugie like thefie of the male, eacept the four outermoit primaries, which are of a uniform co-
lour. The bill is black, its bafe being covered with a yeliow cere; a liquid nontur is conflantly ouzing from the noftrils; the legs and feet are naked.
B. Egyptian Aquiline Vulture.-II. $\beta$. V. Percnopterus aegyptius.

Of a reddifh-afl colour, fpotted with brown. Lath. ind. orn. i. 6. n. 3.. .
V. aegyptius. Briff. orn. i. 457.3 . Id. 8 vo. $13 \mathrm{r} .3 .-\mathrm{V}$. facer aegyptius. Aldr. av. i. 378 . t. p. 379.-Sacre egyptien. Bel. oif. IIo.t. p. ín. Buff. oif. i. 167.-Egyptian Vulture. Lath. fyn. i. I3.-Vautour Percnoptere. Bom. dict. hift. nat. in voc.

Inhabits with the former.-According to M. Bomare, this variety is particularly diftinguifhed from other Vultures by having a heart-fhaped brown blotch, bordered with a narrow white line, on the breaft or craw, juft below a ruff, of long ftiff feathers, which furrounds the lower part of the neck; the head and neck are naked and bluifh, fhining through a floort white down; the cere and bill are black, the point of the latter being white. The male is three feet three inches long, the female three feet eight ; the male eight feet in extent, the female nine.-Thefe two varieties are of great ufe in the Levant, infomuch that at Cairo in Egypt they are encouraged by having food laid down for them, becaufe, by devouring every kind of putrid animal fubftance, they prevent the difgufful and noxious eflluvia, which would otherwife be almoft intolerable in that hot country; and formerly it was made a capital crime, by the laws of the Egyptians, to kill one. In Paleftine they are likewife of great ufe by deftroying the vaft multitudes of mice which fwarm in the fields, and which, without their affiftance, would devour the whole fruits of the ground.

## 11. Crefted Vulture.-12. Vultur criftatus. 12.

Has a prominent creft on the head; the body is blackifh red, the breaft being redder; the legs and feet are naked.
V. criftatus. Briff. orn. 132. n. 6. Lath. ind. orn. i. 6. n. 13.-V. leporarius. Raj. fyn. Io. n. A.. 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. fyn. 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 confpicuoufly erected like horns, when the animal is perched, or on the ground, but, when flying, it is not vifible; the feet are yellow; the bill and claws are blackifh; the tail is long and ftraight. Dr Gmelin expreffes a doubt whether this animal fhould be confidered as a Vulture, or as an Eagle. It is found in the thickeft and moft folitary forefts, building its neft in the higheft trees, in which the female lays eggs of the colour of clayey water; it flies and runs with great fwiftnefs, and in both ways purfues hares, rabbits, the whelps of wolves, and young fawns, and even catches fifh.
12. Barbary Vulture.-13. Vultur barbarus. I3.

Of a brown dulky colour, the under parts of a brownifh 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. Io6. Lath. fyn. i. If. n. 6.

Inhabits Africa, efpecially the coaft of Barbary.-This feecies is about the fize of the Ring-tailed Eagle, Aquila fulvus: The bill is of a purplifh flefh colour, having a tuft of black feathers, like a beard, langing down from the lower mandible; the eye brows are red, and the irides of the eyes arc yeliow; the greatcr part of the head is covered with white woolly down; the front, cheeks, and orbits, are black ; the fcrag is covered with long, narrow, pointed, black feathers.

## 13. Pondicherry Vulture.-Vultur pondicerinus.

Of a black colour, having the head and neck almoft naked and of a fcarlet colour, with red flefhy caruncles at the fides of the neck. Lath, ind. orn. i. 7. 11. is.

Vautour royal de Pondichery. Sonner. voy. ii. I82. t. I04.-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 ftripes on the upper parts of the body; the head and neck are naked and reddiff; the quill and tail feathers are black. Lath ind. orn. i. 7. 11. I5.

Grand Vautour des indés. Somner. voy. ii. 183. t. io5.-Indian Vulture.' Lath. 「yn. fup. $\sigma$.
Inhabits the coafts of India.-This fpecies is about the fame fize with the laft; it is exceedingly roracious, and feeds on fifh and carrion; the bill is black; the head is covered with hairy down, the neck is entirely naked ; the breaft is covered with fhortened feathers, as if cut at the ends.

## 15. Gingi Vulture.-Valtur ginginianus.

Of a white colour with black quill feathers, the bill and feet being grey. Lath. ind. orn. i. 7 . n. í.
Vautour de Gingi. Sonner. voy. ii. i84.—Gingi Tulture. Lath. fyn. fup. 7.
Inhabits India, particularly the coaft of Coromandel.-This fpecies is about the fize of a Turkey, and is, in India, calied the Wild Turkey; the irides of the eyes are red.

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\text { II. FALCON.-2. FALCO. } 42 \text {. }
$$

The bill is hooked at the end, and is covered at its bafe with a cere, or naked membranous flin: The head is covered with feathers which lic clofe on each other: The tongue is frequencly cleft.
'Ilis is a rapacious race of animals, with are carmivorots, or feed almof entircly on animal food; they are not gregarious, and arc very quick-fighted ; they generaliy fy high, and build their nefts in
lofty places, often in inacceffible rocks, except a fmall number of fiecies which have thair nefts on the ground. In general the birds of this genus have the bills more crooked than thofe of Vultures; the noftrils are fmall, moftly oval, and are fituated in that part of the bill which is covered with the cere or naked fkin : The legs and feet are fcaly; the middle toe is flightly connected, as far as the firft joint, to the outmoft toe ; the claws are large, ftrong, very fharp, and much hooked. In general the females are larger than the males, which is fuppofed neceffary for piocuring the food of their young ones.

Dr Gmelin feparates this genus into four fubgenera, or leffer divifions, which are adopted in this edition, including the firft fpecies, which he makes a feparate fubdivifion on account of the great length of its legs, with his fecond fubgenus, becaufe it has fome 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 bafe is garnifhed with a beard of longifh extended briftles.

This divifion of the genus holds a middle rank between Vultures and Eagles, both in general appearance and manners; the head is not fo naked as in the Vultures, and the bill is not fo much hooked as that of the Eagle; like eagles they deftroy living animals, but frequently devour dead. carrion like vultures; accordingly, by fome authors they are ranked with the one, and by fome with the other genus.

1. Secretary.-I. F. Gypattus ferpentarius. 33.

Of a dark leaden colour, having a creft 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 reft.

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. Vofmaer, 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 ifles.-This animal is about three feet high when erect; its legs are remarkably long, like thofe of the Grallae, or Waders; the claws are fhort, black, and hooked, but not very fharp; the bill is black, with a white cere, and is not garnifhed with the briftly beard mentioned as one of the characters of the fubgenus; the fpace round the eyes is naked and orange coloured; the irides are pale afh coloured; the tail is rounded, having its two middle feathers much longer than the reft, and the tips of all its feathers are white; the creft at the back of the head may be erected and depreffed at pleafure. The Secretary is very readily made tame, and, in its natural ftate, 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 creft of long feathers; the under part of the body is variegated.
Vol. I.

Vultur Harpyja. Syft. nat. ed. xii. í2 I. n. 2.—Falco Harpyja. Syft. nat. ed. Gmel. 2 ir. n. $3 \ddagger$ Latỉ. ind. orn. i. 9. in. i.-Aquilla criftata braflienfis. Briff. av. i. 446. Raj. fyn. ı6i. Klein, av. 42. Will. orn. 32. t. 4. DJ. angl. 63.-Yzquauhtli. Hern. mex. 34. Raj. av. i6i. Will. orn. 299. DD. angl. 388.-Urutaurana. Marcgr. braf. 203.t. p. 204. Raj. av. p. 7.-Oronooko Eagle, Brown, jam. 471 .-Crefted Eagle. Will, orn. 63. t. 4.-Crefted Vulture. Lath. fyn. i. 6.

Inhabits the warmer parts of America.-This fpecies is almoft as large as a Sheep, and is faid to be able to cleave a man's fkull with one ftroke: The back, ncck, and creft, 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 inte a crown-like cref; under the maw the feathers are iong and white, and, when irritated, thefe hang down almott to the gromnd the under parts of the rings and tail are fpotted with black and white; the eye is provide with a membrana nictitans.

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 roeg. 15. n. ir.-Crowned Vultur. Lath. fyn. fup. 5.-- Falco Jacquini. Syft. nat. ed. Gmel. i. 25 I. n. 35.-Falco Harpyja criftatus. Lath. ind. orn. i. 9 . n. I. $\beta$.

Inhabits the mountains of New Granada, in Spanifh America.-This fpecies is fuppofed by Dr Gmelin to be near a kin to the Harpy, and by Mr Latham to be a variety of that fpecies, on whicl account the fame name is here given to both. When fitting, which it does in an erect pofture, it is two feet and a half high; the back, wings, greateft part of the neck, and the bill; are black; the head is of a reddifh afh colour, and is provided with a tuft of a fimilar colour compofed of numerous feathers near fix inches long; this tuft in general lies flat, but is erected into a crown or creft when the animal is irritated; the tail is long, and of a white colour, with tranfverfe black bands; the legs and feet are naked and yellow, with black claws. Though naturally fierce, this animal may be tamed when caught young.

Though ufing almoft the exact words employed by Dr Gmelin, Mr Latham reverfes the defcriptions of thefe two laft defcribed animals; adding, however, that the head of the former is of a dull or ruffet blue colour, and that the thighs of the latter are fotted with white.-T.

## 4. Tawny Baftard-Eagle.-4. F. Gypaetus ambuftus. 36 .

Of a pale tawny colour ; the bill has an extenfive cere, with naked fraps; the legs and feet are bluih.

Faico ambuftus. Sy̧f. nat. ed. Gmel. i. 252. n. 36.-Vultur ambuftus. Lath. ind. orn. i. 8. n. 18.-Tawny vulture. Brown, illuft. 2. t. I. Lath. fyn. i. 19.

Inhabits Falkland's iflands.-This fpecies is two feet four inches long: The bill is fhort, thick, and dulky; its bafe is covered with an ample cere or membrane, which is garnifhed with briftes, and the ftra?s, or fpaces between the bafe of the bill and the orbits on each fide, are naked; the chin is furnifhed with a beard of long thin feathers; the tail is dirty white, barred with brown; the feet are bluifh, and the claws are not much hooked.

Of a white colour ; the cere is bluilh; the orbits are naked and crimfon coloured; the wing coverts, and bafe of the tail, are black.
Faleo angolenfis. Syft. nat. ed. Gmel. i. 252. n. 37.-Vultur angolenfis. Lath. ind. orn. i. T. n. 17 .-Angola Vulture. Penn. wales. 228. t. r9. Lath. fyn. i. 18.

Inlabits 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 fpace of a crimfon colour, like raw flefh, and the irides are vellowifh; the breaft or maw is protuberant ; the legs and feet are fcaly and dirty white.
There is fome difference in the defrriptions of Dr Gmelin and Mr Lathan ; the former fays that the primary eoverts of the wings and the bafe of the tail are black, the outermoft coverts being fiputted with white, and the tail having a vhite tip; Mr Lathan informs us that the whole quill feathers of the tail, ánd its bafe, are black.- T T .
6. Bearded Baftard-Eagle.-6.F. Gypaetas barbatus. 38.

Of a whitifh fiery-red colour, brown on the back, having a black fripe above and below each eye.
Faleo barbatus. Syft. nat. ed. Gmel. i. 252. n. $3^{8 \text {.-Vultur barbatus. Syft. nat. ed. xii. i. it } 23 \text {. }}$ n. 6. Ger. orn. i. 49. t. 11. Bor. nat. ii. 64.-Vultur alpinus. Briff. 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. io. Will. orn. 33. t. 4. Aldr. orn. i. 216. t. p. 21 1.7. 219. Gefn. av. 199. Alb. av. ii. 2.-Laemmergeyer. Andrea, Brief aus der Schweitz. 195. t. 12. De-couv. ruff. ii. 385 . t. p. 387 .-Avoltoio barbato. Cett. uc. fard: 16.-Vulturine Eagle. Alb. ii t. 3.

## B. Golden Baftard-Eagle.-6. B. F. Gypactus barbatus aureus.

Of a reddifh colour, black on the back, the head and upper part of the neck being reddifh white, the quill and tail feathers brown.
 t. 78 1. Aldr. orn. i. 277 . f. p. 27 6. Briff. av. i. 45 8. 5. Id. 8vo. I32. Raj. av. 1o. 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. в.-Chefinut Vulture. Will. ed. angl. 66. n. 3.-Golden Vulture. Will. orn. ang. 67. 11. 5. t. 4. Lath. fyn. i. 18.
2. Perfian Baftard-Eagle.-6. \%. F. Gypaetus burbatus perficus.

Has a bluifh cere; the legs and feet, and the under parts of the body, are chefnut, mixed with white; and the tail is ath coloured.
Falco barbatus magnus. Syft. nat. ed. Cmel. i. 252. n. $3^{8 .}$. --Falco magnus. S. G. Gmelin, it. iii. $3^{65}$.t. $3^{8}$-Vultur barbatus perfieus. Lath. ind. orn. i. 4. n. 6. $\gamma$.

Inhabits the Alps; the varieties $\beta$. and $\%$ are found in the mountains of Perif.-This fecies is of great fize, being four feet long, and near ten feet in extent ; the bill is of an afh colour, mixed with
reddifh, it is fringed at the fides, and garnifhed underneath with ftiff black briftles, it is fraightifh and hooked at the end, which is furrowed on each fide; the noftrils are large, oval, and hid in ftrong black brifties; the feet are hairy down to the toes, having ftrong black claws, not much bent ; the wings have each twenty-eight bright afh coloured quill feathers, and the tail has twelve quills, which are afh coloured in the middle.

The feveral varieties of this fpecies build their nefts in the holes and caverns of inacceffible rocks, laying three or four eggs each brood ; they keep in fmall flocks in the higheft parts of the mountains, preying 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, thefe animals refembie the Vulture tribe ; but in other refpecis, fuch as their courage, preying on living animals, and by having the head and neck covered with feathers, they refemble the Eagles.
7. Cinereous Baftard-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. Brif. 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. 4 II.-White-tailed Eagle. Will. orn. angl. 61.-Cinereous Eagle. Penn. Brit. zool. i. n. 45. t. i8. Arct. zool. ii. 214. Lewin, brit. birds, i. t. 4. Lath. fyn. i. 33. n. 8. Id. fup. 11.-Braunfahler Adler. Frifch, t. 70.-Fifke Orn. Brunnick, n. 12.-Elo. hift. Kamtfchatk. 501.
Inhabits Europe, particularly Scotland and its iflands.-This feecies is about the fize of a Turkey, being two feet nine inches long; it feeds much on fifh, 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 thofe which dive for fifh, which it watches with great attention, and catches as they rife to the furface. The body and wings are cinereous, or afh coloured, mixed with brown; the head and neck are pale afh; the irides and bill pale yellow; the bafe of the bill is longifh ; the face between the noftrils and orbits is bluifh and almoft naked, being interfperfed with a few briftles; 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 ufe the fkins of this fpecies for cloathing, and either kill them with bows and arrows, or catch them in nets, or when ftupified by gorging themfelves with the fat of feals, which is left for that purpofe.

## 8. Plaintive Baftard-Eagle.-1 9. F. Gypaetus plancus. 45.

The hind head is crefted; the fides of the head and neck are naked; the breaft and upper parts of the body are barred with brown and white, the under parts being white; the tail is white, with black tranfverfe bands. Miller, illuft. t. 17. Cook, roy. ii. 134. t. 32 .

Falco plancus. Syft. nat. ed. Gmel. i. 257. n. 45.-Vultur plancus. Lath. ind. orn. i. 8. n. 19.م!aintive Eagic. 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 reafon it is placed in this intermediate fubdivifion : The bill is black, having the cere extending almoft to the point; that membrane, the fpace round the orbits, and the naked fides of the head, or ftraps, with the legs and feet, are orange coloured or yellow; the wings are brown; the tip of the tail and the claws are black.

The hind head nas a rufy cref ; the body is rufty, with a whitifh head, yellow feet and legs, and a rofe coloured cere. Jacquin, beytr. 17. n. 12.t. 4.
Falco Cheriway. Syft. nat. ed. Gmel. i. 254. n. 40 - Vultur Cherivay. Lath. ind. orn. i. 8. n. 20.-Cheriway Vulture. Lath. fyn. fup. 5 .

Inhabits the ifland of Aruba or Amba, on the coaft of Venazuela, in Spanilh America.-The creft is compofed of long in feathers, and it does not appear that the Cheriway has the power of erecting it ; the bill is blue ; the head and neck are yellowifh; the cere and naked orbits are rofe coloured; the quill featliers of the wings are very long and blackifh; the tail is longer than the wings, and is moftly blackifh, the two intermediate quill feathers being barred with white ; the bafe of the tail is white ; the claws are black.

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\text { ** E A G L E S.-A }-A I L \not \mathbb{E}^{\prime}
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Thefe are larger in fize than the animals of the fucceeding fubdivifion, and their legs are for the molt part rough.

The birds arranged under the fubdivifions of Eagles and Hawks, differ from the Baftard-eagles in "preying on living animals, while the laft prefer carrion and dead carcafes, like the Vultures: Eagles feed chiefly on fheep, hares, fquirrels, water-fowl of various kinds, ferpents, and fifh; whilft Hawks moftly prey on fmall birds and minute quadrupeds; both tly very high, fo as frequently to become invifible, and often remain fufpended in the air, hovering motionlefs on the wing in queft of prey, which they fee at a prodigious diftance, having the fenfe of vifion in a moft exquifite degree, and they pounce down upon their prey with incredible fwiftnefs, more like the effect of a projectile force than of voluntary motion : They moftly live entirely folitary, except in the breeding feafon; they are faid to abftain from preying on birds, efpecially domeftic fowls, during the hatching feafon, as if by agreement to allow thefe to make their nefts, to hatch, and to bring up their young ones; their gaftric juice is exceffively acrid, and they can abftain from food for a confiderable length of time, are very voracious, and are killed by eating bread; they vary confiderably in fize and external appearance, from age and difference of fex, which renders it very difficult to arrange them properly in fyftem, but in general the females are larger and ftronger than the males.

The fubdivifion into Eagles and Hawks is fcarcely legitimate, as the limits cannot be pointed out with any tolerable accuracy, it is however retained in this edition on the very refpectable authority of Dr Ginelin.-- T .

The cere is ruft coloured; the legs are covered with white wool, fpotted with black; the breaft is reddif, and the fides are barred with black.

Aquila afficana criftata. Brifi. av. i. 448. - Crowned Eagle. Edw. av. iii. 31. t. 224. Lath. Syn. i. $27 .-$ Ialco coronatus. Syf. nat. ed. Gm. i. 253 . n. I. Lath. ind. orn. i. in. n. 6.

Inhabits the eaft coaft of Guinea.-The general colour is brown, the under parts being white, with round black fots; the upper part of the tail is dark afh coloured, barred with black; the feathers on the crown of the head are longifh, and may be raifed or depreffed like a creft; the forehead and fpace round the eyes are whitifh; the irides are orange coloured; the bill is rufty; the toes are orange coloured, and the claws black.
2. Chilefe Eagle.-10. F. Aquila Tbarus. 4i.

The cere and legs are yellow; the body is blackin white; and the hind head is crefted.
Molin. hift. nat. chil. 234.
Is very common in Chili.-It is about the fize of a large Capon; the head is furnifhed with a creft of black feathers, of which the outer range is longer than the reft; the bill is whitifl ; the body of the male is whitifh, fpotted with black, while the female is fmaller and greyifh; the quill feathers of the wings and tail are tipt with black; the feet are fcaly, with very frong claws. This fpecies builds on very high trees, forming its neft of tender twigs, wool, hair, and feathers, and laying five eggs each brood; it feeds on poultry, and on the carcafes of dead animals, approaching in this circumflance to the manners of the Vultures and Baftard-eagles.

## 3. Common Eagle.-I r. F. Aquila Melanaetos. 2.

Has a yellow cere; the legs are fomewhat downy; the body is dark rufty brown, almoft blackifh, with yellow ftreaks.
Melanaetos, f. Aquila valeria. Gefn. av. 203. Aldr. orn. i. 197. f. p. 199. 200. Raj. av. 7. n. 4. Alb. av́. ii. 2. t. 2. Briff. av. i. 434.-Falco Melanaetos. Syit. nat. ed. Gmel. i. 254 . n. 2. Will. orn. 3o. t. 2. Klein, av. 4 I. n. 4. Id. ov. av. ı8. t. 5. f. I. Phil. tranf. lvii. 346. Ger. orn. i. 37. t. 3. Borowfk. nat. ii. 68. n. 3. Lath. ind. orn. i. ro. 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. zool. ii. n. 87. Brit. zool. i. n. 43. Lath. fyn. i. 28. fup. 8.

Inhabits Europe and North America.-This fpecies is two feet ten inches long: The exterior webs of the tail feathers are white with black fpots, the inner webs and the tips are blackifh; the thighs are dirty white, the toes yellowifh, and the claws black; the bill is of a horn colour verging to blue; the irides are chefnut coloured. The eggs, according to Klein, are dirty white, marbled with rufty clouds, which run together.

The cere, and fomewhat downy legs, are citron yellow; the back and brea? are brown; the head and back of the neck are yellowifh white with brown ftreaks; the wing quill feathers are black̉. Merrem, beyt. ii. 25. t. .7.
Inhabits the mountains of Dranfberg, near Goettingen.-Is about twenty-one inches long; the bill is bluifh grey, having the infide of the mouth and the tongue rofe coloured; the tongue is flefhy,
fomewhat horny at the edges, and farcely fplit at the point ; the noftrils are large, egg-fhaped, having fome black briftes placed near them; the irides are hoary, mixed with yellow; the fore-head is marked with brown femilunar fpots; the thighs are fhort, and covered with foft feathers, the fore part of the legs and feet being fomewhat downy, and having black claws; the tail is reddifh brown above, and dirty white below, having fix narrow black ftripes on each furface.

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\text { 5. Bald Eagle.-I 3, F. Aquila leucocepbala. } 3 .
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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. ir. 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. füp. 9. Catefb. carol. i. t. I.

Inhabits the northern parts of Europe, Afia, and America.-This fpecies is about three feet three inches long, weighing nine pounds, and, though fmall, has great fpirit; it builds in large decayed cyprefs or pine trees which hang over the fea, fometimes, as in Beerings ifle, on clifis near the fhore; it preys on lambs, fawns, pigs, and fifl, which laft it often takes from the Ofprey, purfuing that bird, when it has caught a fifh, till it drops its prey, which it catches with aftonifhing dexterity in the air while falling; and often attends fowlers and feizes the game they have fhot: The neft is very large, near fix 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 fometimes lay a fecond time in the fame neft before the firft brood is fully fledged. The colour of the body is a dark chocolate brown, with white head, neck, and tail ; the bill is yellow, and the irides white.
6. Ofprey.-14. F. Aquila Offfraga. 4.

The bill is bluilh; the cere and half downy legs are yellow ; the body is rufy brown; the inner edges of the tail quills are white.

Falco Oflifragus. Syft. nat. ed. Gm. i. 255. n. 4. Lath. ind. orn. i. 12. n. 7. Muller, n. 60. Borowflk. nat. ii. 69. n. 4.-Aquila Offifraga. Brif. orn. i. 125. n. 9. Klein, àv. 41. n. 5.-Aquila marina. Cetti, uc. fard. 28.-Offifraga. Gefn. av. 263. Aldr. orn. i. 222.t. p. 225. 228. Brunn. orn. i3.-Haliaetus, f. Offifraga. Raj. av. 7. n. 3.-Orfraye, Orfraie, Offirrague, or Grand Aigle de mer. Buff. oif. i. 112.t. 3. pl. enl. n. 112.415 -Ofprey or Sea Eagle. Will. orn. angl. 59.t. 1. Brit. zool. i. n. 44. t. 17. Arct. zool. ii. 194. n. 86. Lath. fyn. i. 30. n. 4. fup. 9. Lewin, brit. birds, i. t. I.

Inhabits the fea coafts of Europe, Afia, and America.-This fpecies is about the fize of a Turkey, being about three feet four inches long, but is larger confiderably in America and northern Afia than in Europe; it lives almoft entirely by catching fifh, but fometimes preys on fea-fowl, land birds, and young feals; 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 feathers are black-ith; the breaft and belly are brown, fpotted with white ; the tail is dufky, the interior edges of its quill feathers, the fhafts, and the, coverts being white; the legs are yellow, and have hardly any
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 fpecies.
7. Golden Eagle.-15. F. Aquila Cbryfä̈tos. 5.

The bill is bluifh, with a yellow cere; the legs are brownifh, or rufty yellow, and downy; the body is mixed brown and rufh colour; the tail is dufky brown or blackifh, clouded with afh colour at the bafe.
Falco Chryfaetos. Syft. nat. ed. Gm. i. 256. n. 5. Lath. ind. orn. i. 12. n. 8.-Aquila germana. Gefn. av. I68.-Aquila chryfaetos. Raj. av. 6. n. i. Aldr. orn. i. in r. f. p. if4. if 5 . Muller, n. 59. Kramer, 325 . Borowf. nat. ii. 66. t. 2. Gerin. orn. i. 36. t. 2.-Aquila aurea, f. Chryfatos. Briff. av. i. 43 I. n. 7.-Grand Aigle. Buff. oif. i. 76. pl. enl. 410 .-Gold Adler. Wirfing. voy. t. 45-Orn. Faun. fuec. n. 54.-Golden Eagle. Penn. Brit. zool. i. I6i. t. I6. Arct. zool. ii. 214. A. Pitf. mem. t. p. 182. Lewin, brit. birds. i. t. 2. Lath. fyn. i. 3 I. fup. 10.

Inhabits Europe and northern Afia, particularly the Uralian deferts, and fouthern mountains of Siberia.-This fpecies weighs twelve pounds, and meafures three feet long, and near feven feet and a half between the tips of the wings; but it is found of different fizes; the tail is white beneath, and black at the tip; the legs are covered with feathers down to the toes. In fine weather, this fpecies flies extremely high, but comes nearer to the earth before ftorms.

## 8. Tawny Eagle.-16. F. Aquila fulva. 6.

The cere is yellow ; the legs are downy and rufty brown; the back is brown; the tail has a white tranfverfe band.

Falco fulvus. Syft. nat. ed. Gm. i. 256. n. 6. Lath. ind. orn. i. 10. n. 4. Georg. voy. 164. Decouv. ruff. i. 89. ii. 142.—Aquila. Briff. av. i. 4 19. Aldr. orn. i. 17. Dodart, act. iii. 89. t. 49.Chryfaetos, f. Aquila fulva. Raj. av. 6. n. 2. Will. orn. 28. Ger. orn. i. 35. t. i.?-Aigle commun. Buff. oif. i. 86. pl. enl. 409 .-Black Eagle. Brit. zool. i. n. 43.-Ring-tailed Eagle. Will. orn. ang. 59. Lewin, brit. birds. i.t. 3. Id. i. t. I. (ov.) Lath. fyn. i. 32. n. 6. fup. 10.

The tail is white with a brown tip.
Falco canadenfis. Syft. nat, ed. x. 88. Id. ed. xii. 125 . n. 6. $\beta$. Id. ed. Gm. i. 256 . n. 6. ß. Lath. ind. orn. i. ı1. n. 4. ß.-Aquila americana. Ger. orn. i. 40.t. 7.-White-tailed Eagle. Edw. av. i.t. I. Lath. fyn. i. 32. n. 6. A. Voy. to hudf. bay. iii. 54. t. 2.

Thefe two varieties inhabit Europe, North America, and Northern Afia.-They build in lofty and inacceffible rocks; are of a very docile nature, and are trained for the chafe of hares, foxes, antelopes, and wolves, by feveral Tartar tribes, as is mentioned by Marco Polo and other travellers; and the quill feathers of their tails are in great efteem among the Tartars for mounting their arrows. The fore-head, between the eyes and noftrils, is naked; the breaft is marked with triangular white fpots; the legs are feathered down to the toes. "This fpecies fo nearly refembles the Common Eagle, No. 36. as to be fufpected, by Dr Gmelin, to be the female of that fpecies.

Of a white colour ; the back, wings, and tail, being durky brown; the tip of the tail is white; and the legs are yellow.
Falco leucegafter. Syft. nat. ed Gm. i. 257. n. 43. Lath. ind. orn. i. r3. 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 brownilh yellow colour ; the claws are black.

The cere is duflsy, and the feet yellow ; the body is brown, varied with ruft colour ; the wing and tail quills are dufky, with rufty fpots.
Faico japonenfis. Syft. nat. ed. Gm. i. 257. n. 44. Lath. ind. orn. i. 13. n. 10.-Japonefe Eagle, or Hawk. Lath. fyn. i. 33. n. 7. b.

Inhabits Japan.-This fpecies is fcarcely two feet long; the bill is narrow, blue at the bafe, blackifh at the tip, and yellowifh underneath ; the fore-head is buff coloured; the feathers on the reft of the head and on the body are brown with rufty tips; the chin is white, with black ftreaks, and furrounded with a femilunar black mark; the feathers on the breaft and belly are edged with yellowifh 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 dufky afh cos lour; the back, belly, wings, and tail, are black; the knees have a tranfverfe black band.

Falco americanus. Syft. nat. ed. Gm. i. 257: n. 46. Lath. ind. orn. i. 13. n. 12.-Black-cheeks ed Eagle. Lath. fyin. i. 35. n. ro. 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 blackifh, Blue colour.

## 12. White Eagle.-2 1. F. Aquila alba. 47.

## Is entirely white.

Falco albus. Syft. nat. ed. Gm. i. 257 . n. 47.-Falco cygneus. Lath. ind. orn. i. 14. n. 16. $\rightarrow$
Aquila alba. Briff. orn. i. $4^{24}$. n. 3. Id. $8^{\circ}$. i. 123. n. 3.-Aquila alba cygnea. Klein, av. $42 . n_{\text {a }}$
7.-White Eagle. Lath. fyn. i. 36. n. 12. Charl. onom. 63. n. 9.

Inhabits the Alps, and the borders of the Rhein.-This fpecies is about the fize of the Golden Eagle, $\mathrm{N}^{\circ} .40$. of which Dr Gmelin fufpects it may be only a variety.

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\text { 13. Louifiana Eagle.-22. F. Aquila candida. } 48 .
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Is entirely white, with black tips to the wings.
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Falco candidus. Syit. nat. ed. Gm. i. 258. n. 48. Lath. ind. orn. i. 14. n. 17,-White Eagle. Arct. zool. ii. 197. n. 90. Du Pratz, louif. ii. 75.-Louifiane white Eagle. Lath. fyn. i. 36. n. 13-

Inliabis Louifiana.-This very rare and beautiful fpecies is rather fmaller than the foregoing; it is in high eftimation among the native Americans, who ornament the Calumet, or Pipe of peace, with its wings.

## 14. Small Eagle.-23. F. Aquila naevia. 49.

The cere, and downy legs, are yellow; the body is of a rufty brown colour, fpotted: with white below the wings.
Falco naevius. Syft. nat. ed. Gm. i. 258. n. 49. Lath. ind. orn. i. 14. n. r8.-Aquila naevia. Brif. orn. 122. n. 4. Frifch. t. 71.-Petit Aigle. Buff. oif. i. 91.-Rough-footed Eagle. Char!.. onom. 63. n. 6. Lath. fyn. 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 bafe and tips ; the irides are yellow ; the claws are black. This fpecies lives chiefly on quadrupeds of the order of Glires.

The cere, and downy legs, are yellow ; the body is rufty brown on the upper, and fulf, 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. 4I. n. 6.-Planga, Clanga. Arif. hift. an. ix.-Morphnos, Clanga, Anataria. Will. orn. $6_{3}$. Raj. av. 7. n. 7.-Spotted Eagle. Lath. fyn. i. 38. n. 15.-Crying Eagle. Aref. zool. ii. 215. C.

Inhabits Europe, Afiatic Ruffia as far as Kamtfchatka, Arabia, and Perfia.-Is about two feet longz: The fcapulars and wing coverts are elegantly varied with oval white fpots, which are large on the greater coverts; the back is fpotted with buff colour ; the belly and breaft are ftreaked longitudinally with buff, or dull yellow; the bill is large and dufky; the claws are black; the tail is dark brown, tipt with dirty white ; the primary wing quill feathers are dulky, the ends of the greater ones.being white.

## 16. White-tailed Eagle.-25.F. Aquila albicauda. 5 I.

The cere, and naked legs, are yellow ; the head and neck are afh coloured, tinged with: chefriut ; the upper part of the body is dufky ruft colour, the under parts rufty and: blackifh ; the tail is white.
Falco albicaudus. Syft. nat. ed. Gm. i. 258. n. 5 I.-Falco hinnularius. Lath. ind. orn. i. :5. 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. Gefin. 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 yellowifh; the tips of the feathers are blackifh; the claws are black. Mr Latham fays that:
this feecies fometimes varies, the external edges of the tail quill feathers being brown in fome individuals.

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\text { 17. French Eagle.-26. F. Aquila gallica. } 52 .
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The bill is afh coloured; the legs are naked and yellowih; the body is brown grey; the under parts, in the male, being whitifh, with reddifh brown fpots.
Falco gallicus. Sytt. nat. ed. Gm. i. 259. n. 52. Lath. ind. orn. i. 15. n. 2I.-Falco hypoleucos. Decouv. ruff. iii. 303.-Aquila Pygargus. Briff. orn. 127. n. it. Jonft. av.4. t. 2. Belon. av. 103. f. p. i04. Borowik. nat. ii. 7x.-Albanella. Cetti, uc. fard. 3 I.-Blanche-queue. Hift. de Lyon. i. 205.-Jean-le-blanc. Buff. oif. i. 124. t. 4. pl. enl. 413. Lath. fyn.-i. 39. n. I7.

Inhabits Europe, but is chiefly found in France.-Is fomewhat lefs than the Common Eagle, No. 36. being about two feet and an inch long: The quill feathers of the tail are white, with tranfverfe brown ftreaks, brown tips, and brown edges; the claws are afh coloured. This fpecies builds on the ground, very feldom in trees, and has moftly three grey eggs each brood; it feeds for the moft part on mice, rats, and frogs.

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\text { 18. Antartic Eagle.-27. F. Aquila auftralis. } 53 \text {. }
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Of a brown colour, with a yellow cere, and black tail, fpotted at the tip with dirty white.

Falco auftralis. Syft. nat. ed. Gm. i. 259. n. 53. Lath. ind. orn. i. 16. n. 23.-Statenland Eagle. Lath. fyn. i. 4o. n. rg.

Inhabits Statenland.-Is about the fize of the Plaintive Baftard-eagle, $\mathrm{N}^{\circ}$. $\mathbf{3}^{2}$. being a little more than two feet long: The tail, according to Mr Latham, is yellowifh at the tip; its voice refembles 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, breaft, 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, $\mathbb{N}^{\circ} .40$. The tail is white at the bafe, the outer half being black; the bill and claws are black.

## 20. White-crowned Eagle.-29. F. Aquila leàcorypha. 55.

The cere is afh coloured, with a dufky bluifh tinge; the legs are half downy and whitifh; the body is clouded brown; the crown and chin have each a triangular white fpot.
Falco leucoryphus. Syf. nat. ed. Gin. i. 259. n. 55. Lath. ind. orn. i. 17. n. 27.-Aquila leu• corypha. Pallas, it. i. 454.-White-crowned Eagle. Lath. fyn. i. 42 , n. 23.

Inhabits the fouthern parts of Siberia, towards the Jaik and Ural.-It refembles the Ofprey, $N^{\circ} .39$. but is fomewhat larger: The wings are dirty black, the inner webs of their quill feathers being white; the tail is longifh, ftiff, 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.

2 1. Ruffian Eagle-30. F. Aquila Mogilnik. ${ }_{5}$ 6.
The cere is yellow; the legs are downy, and, with the reft of the body, are dark rufty
brown, the back being mixed with white.
Falco Mogilnik. Syft. 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. I i. b.-Ruffian Eagle. Lath. fyn. i. 43. n. 24 .

Inhabits the deferts of Ruffia, near the Don.-Is about the fize of the Tawny Eagle, No. $4^{1}$. 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 flight greyifh tranfverfe bands, and reddifh tips. This fpecies lives on murine quadrupeds and fmall birds.

## 22. Crefted Eagle.-31. F. Aquila criftata. 57.

The head is crefted ; the back, wings, and chin, are black; the belly is white; the tail has four parallel afh 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, fpotted 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. zool. ii. app. 529. t. I. Arct. zool. 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 yellowifh white, with a few fcattered brown ftreaks. Mr Latham fays that the tail is brown, with a white bafe and tip; and that it preys on partridges and other fmall birds.

## 24. Greenland Eagle.-F. Aquila grocnlandica.

The cere and legs are of a lead colour ; the body is brownih on the upper, and whitif, with longitudinal brown freaks, on the under parts.

Falco fufcus. Lath. ind. orn. i. 19. n. 33. B. Faun. groenl. ${ }^{56}$. n. 34. 日.-Grey Falcon. Crantz, groenl. i. 75. Egede, groenl. 62.-Durky Falcon. Arct. zool. ii. 220. E.—Greenland Falcon. Lath. fyn. fup. 88.

Inhabits Greenland and Iceland.-Mr Pennant defcribes this fpecies fomewhat differently from the character which is given from Mir Lathan's Index ornithologicus: The crown is brown, with irregular oblong white fpots; the fore-head is whitifh; the cheeks blackifh; the hind part of the head and the throat are white; the breaft and belly are yellowifh white, with longitudinal dufky ftreaks; the back is durky, tinged with blue, the ends of the feathers being lighter coloured, and is furinkled with a few white fpots, efpecially about the rump; the wings are of the fame 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 whitifh. It is of a fmall fize; lives on Ptarmigans, Aulss, and other birds, having frequent difputes with the Ravens, which moftly 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.

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\text { 25. Fierce Eagle.-33. F. Aquila ferox. } 59
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The cere is green; the upper part of the body is brown; the back, belly, and rump, are clear white, with chefnut coloured fpots; 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. ir.-Accipiter ferox. S. G. Gmel. nov. com. petrop. xv. 442. t. ıo.-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 black-ifh-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 juvanica. 60.

The cere and legs are yellow ; the body, thighs, and tail, which is white at the tip, are dulky red mixed with white.
Falco maritimus. Syft. nat. ed. Gm. i. 260. n. 60. Wurmb, in Lichtemb. magaz. des phyf. iv. 2. 6. Lath. ind. orn. i. 20. n. 35 -

Inhabits the fea coaft of Java.-This fpecies preys on fifh and carrion; it is four feet two inches. long, meafuring from the end of the bill to the tip of the tail, and is one foot five inches high, when ftanding : 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 ath coloured, and the under parts ruty; the upper parts of the wings are brown; the tail is afh coloured, barred with brown, as long as the body, and forked at the end.
Falco aegyptus. Syft. nat. ed. Gmel. i. 26I. n. 61.-Falco Forikahlii. Id. 263. n. 321. Lath. ind.
${ }_{i}$ ind. orn. i. 20. n. 36.-Falco cinereo-ferrugineus. Fork. faun. arab. i. x. et vi. 1.-Arabian Kite. Lath. fyn. fup. 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.

The cere is yellow; the tail is forked at the end; the body is rufty, and the head fomewhat whitened.

Falco Milvus. Syif. nat. ed. Gm. i. 261. n. 12. Faun. fuec. n. 57. Ger. orn. i. 62.t. 39. Borowfk. nat. ii. 72. n. 8. - Falco cauda forficata. Klein, av. 51.n. 13. Id. ov. 19.t. 6. f. 1.-Milvus. Gefn. av. 610. Aldrov. orn. 392. f. p. 368. Raj. av. 17.t. 25.—Milvus regalis. Brif. av. i. 4I4.t. 33.Milan. Wirfing. voy. t. 48.-Milan royal. Buff. oif. i. 197. t. 7. Pl. enl. 422.-Weiffar Milan. Gunth. neft. u. eyer. t. 63.?-Glada. Faun. fuec.n. 57.-Nibbio..Cetti, uc. fard. 57. Zinnan. uov. 82.t. 13. f. 73.-Hunergeyer. Wurmb, in Licht. magaz. der phyf. iv. 2. 6.-Kite, or Glead. Brit. zool. i. n. 53. Arct. zool. ii. 223 . H. Will. orn. ang. 74. t. 6. Alb. i. t. 4. Hayes, brit. birds. I. 5. Lewin, br. birds. i.t. 10. and t. 2. f. 3. (ov.) Lath. fyn. i. 61. n. 43 . fup. 17.
ß. Siberian Kite.-36. $\beta$. F. Aqu. Milvus fibiricus.
The crown of the head, and the throat, are chefnut coloured. S. G. Gmel. it. i. 147.

The cere is greenifh; the body is brownifl; the head, throat, and chin, are chefnut coloured.
Accipiter Korfclun. S. G. Gmel. nov. com. petrop. xv. 444. t. ri. a.-Ruffian Kite. Lath. fyn. i. 63 . n. 46 .

The back coverts are violet coloured, having the tip of each feather marked with a white fpot. Lepech. it. ii. 180. t. 2.
The feveral varieties of the Kite are found in Europe, Afia, and Africa.-They prey almoft on any thing that comes in their way, and are particularly deftructive to young pouiltry. When, in their flight, they fkim gently along, it is confidered as portending tempeftuous weather; when they foar very high, fine weather is expected; and when they are clanorous it is thought to foretell rain. They breed twice a year, once in the fummer of Europe, and a fecond time in the mild winter of Egypt and the Levant, laying ufually three roundifh eggs, which are whitifh, with dirty yellow fpots. They migrate from Afia to Europe about the end of April, and during fourteen days are feen croffing the Black Sea in immenfe multitudes; but are found in Britain at all feafons. The Kite is about two feet long, or a little more, and five feet in extent of the wings, weighing about forty-four ounces:The Ruffian variety, $\%$, which is found mofly about the Don, is only about twenty-one inches long; its bill is blackiin lead colour, with a greenifh cere; the circumference of the orbits is white; the tail
and wing quill feathers are black with dufky tips. The Jaic variety, $\delta$, which inhabits towards the Jaic and Ural, is hardly twenty inches long, of which the tail is twelve inches; its feathers are mofly tipt with white; its wing quills are marked with alternate ftreaks and fyots of white and cherry-red from the bafe to the middle, and of greenifh or bluifh black from the middle to the end; the tail quills have each two narrow yellow and white ftrcaks at the tips; the irides are yellow; the thighs are covered thickly with feathers; the claws are black.

## 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 browno ifh black; the head and under parts whitifh.
Falco ater. Syft. nat. ed. Gmel. i. 262. n. 62. Lath. ind. orn. i. 2 1. n. 38.-Milvus niger. Briff. orn. 117. n. 34.-Milan noir. Buff. oif. i.-203. Pl. enl. 472.-Schwarzer Milan. Gunth. neft. 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 logs are flender; the claws are black.
30. Auftian Kite.-38. F. Aquila aufiriaca. 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 duft colour, fpotted 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.-Auftrian Kite. Lath. fyn. i. 62. n. 45.
Inhabits the forefts of Auftria.-Is about the fame 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 hcad, breaft, and wings, are chefnut coloured; the tail is fmall, and but flightly forked; its quill feathers are ftriped with blackifh, and are white at the tips.

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\text { 31. Brafilian Kite:-39. F. Áquila bráfilienfis. } 64 .
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The legs are yellow; the body istreddifh, interfperies with white and yellow dots; the tail is variegated with brown and white.
Faico brafilienfis. Syft. nat. ed. Gmel. i. 262. n. 64. Lath. ind. orn. i. 2 2. n. 40.-Milvus brafilienfis. Raj. av. I7.n.6.-Circus braflienfis. Briff. orn. 116. n. 31.-Caracara. Buff. oif. i. 222,Brafilian Kite. Lath. fyn. i..63:n. 47.
Inhabits Brafil.-Is about the fize of the Kite: The breaft and belly are fometimes whitifh; the tail is about nine inches long; the bill, and long fharp claws, are blackifh; the eyes and irides are yellow.. This feecies is very deftructive to poultry.

The cere is dufky; the legs are yellowifh; the body is brown above and whitifh below; the tail is very long and much forked.

Falco furcatus. Syf. nat. ed. Gmel. i. 262. n. 25. Lath. ind. orn. i. 22. n. 41.-Falco peruvia nus. Klein, 2v. 5 I. n. 14.-Milvus carolinenfis. Briff. orn. in 8. n. 36.-Milan de la Caroline. Buff. oif. i. 22 1.-Hirundo maxima peruviana. Feuill. it. ii. 33.-Swallow-tailed Hawk, or Herring Hawk. Catefb. carol. i. 4.t. 4. Lawfon, carol. 138.-Swallow-tailed Falcon. Arct. zool. i. 210. n. Io8.t. x. Lath. fyn. i. 60. n. 42.

Inhabits Peru, and Carolina.-This fpecies lives on lizards, ferpents, and various infects, which laft it catches, like fivallows, when flying; it is about two feet long, but rather fmaller than the kite: The back has a purplifh and greenifh tinge; the head and neck :are white; the inner webs of the primary and fecondary wing quills are white towards the bafes, and the tertial wing quills are white; the bill is black, not much hooked, and is furrounded with briftles at its bafe; 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. Syft. nat. ed. Gm. i. ${ }^{263 .}$ n. 26. Lath. ind. orn. i. 17. n. 30. Borowht, nat. ii. 7 I. n. 6. Kolb. cap. ii. 137.-Haliaetos, f. Aquila marina. Briff. orn. 126. n. 10.-Falco cyanopus. Klein, ftem. 8. t. 8. f. 1. a. b. c.-Aigle de mer. Voy. en barb. i. 265. n. 4.-Morphnos, f. Clanga. Aldr. orn. i. 21 I. 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. fyn. I6. A. 3. Gerin. orn. i. 64. t. 40.-Fiik Gjoe. Leem. 234.-Fifhaar. Wirfing. voy. t. 47.-Blafot, Fifk-orn. Faun. fuec, n. 63 -Ofprey. Brit. zool. i. n. 46. Id. fol. 65 . t. A. i. Faun. scót. i. if. t. i. Arct. zool. ii. 199. n. 91. Letwin, brit. birds. i. t. 5. Id. i. t. I. f. 2. ov. Lath. fyn. i. 45 . n. 26. fup. I3.

## ß. Ruffian Balbuzard.-42. B. F. A. Haliaetos arundinacea.

The cere is afh coloured; the legs are pale; the body is brownifh grey above, and whitilh below; the tail is equal. S. G. Gmel. it. ii. $1 \sigma_{3}$.
\%. Carolina Balbuzard.-42. , F. A: Haliaetos carolinenfis.
The tail is uniformly brown ; the crown is black, orgrown, variegated with white; the' belly is white.

Falco pifcator antillarum, et Falco pifc. carolinenfis. Brifl. orn. 105. n. 14. 15.-Pifcator. Raj. av. !g. n. 2.-Faucon pecheur, de la caroline. Buff. oif. i. i42. -Fifhing Hawk. Catefb. carol. i. т. 2. Lawfon. 137. Bricknel, 173.-Carolina Ofprey. Lath. fyn. i. 46. n. 26. 1 .

The body is rufty 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. e.
Inhabits Eurnpe, Afia, and America; is found in the Ifle of Pines, in the South Ser, and at the Care of Good Hope.-How this bird, and the Ofprey, Aquila Ofifraga, $\mathrm{N}^{\circ}$. 39. have both received the
the fame Englifh names from fuch refpectable ornithologits as Mr Pennant and Mr Latham, is difficultly conceived; that they are very different fpecies is perfectly apparent, and açcordingly, in this edition, the name of Balbuzard, which is a corruption of Bald buzzard, is adopted from the Count de Buffon, for this fpecies. The feveral varieties build their nefts chiefly among reeds and other marfhy plants; they prey on water fowl, and on fifhes, chiefly large ones, and even dive into the water after them; fometimes they perifh in the attempt by fixing their talons into fifhes of fuch frength as to carry them under water. This fpecies is fcarcely two feet long; a brown bar defcends on each fide, from the region of the eyes to the root of the wings; the tail 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. Syft. nat. ed. Gm. i. 264. n. 65 . Briff. orn. ro4. n. i3. Lath. ind. orn. i. 19. n. 32.-Mansfeny. Raj. ar. 1g. n. i. Hift. antill. ii. 252. Buff. oif. i. 144. Lath. fyn. i. 47. n. 27.
-Inhabits the Weft India iflands.-This feecies is fcarcely bigger than a Hawk, but has much fronger legs and claws, and is allied to the Eagles in its general appearance and plumage; it preys on fimall birds and amphibious animals.

## 35. Chinefe Eagle.-44. F. Aquila finenfis. 66.

The cere and legs are yellow; the body is reddifh brown above, and yellowifh beneath.
Falco finenfis. Syft. nat. ed. Gm. i. 264. n. 66. Lath. ind. orn. i. I3. n. I3.-Chinefe Eagle. Lath. fyn. i. 35. n. if.t. 3.

Tnkabits India and China.-This fpecies is among the largeft of the divifion; the bill and claws are large and black; the irides are brown; the crown is dufky; the coverts and quill feathers of the wings and the tail are marked with a dulky band.
36. Cheela Eagle.-F. Aquila Checla.

Of a brown colour, and having a flight creft; the coverts of the wings are fpotted with white ; the rump is white, and the taii is marked with a broad white band. Lath.
Falco Cheela. Lath. ind. orn. i. i4. n. i4.-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 thofe fpecies of the genus Falco which are reckoned Eagles by Dr Gmelin. The body is Arongly made; the bill is blue, and the irides and legs are yellow.

The legs are yellow and half downy ; the body is brown above; and white beneath, the breaft being ftreaked; the tail quill feathers are filver grey, the external ones having five fcarcely vifible bands.
Falco afiaticus. Lath. ind. orn. i. 14. n. 15.-Afiatic Falcon. Lath. fyn. fup. $3^{\text {r. }}$
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Inhabits China.-This fpecies is placed among the Eagles for the fame reafons as the laft. It is twenty-one inches long, and refembles 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.

Of a white colour, with yellow legs and cere; the back claw is twice the length of the reft.

Falco novae-hollandiae. Syft. nat. ed. Gmel. i. 264. n. 69. Lath. ind. orn, i. 16. n. 22.-New. holland white Eagle. Lath. fyn. i. 40. n. 8.

Inhabits New-holland.-Is about twenty inches long; the bill and claws are black, and the fpace round the eyes is yellow.

## 39. Urubutinga.-48. F. Aquila Urubuiinga. 70.

The cere and legs are yellow; the body is brown; the wings are blackif, mixed with. afh colour; the tail is white, having a black tip, which is fpeckled with white.
Falco urubutinga. Syft. nat. ed. Gm. i. $26{ }_{5} \ldots$ n. 70. Lath. ind. orn. i. 22. n. 43.-Aquila brafilienfis. Brif. 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. I4r.

Inhabits Brafil.-Is about the fize of a half year old Goofe : The bill is large and black, and the: eyes are large.

The cere is bluifh; the legs yellow; the body chefnut coloured; the head, neck, and breaft, are white; all the feathers have a longitudinal brown ftreak 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. 2 I.-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 afli colourcd, with a yellow tip; the fix firft 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 blackih brown; the breaft is reddifh; the fhoulders 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. Syft. nat. ed. Gmel. i. 265. n. 72. Lath. ind. orn. i. 22. n. 42.-Equinoctial Engle. Lath. fyn. i. 43. n. 25.

Inlabits Cayenne. -Is about t.venty-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 tranfverie brown ftreaks.

## *** FALCONSANDHAWKS.-FALCONES.

The birds of this fubdivifion are lefs in fize than the former, and their legs are univerfally naked.

The limits between the Falcons and Hawks, and the Eagles, are by no means well afeertained, but, in compliance with the authority of $\operatorname{Dr}$ Gmelin, the fubdivifion is here preferved : It is extremely difficult, through the whole genus, to mark with accuracy the diftinctions of fpecies and varieties; as, befides the difference between the fexes of the fame fpecies, which is often very confuderable, and the various appearances the fame fpecies puts on at different periods of life, they are very apt to change their appearances, and the colours of the feathers, and even of the cere, in confequence of the influence of climate, and by difference in the manner of feeding; hybrid generation is likewife a fcrtile fource of variety through this genus, as well as in moft parts of the clafs: All thefe concurrent caufes of variation and obfcurity produce confiderable dubiety to the ornithologift, and nuft occafion the obfervations of different naturalifts to difagree ; but the following lift, it is hoped, will be found perhaps as.perfect as the nature of the fubject will admit.

The art of Falconiy, or of training Hawks and Falcons to the chace of Antelopes, Crares, Herons, Hares, Partridges, \&ic. which has been in all ages familiar among many of the Tartar and other nations, is, in Europe, entrufted to the care of particular people who have reduced it to a kind of fcience, being employed by the great to contribute to their amufement. Almoft every fpecies of the genus may be trained to this employment, though fome fipecies are more expert than others, and fome are better adapted to particular kinis of fport, or to the chace of particular kinds of game. On this fubject confult d'Efparon, Ars falconaria. Francof. I6I 7.

The Englifl names ufed in this genus may appear lefs fyftematic than in moft others, but in this I have chiefly followed the examples of Mr Latham and Mr Pennant, who have preferved very properly the ufual names employed in England, and have affixed names to the foreign fpecies as near as pofible to thofe of the Britifh kinds which they refemble the moft. In general thofe named Hawks are fmaller than fuch as are called Falcons, but this is not univerfally the cafe; perhaps it would have been better to have named them all Falcons, with a fpecific addition for each; but it is fometimes 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.

The legs are leaden coloured; the upper part of the body and the head are dufky brown, the fpace above the eyes being ftreaked with rutt colour, and the lower part of the body mixed brown and rufty; the tail is footted with white.
F. orientalis. Lath. ind. orn. i. 22. n. 44.-Oriental Hawk. Lath. fyn. i. 34. * n. 7. c.

Inhabits Japan.-Is ferenteen 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 boly; the plumage has a black ftreak in the middle of each feather; the fecondary coverts of the wings are fpotted with white.

The cere and legs are yellow; the forehead and rump are white; the body is rufty above, and rufly brown ftreaked with whitifh on the belly; the tail is brown, with five 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 bafe, and black at the tip; the lower coverts of the wings are dirty reddif white, waved with ruft colour; the wing quill feathers are tranfverfely freaked and tipt with black; the coverts of the tail are dotted. with white ; the chin, throat, and breaft are reddifh brown; the claws are black. Mr Latham adds. to this defription, that the under fides of the wings are whitifh waved with rufty, and that the nape: of the neck is whitilh.

## 3. Common Buzzard.-51. Falco Buteo. 15.

The cere and legs are yellow ; the body is brown, the belly being whitifh, with large: brown fpots. Scop. an. i. 15. n. 4.
F. Buteo. Lath. ind. orn. i. 23. n. 47 - - Buteo. Briff. orn. i16. 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 Geycr. Gunth. neft. t. 50.?-Quidfogel. Faun. fuec. n. $60 .-$ Pojana fecunda. Zinnan. 85. t. I.4. f. 56.-Buzzard. Brit. zool. i. 188. n. 54. t. 25. Arct. zool. ii. 207. n. 103.-Common Buzzard. Will. orn. ang. 70. Alb. av. i. t.. i. 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 duiky, and the claws black; the eggs are moftly of a bluifh white, with rufty brown fots; but are fometimes entirely whitifh. This animal lives on birds, reptiles, fmall quadrupeds, and infeets.

## 4. Greater Buzzard.-52, Falco gallinarius. 73 .

The cere and legs are yellow; the body is brown above, and reddifh on the under parts. with oval brown fpots; the tail is barred with brown.
F. Buteo major. Lath. ind. orn. i. 24. n. 47. $\gamma$-Circus major, Gros Buzard. Brif. orn. 1 14. n. 28.-Hunnerhabicht, Hunergeyer. Friich. av. t. 72.-Greater Buzzard. Lath. fyn. 1. 42.

Refembles the former, but the wings are more variegated.
F. Buteo varius. Lath. ind. orn. i. 24. n. 47. ס.-Circus varius. BriA. orn. in6.-Accipiter ftel. larius. Frifch. av. t. 73.-Spotted Buzzard. Lath. fyn. i. 49 .

Inhabits Europe.-Both of thefe are confidered as varieties of the Common Buzzard by Mr Latham; they meafure 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 jamaicenfis. 74.

The cere and legs are yellow; the body is of a brownilh buff or cream colour, the un.
der parts being fpotted 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 fliafts of the feathers on the back, and of the tail quills, are brown in the middle.

## 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 rult colour, having a tranfverfe dufky or black narrow bar near the end.
F. borealis. Lath. ind. orn. i. 25. n. 50.-American Buzzard. Lath. fyn. i. 50. n. 3 r.-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 dunky, or black; the chin is white, mixed with brown; the throat, belly, and. breaft are paler than the back, or almoft white, the breaft and belly being varied with long brown. longitudinal ftripes, as are the thighs ; the rump is white.

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\text { 7. Rufous Buzzard.-56. Falco rufus. } 77 .
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The legs are yellow; the body is rufous or ruddy, the upper parts having a brownifh tinge; the tail is afh coloured.
F. rufus. Lath. ind. orn. i. 25 . n. $5^{1}$.-Circus rufus. Brif. orn. 115. n. 30.-Harpage. Buff, oif. i. 217 . Pl. enl.,n. 460 .-Fifchgeyer, Brandgeyer. Frifch. av. t. $7^{8}$--Harpy Falcon. Lath. fyn. i. $5^{\text {I. n. }} 3^{2}$.

Inhabits France and Germany.-Frequents low places, efpecially near the banks of rivers, and preys on fifh: Is about twenty inches long; the bill and.claws are blackifh, and the irides are faffron coloured.

## 8. Speckled Buzzard. - 57. Falco variegatus. 78.

The legs are yellow; the head and neck are whitifh with rulty fots; the body is brown above and white beneath; the tail is dukky brown, with paler bands which crofs each other.
F. variegatus. Lath. ind. orn. i. 24. n. 48.-Speckled Buzzarḍ. Lath. fyn. i. 97. n. 83.-Buzzardet. Arct. zool. ii. 2 II. n. 109.

Inhabits North America.-Is fomewhat more than twelve inches long, and has a general refemblance to the Common Buzzard; perhaps it is fcarcely different from the following.

The legs are yellow; the body is white, with large brown fpots ; the tail is dulky, with freaks and fpecks of white.

Inhabits North America.-Dr Gimelin makes feparate fpécies of the two laft birds, but with a note that he fufpects them to be the fame: Mr Latham makes only one fpecies, and refers to both Dr Gmelin's as fynonymes; while Mr Pennant points out a fufficient difference to conftitute them feparate varicties. The former is only twelve, while the latter meafures fifteen inches long: They refemble the Common Buzzard in general appearance, but the legs of the latter are proportionably longer ; the bill and claws are blackifh or dufly: In the latter, the leffer 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 afh coloured; the tail is brown, with two dukky or afh coloured bars, and is tipt with white.
F. apivorus. Lath. ind. orn. i. 2 5. n. 52.-Buteo apivorus. Briff. orn. i. 4 1o. Raj. av. 16.Bondrée. Buff. oif, i. 208. Pl. enl. n. 420.-P'ojana. Zinnan. 84. t. 13. f. 75.-Slaghok. Faun. fuec. n. 65 .-Honey Buzzard. Brit. zool. i. n. 56. Arct. zool. 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.-Frofchgeyer. Kram. el. 331. n. 14.-Goiran. Belon, av. 101.-Mufe-hoeg, Mufe-baage. Brunnich. 5.

Inlabits Europe.-This fpecies lives on mice, fmall birds, reptiles, particularly lizards and frogs, and on infects, efpecially bees, from which laft circumftance it is named. It is almoft two fect long, and weighs very near two pounds: The eggs are of a rufty colour, with darker coloured fpots. A variety of this fpecies is fometimes found, in which the coloured bars and white tip of the tail are wanting.

The cere is greenilh; the body is brownilh 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. Gefn. av. 49. Aldroy. orn. i. 351.-Circus paluftris. Briff. orn. 115 . 2. 29.-Milvus aeruginofus. Aldrov. orn. i. 395. Raj. av. 17. Nozeman, nied. vog. t. 8. g.-Honsttjuf. Faun. fuec. n. 66.Bufard. Buff. oif. i. 218. t. 1o. Pl. enl. n. 424.-Faux perdrieux. Belon, av. 114.-Bozzagro. Cetti, uc. fard. 45- -Nibbio. Zinnan. 83. t. 13. f. 74.-Moor Buzzard. Brit. zool. n. 57. Arct. zool. ii. 225 . L. Lath. fyni. i. 53. n. 34. fup. 15. Lewin, brit. b. i. t. 8. Will. orn. ang. 75. t. 7. Albin, i.t. 3 .

Inhabits Europe-LLives much in marfey places, in which it builds its nef, and preys on aquatic birds, fifh, and rabbits. This pecies meafures twenty-one inches long, and weighs about twenty ounces:

* By the armpits is meare to exprefs, in one word, the fpace bclow the root of the wings anfwering to the hollow under the fhoulder 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 brownifh rufty, with the crown and chin yellowifh; and in a few the whole plumage is rufty brown without fpot or variegation. The legs are long, flender, and yellow; the cere is either black or greenifh; the eggs are whitifl with brownifh fpots, fometimes entirely brown.


## 12. Sclavonian Buzzard. - Falco fclavonicus.

The cere is yellow; the legs and feet, except the toes, are downy; the body is of a brick duft red colour, with black fpots; the head and neck verging towards whitifh. Lath. ind. orn. i. 26. n. 54. Kram. el. 329 . n. 10. It. pofeg. 29.

Inhabits Sclavonia and Croatia.-Is about the fize of a common Cock: The bill is of a bluifh black colour, having a yellow cere; the head, neck, and breaft are of an ochreous, or dirty yellowifh, white, with longitudinal black freaks or fpots; the belly, efpecially its flanks, are black, fometimes only fpotted with black; the wing quills are blackifh, the primaries being broad at the origin of their webs, and growing narrow at the extremities; the fecondaries are brown with black bands; the wing coverts are variegated with dull red and black fpots; the tail is white on its farther half, growing brown at the end, and edged with dull red, fome individuals having five blackin, bands; the rump and ventlet are whitifh, with a few brown and dull red fots; the legs are clothed with dull red plumage, which is irregularly ftreaked and fpotted with black; the feet are yellow, and the irides are blackifh. After giving this minute defcription, Mr Latham expreffes a doubt that this birl may on $=$ ly be a variety of the Moor Buzzard.

## 13. Croatian Buzzard. - Falco marginatus.

The cere is bluifh; the upper part of the body is variegated aith brown and rufty, the lower parts being rufty with irregularly oval trown fpots; the tail quills are barred with blackifh, and edged on each fide with white. Lath. ind. orn. i. 26. n1. 55. It. pofegan. 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 difpofed brown fpots of a fomewhat oval flape, each of the feathers being ruft coloured, having the fhank and a fmall part of the web on each fide brown; the whole quill feathers of the wings are brown, with feveral bands of a darker tint, and rufty white at the tips; the upper fide of the tail is brown, the quill feathers having each four broad bars of blackifh brown, and edged on each fide with white; the tip of the tail is white; its under fide is whitifh, with bands of a clearer white; the legs and feet are yellow.

Of a brown colour on the upper parts; the under parts are whitifh yellow, having a yellow fpot on the breatt; the tail quills have each four dull red bars. Lath. ind. orn. i. 27. n. 56. It. pofegan. 29.

Inhabits Sclavonia.-The bill is black; the legs are yellow; the head is whitifh yellow, the cheeks being rufty; the upper parts of the body are brown, the tips of the wing covert feathers being whitifh; the under parts of the body are whitifh yellow, with a rufty yellow irregularly fhaped fpot 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 brickduft-red bars on each.

### 1.5. Java Buzzard.-6 1. Falco javanicus. 80.

The cere is black, with a yellow middle; the legs are yellow; the head, neck, and breaft, are chefnut coloured; the back is brown.
F. javanicus. Lath. ind. orn. i. 27. n. 58. Wurmb, in Lichterib. magaz. iv. 2. 8.

Inhabits the coaft of Java, and lives on fifh.-This bird is here called a Buzzard, becaufe placed, both by Dr Gmelin and Mr Latham, amid thofe feecies to which that name is given by the latter in his fynopfis.

The cere and legs are bluif; the body is of a brownilh afh colour, mixed with whitifh, on the upper part; the eye brows are white with brown fpots.
F. Buteo cinereus. Lath. ind. orn. i. 24. n. 47. $\beta$.-F. freti hudfonis. Brif. orn. 103. n. Io.Faucon de la baye d'hudfon. Buff. oif. i. 223.-Afh coloured Buzzard. Lath. fyn. i. 55. n. 35. Edw. av. t. 5.3.
Inhabits the country about Hudfon's Bay in North America.-This bird refembles the Common Buzzard, but is larger, and is probably only a variety of that fpecies: It preys much on partridges. The upper furface of the tail is cinereous brown, with tranfverfe grey ftripes; the under furface is cinereous, with white fripes; the irides are yellow; over each eye is a white line, called the eye-brow in the character for fhortnefs, which is fpotted with brown.
17. Streaked Buzzard.-63. Falco lineatus. 82.

The cere and legs are yellow; the upper paits of the body are dufky brown; the under parts are reddifh with white and pale rufty ftreaks; the tail quills are dufky brown, with dirty white tips, and having feven dirty white tranfverfe bars.
F. lineatus. Lath. ind, orn. i. 27. 11. 59.-Red-fhouldered Falcon. Arct. zool. ii. 206. n. 102.-Parred-breafted Buzzard. Lath. fyn. i. 56. n. $3^{6 .}$
Inhabits Long Ifland in North America.-The bill is flender and dufky; the legs are flender, with black claws; the head and neck are yellowifh white, longitudinally ftreaked with durky; the fides of the back are rufty; the lefier corerts of the wings are rufty with black fpots; the wing quill feathers are black with white fpots; the breaft and belly are pale reddifh tawny, the former ftreaked longitudinaily with black, the latter tranfverfely with deep tawny. This fpecies is about twenty-two inches long.

## 18. Leverian Falcon.-55. Falco leverianus. 7 б.

The legs are yellow; the head is variegated with alternate brown and white Areaks; the body is brown above, and white below; the wings are dark brown.
F. Ieverianus. Lath. ind. orn. i. 18. n. 3 I.-Leverian Falcon. Aret. zool. ii. 206. n. roi. Lath. fyn. fup. 3 .I.

Inhabits Carolina.-Is about the fize of the Common Buzzard: The bill is durky, and much hooked ; the ends of the feathers on the upper part of the body have each a large white fot ; the outer quill feathers of the tail have each nine white and nine dufky tranfverfe bars, the bars of the middle tail quills being alternately dufky and afh coloured, and all of them are tipt with white; the wings reach beyond the end of the tail.
19. Plain Falcon.-64. Falco olfoletus. 83.

Of a dark brown colour, fpotted flightly with white on the under parts of the body; the middle tail quills are plain brown, the inner webs of the reft being mottled with white, and their exterior webs and ends flightly edged with white.
F. obfoletus. Lath. ind. orn. i. 28. n. 61.-Plain Falcors. Arct. zool. ii. 208. n. I04. Lath. fyn. fup. 30 .

Inhabits near Hudfon's Bay.-Is two feet long; the head is dufly, the nape being fpotted with: white ; the throat, breaft, belly, and thighs are flightly fpotted with white; the bill is black.

The cere, eye-lids, and legs, are yellow ; the back is waved with afh colour and white; the throat, under fide of the neck and breaft, are pure white, and a white collar al. moft furrounds the neck. Faun. fuec. n. 56 .
F. rufticolus. Lath. ind. orn. i. 28. n. 6o. 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 ftreaked longitudinally with black and white; the cheeks are whitifh; the belly is white, with a few fmall dufky heart-fhaped fpots; the tail has twelve or thirteen tranfverfe bars, alternately whitiff and dufly; the exterior webs of the primary wing quill feathers are dufky; the claws are black.

The cere and legs are yellow; the body is blackifh brown, the under parts being fpot. ted or ftreaked with dull red; the wings and tail are fpotted with grey.
F. novae-zelandiae. Lath. ind. orn. i. 29. n. 62.-New-zealand Falcon. Lath. fynn.i. 57. n. $3^{800}$ t. 4. fem.

Inhabits New-zealand.-The fpace round the eyes is naked and bluifh in the male, but of a yellow colour in the female. The defcription given by Mr Latham differs from that given above from Dr Gmelin, in faying that the body is of a rufty brown colour. The male is eighteen inches long, the female twenty-three : In both the bill is blue, with a black tip, and is hooked only at the end: In the female the tail is marked with feveral tranfverfe white bars, while that of the male is rather YoL. I.
fpotted. The young birds are lefs or more variegated with white, and in fome the tail wants the bars.

## 22. Gofhawk.-67. Falco palumibarius. 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. 5 1. Aldr. orn. i. 342. f. p. 343. Raj. av. 18. n. 1.-Afterias. Aldr. orn. i. 336. t. 340. 341.-Aftur. Briff. orn. 91. 1. 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 gefperberter falk, Groffer gepfeilter falk. Frifch. av. t. 82. (male) 8 I (female). Falck, it. iii. t. 2 r.-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 fpecies is a great enemy to poultry, and is the beft of all the genus for Falconry. It is about thirty-two inches long; 'the bill is blue with a black tip; the iricles are yellow; the head is brown; the whole under parts of the body are white, waved with black; the tail is afh coloured, with a white tip, and is longer than to the tips of the winge; the claws are black: The eggs are bluifh 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 Kamtfchatka a variety is found entirely white.

The legs are blue; the head and neck are of a bluilh white; the back and wings are dark afh colour ; the throat, breaft, and belly, are whitifh.
F. cayennenfis. Lath. ind. orn, i. 28. n. 63.-Petit Autour de Cayenne. Buff. oif. i. 237. PI. 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 ftreaked with black; the tail has four or five alternate black and white tranfverfe bars, and is white at the tip.

The cere and legs are yellow; the bill is blackifh; the body is afh coloured above and white below; the inner webs of the wing quills are afh coloured, and their ends white.
F. macrourus. Lath. ind. orn. i. 29. n. 64.-Aćcipiter 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. 4 I.

Inhabits Ruffia.-Is about the fize of the Lanner, being one foot feven inches long, of which the tail meafures nine inches; the bill is black, with a green bafe.

## 25. Gentil Falcon.-70. Falco gentilis. 13.

The cere and legs are yellow ; the body is afh coloured, with brown fpots; the tail has four or five broad blackif bands. Faun. fucc. n. 58. Scopol. an. i. 15.
F. gentilis. Lath. ind. orn. i. 29. n. 66. Gefn. av. 71. Aldr. orn. i. 48 r . Briff. av. i. 339.Falco montanus. Raj. av. 13.-Gentil Falcon. Brit. zool. i. n. 50. t. 21. 22. Arct. zool. ii. 203. n. 98. Albin. av. ii. 4. t. 6. Will.: orn. angl. 79. Lewin, brit. b. i. t. II. Lath. fyn. i. 64. n. 48. fup. 17.
Inhabits the higher mountains of Europe, North Ameriea, and the country on the Wolga.-Lives much on partridges: This fpecies is rather larger than the Gofhawk; but thofe found in America are larger than thofe of Europe, being as far as two feet two inches long: The bill is dufky, or leaden coloured; the irides are yellow; the head and upper fide of the neck are light rufty, with black ftreaks; the whole under part of the body is white, with dufky heart-fhaped fpots; the tail is dotted with white; the claws are black.

## 26. Common Falcon.-71. Falco communis 86.

The bill is bluifh afh coloured, with a yellow cere; the legs and irides are yellow; the body is brown, the plumage being edged with rufty; the tail is barred tranfveriely with darker brown.
F. communis. Lath. ind. orn. i. 30. n. 67.-Accipiter fufcus, Schwarzbrauner Falk. Frifch, av. t. 74.-Falco. Briff. orn. 92. n. 4.-Faucon. Buff. oif. i. 249.—Falcone. Cett. uc. fard. 36.Common Falcon. Lath. fyn. i. 65. n. 49,-
Inhabits Europe, Afia, and America.-This fíecies is fubject to great variety from age, fex, climate, and other circumftances; the beft marked varieties are enumerated in the following lift.

## B. Yearling Falcon.-71. $\beta$. F. communis hornotinus.

Has an afh coloured tinge. Briff. orn. 93. n. 4. A. Lath. ind. orn. i. 30. n. 67. $\beta$.
Faucon fors. Buff. oif. i. t. I5. 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 afl coloured.

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\gamma . \text { Haggard Falcon:-7ı: } \beta . \text { F. communis gibbofus. }
$$

The back is fomewhat hunched. Raj. av. i4. n.6. Briff. orn. 93. n. 4. в. Lath. ind. orn. i : 30.n. $67 . \%$

Faucon haggard, Faucon boffu. Buff: oif. i. 254. t. i6. Pl. enl. n. 47 I.-Haggard Falcon. Wiil. orn. angl. 80. Lath. fyn. i. 66. n. 49. в.

This is an aged Common Falcon ; the neck is fhortened, and finks down between the fhoulders, giving an appearance as if the back were hunched, from which circumftance the name is derived.

## ס. White-headed Falcon.—7r. ס. F. communis-leucocephalus.

The head, neck, and breaft, are white, with fmall brown fpots. Brif. orn. 93. n. 4. c. Lath. ind. orn. i. 3 . n. 67 . $\delta$.

Rauh-fufs geyer, Gelbraurner geyer. Frifch, av. t. 75.-White-headed Falcon. Lath. fyn. i. 66. n. 49. c.

Is entirely white, with hardly vifible yellow fpots. Raj. av. 14. n. 7. Briff. orn. 94. n. 4. B. Lath. ind. orn. i. 31. n. 67 . .

Weiffer falk, Weiffer geyer. Frifch, av. t. 80.-White Falcon. Will. orn. 8o. n. 7. Lath. fyn. i. 66. n. 49. D.

This variety is found in China.

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n. Spot-winged Falcon.-71.n,F.communis naevius.
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The wings are fpotted.
F. maculatus. Brif. orn. 95, n. 4. F. Lath. ind. orn. i. 3r. n. 670 y.-Spotted Falcon. Edw. av, i. t. 3.-Spotted-winged Falcon. Lath. fyn. i. 68. n. 49. F.

Is found in Hudfon's Bay.-Mr Latham exprefles a doubt whether the variety referred to in Ede ward's and his own fynopfis of birds be the fame with the one enumerated by Gmelin : He likewife refers to the fame fynonimes a third variety of the Peregrine Falcon. Ind. orn. i. 33. n. $72 . \%$.

The upper part of the body is brown, with fpots of a darker fhade; the under parts are white, with brown fpots, thofe on the breaft being fharp pointed. Briff. orn. 95. n. 4. c. Lath. inde orn. i. $3^{\text {I. }}$ n. 67. 9.

Braunfahler geyer. Fricll. av. t. 76 .-Brown Falcon. Lath. fyn. i. 68. n. 49. G.

Is fpotted with red and black. Brif. orn. 96. n. 4. н.
F. rubens. Raj. av. I4. n. io. Lath, ind. orn. i. 3 1. n. 67. r.-Red Falcon. Will. orn. 81. no 10. Lath. fyn. i. 69. n. 49. H.

The body is of a reddif tawny on the under parts.
F. ruber indicus. Lrifi. orn. g6. n. 4. I. Raj. av. 14. n. ir. Lath. ind. orn. i. 31. n. 67. \%, 一 Red Endian Falcon. Will. orn. 81, t. 9. Lath. fyn. i. 69. n. 49. I.
Is found in India.- Is of a brown afl colcur on the upper parts of the body; the quill feathers of the taill have black and afla coloured curved fripes or bars.

The breaft is yellow, with rufty fpots; the extremities of the wings are fpoted with white.
F. italicus. Jonft. av. 19. Briff. orn. 97. n. 4. K. Lath. ind. orn. i. 32. n. 67. ^.-Italian Falcon. Lath. fyn. i. 70. n. 49. к.
The head and neck of this variety, according to Mr Latham, are tawny red with rufty ftrcaks, and the breaft is tawny, with afl coloured minute dots.

$$
\mu . \text { Arctic Falcon.-7I. } \mu . \text { F. communis arcitcus. }
$$

This variety is not defcribed.
F. iflandus. Brif. orn. 97. n. 4. L.-Iceland Falcon. Lath. fyn. i. 70. n. 49. L.
'This laft variety is omitted in Mr Latham's index, though enumerated in his fynopfis, as he probably confiders it to be the fame with-one or other of the varieties of the following fpecies.

$$
\text { 27. Iceland Falcon.-72. Falco illandus. } 87 .
$$

The cere and legs are yellow; the body is brown above, its lower parts being white with black heart-haped fpots; the tail is barred with white. Brunn. orn. bor. 2. n. g.

Of a white colour, the upper parts being marked with minute black heart-fhaped fpots; the two middle tail quills are indiftinctly barred with blackifh. Brunn. orn. bor. 2. n. 7.

Of a white colour, having large black heart-fhaped fpots; all the tail feathers are barred with. black. Brunn. orn. bor. 2. n. 8.

Inhabits Iceland.-This fecies meafures one foot nine inches long: The head is white, mixed with rufty; the back is dulky, each feather being whitifh, with brown ftreaks, and edged with white; the tail is rounded at the end, and has about fourteen tranfverfe bars, alternately brown and white; the claws are black, the back claw being remarkably long. Mr Latham refers the firf variety to the Brown Gyrfalcon, and the other two to the White Gyrfalcort, which will be defcribed afterwards.

## 28. Barbary Falcon.-73. Falco barbarus. 8.

The cere and legs are yellow; the body is of a bluifh colour variegated with brown fpots, the breaft having no fpots; the tail is barred.
F. barbarus. Latll. ind. orn. i. 33. n. 71.-F. barbaricus. Brif. orn. 99. n. 6. A.-F. tunetanus. Aldr. av. i. 483 . Raj, av. 14. n. g.-Barbary Falcon. Will. orn. 8 I. Albin, av. iii. t. 2. Lath. fyn. i. 72 . n. 5 I-

Inhabits Barbary.-Is about feventeen inches long, and refembles the Lanner both in fize and co-lour; Dr Gmelin and Mr Latham fufpect 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, fpotted; the breaft is yeilowifh white, verging towards blue; the belly is marked with oblong black foots; the tail has feven. brown bars.

## 29. Peregrine Falcon.-74. Falco peregrinus. 88.

The cere and legs are yellow; the body is afti coloured above, with brown bars, the under parts being dull reddifh white with blackifh lines; the tail is dotted with white:
F. peregrinus. Raj. av. i3. n. i. 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. zool. i. n. 48. t. 20. Arct. zool. ii. 202. n. 97. Lewin, brit. b. i. t. 12. Lath. fyn. i. 73. n. 52; fup. 18. Will. orn. 76. t. 8.

The wings are rufous; the toes are remarkably long.
F. tartarius. Briff. orn. roo. n. 6. в. Lath. ind. orn. i. 33. n. 72: B.-Faucon de Tartarie, or de Barbarie. Bellon, oif. i16.-Tartarian Falcon. Lath. fyn. i. 73. n. 52. A.

Inhabits Europe and the north of Afia and America.-This fpecies-is migratory, and it is fufpected, by Dr Gmelin, that it may only differ from the Gentil Falcon, already defcribed, in conforience of being of a different age. To the above two varieties of the Peregrine, Mr Latham adds a third, Ind. orn. i. 33. n. $7^{2} . \gamma$ which feems to be the fame already defcribed as a variety of the Common Falcon, under the name of Spot-winged, F. No. II4. efpecially as the fame fynonimes are referred to in both cafes.
30. Variegated Falcon.-75. Falco verficolor. 89.

The cere is yellow; the head and upper parts of the body are white, with light reddifh. brown fpots; the under parts are white, the breaft being marked with a few rufty fpots.
F. verficolor. Lath. ind. orn. i. 33. n. 73.-Spotted Falcon. Brit. zool. n. 55. t. 26. Lewin, brit. b. i. t. 13. Lath. fyn. i. 74. n. 53.

Inhabits England:-Is about the fize of the Common Buzzard : The bill is black; the wings are dulky, and barred with afh 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 ftrong.

## 31. Booted Falcon.-76: Falco pennatus. 90.

The cere and legs, which are feathered to the toes, are yellow; the body is blackifi brown above, varied with dirty grey; the under parts are yellowifh brown, with blackifh longitudinal ftreaks.
F. pennatus. Lath. ind. orn. i. ig. n. 34.-F. pedibus pennatis. Briff: orn. i20.-Faucon Pata. Priff. 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, meafuring a little more than nineteen inches long; the bill is biackifh ; the head and fcrag, or back of the neck, are tawny grey, with blackifh lines; the eye-lids are yellow ; the tail is brown, fpotted with white at the edges, grey at the point, and blackifh a little higher up; the claws are black.

## 32. Chocolate Falcon.-77. Falio Spadictus. 91.

The cere is yellow; the whole body is a deep bay or chocolate colour, in fome parts tinged with rully; the primary wing quills are black, their exterior webs, towards the lower end, being pure white; the legs, feet, and toes, are feathered.
F. fpadiceus. Forfter, phil. tranf. Ixii. 281. Amer. catal. p. 9. Lath. ind. orn. i. 27. 11. 57.Chocolate Falcon. Forfter, loc. cit.-Chocolate-coloured Falcon. Arct. zool. ii. 201. n. 94. t. g. f. 2.-Bay Falcon. Lath. fyn. i. 54. n. 34. A.-Placentia Falcon. Lath. fyn. i. 76. n. 57 . fup. 19.
$\beta$. 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 fpecies preys much on birds of the duck genus; it fits on a rock by the fide of the water, watches their rife from diving, and inftantly pounces on them. It is about one foot ten inches long; the bill is black; the five outmoft tail quills have their exterior webs dufky, and their inner webs blotched with black and white; the two middle tail quills are varied with black and afh colour ; the white edges of the wing quill feathers, mentioned in the character, form a diftinct white fhield; the wings reach to the end of the tail ; the toes are remarkably fhort.

The cere, and feathered legs, are yellow; the body is brown, marked on the back - fcrag, fcapulars, and tail coverts, with oblique, black, and dirty white bars; the un--der parts are fparingly marked with white and yellowifh fpots; the tail is barred with afh 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. $5^{8 .}$

Inhabits Hudfon's Bay and Newfoundland.-Is one foot nine inches long: The head is deep brown, with a fhort dulky bill; the legs are clothed with feathers to the toes, which are very fhort and yellow.
34. Sacre. -79. Falco facer. 93.

The cere and legs are blue; the back, breaft, and firft coverts of the wings, are fpotted with brown; the tail is marked with kidney fhaped fpots.
F. facer. Briff. orn. 98. n. 4. M. Raj. av. 13. n. 2.-Sacre. Wiil, otn. 77. Buf. oif. i. 246. t. 14. Lath. fyn. i. 77. n. 59.

Inhabits Europe and Tartary. - In Tartary this feecies 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.

## B. American Sacre-79. B. F. facer americanus.

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. $75 . \beta$.-Speckled partridge hawk, from hudfon's bay. Forfter, phil. tranf. lxii. 382.-Sacre. Arct. zool. ii. 202. n. 96.-American Sacre. Lath. fyno. i. 78. n. 59. A. fup. 20.

Inhabits Hudfon's Bay and other parts of North America.-Weighs two pounds and a half, and. meafures two feet long: It preys much on the White Groufe. The female lays two eggs, in defert places, in April or May, and the young are able to fly about the middle of June. The head is duiky brown, with a dufky bill, which is toothed on the upper mandible; the back is dufky brown; the fcapulars, coverts, and primary wing quills are deep brown, elegantly barred tranfverfely with whites. the thighs are covered with very long brown feathers, fpotted with white; the fore parts of the legs: are feathered almoft to the feet ; the cere and legs are bluifh.

The cere and legs are yellow; the hind head is rulty; the body is brown above, and rufty, with deeper blotches, below ; the tail is croffed with four bars of lighter and: deeper brown.
F. Novae-terrae. Lath. ind. orn. i. 34. n. 76.-Newfoundland Falcon. Arct.zool. ii. 20 I. n. . 95. Lath. fyn. i. 79. n. 60.

Inhabits Newfoundland.-Is twenty inches long; the irides are deep yellow; the crown, back, fcapilars, and wing coverts are brown, edged with paler; the thighs are mottled afh, with round dufky foots, and having four large dark blotches near the knees; the legs are ftrong and feathered half way down to the feet.
36. Starry Falcon.-81. Falco Rellaris: 95.

The legs are blue; the upper part of the body is blackifh, with ftar like fpots; the un-der parts are varied with black and white.
F. fellaris. Briff. orn. I03. n. II. Lath. ind. orn. i. 35. n. 77.-F. cyanopus. Klein, av. 52. no. 18.-Blue-footed Falcon. Will. orn. 82. § 1 1.-Starry Falcon. Lath. fyn. i. 79. n. 6 1.

Inhabits Europe.-Refembles the Peregrine Falcon in fize and general appearance, but the wings are florter, and the tail is longer; the irides are golden yellow; the eggs are of a light reddifh, with. lighter fots.

The cere and legs are yellow; the head and upper parts of the body are deep brown;
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. $\beta$ - -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-fhaped brown fpots, and the fcrag is ftreaked with white. In the male the fcrag is whitifh, the body is flender, and the legs are long. This fpecies is about the fize of the Ring-tail Hawk, being about eighteen inches long.
38. Rhomboidal Falcon.-Falco rhombeus.

The legs are yellowifh; the body is grey on the upper, and brown, with rhombic fpots, on the lower part; the tail quills have eleven oblique black bars. Lath. ind. orn. i. $35^{\circ}$ 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 reddifh with black bars; the crown and neck are ftreaked with black; the throat is black; the tail quills are blackifh 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.

The legs are yellow ; the head, neck, fore part of the back, the breaft, and belly, are white; the wings are black with white fpots; the feathers of the interfcapulary re. gion are marked with fquare black fpots. Lath. ind. orn. i. 36. n. 81. Syn. fup. 30 . ior.
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 ftreaks; the belly is whitifh, with narrow black bars; the four middle tail quills have each one, and the outer ones each fix, paie bars. Lath. ind. orn. i. 36. n. 82. Syn. fup. 33.107.
Inhabits Cayenne.-This fpecies meafures nineteen inches in length.
42. Crefted Falcon.-83. Falco cirrbatus. 97.

The cere and legs, which are feathered, are yellow; the head is furnifhed with a tuft,

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or creft, which hangs backwards; the body is black on its upper, and ftreaked with black and white on its under parts.
F. cirrhatus. Lath. ind. orn. i. 36. n. 83.-F. indicus criftatus. Brif. orn. 104. n. 12.-F. indicus cirrhatus. Raj. av. 14. n. 12.-Faucon liuppé, des indes. Buff. of.i. i. 271. n. 4.-Crefted in= dian Falcon. Will. orn. 82. n. 12. Lath. fyn. i. 80. n. 63. fup. 20.

Inhabits India.-About the fize of the Gofhawk: The bill is dufky blue; the irides are yellow; the ferag is tawny; the tail is tranfverfely barred with black and afh colour; the claws are black.
43. Pied Falcon.-34. Falco melanoleucos. 98.

The legs are yeilow; the head, neck, back, houlders, 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 colIier, des indes. Sonner. voy. ii. 182.-Black-and-white Falcon, Kaloe Koeroelgoya, of the Cingalefe: Penn. ind. zool. loc. cit-Black-and-white indian Talcon. Lath. fyn. i. 81. n. 65. fup. 20.

Inhabits Ccylon and India. -This is a fmall fpecies, weighing only ten ounces, and meafuring fixteen inches long : The bill, claws, and the middle wing coverts are black; the irides are reddifh yellow; the eyes awe furrounded with white dots; the legs are flender. This fpecies 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 reddifl ftreaks. Lath.
44. Ceylonefe Falcon.-85. Falco ceylanenfis. 99.

The cere is yellow; the body is milk white; the hind head has two long pendent feathers.
F. ceylanenfis. Lath. ind: orn. i. 3 6. n. $8_{4}$.二Ceylonefe crefted Falcon. Lath. fyn. i. 82. n. 66. Inhabits Ceylon.-The bill of this feecies is dufky.

The cere and legs are yellow; the body is dufky 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 reft fpotted.
F. grifeus. Lath. ind. orn. i. 37. n. 86.-Crey Falcon. Brit. zool. i. n. 49. Lewin, brit. b. i. t. ${ }^{15}$. Lath. fyn. i. 82. n. 67.

Inhabits Europe.-One indivilual was fhot in Yorkfhire in 1762 . It is about the fize of a Raven. The bill is frong, fhort, much hooked, and bluifh; 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 firf quill feathers are black, with a white tip, the reft being bluifh grey, having their inner webs irregularly fpotted with white; the legs are long, naked, and yellow.

The cere is blue; the legs are yellow ; the body is brown, the lower parts being marked with brown bars; the fides of the tail are white. Faun. fuec. 64.
F. Gyrfalco. Lath, ind. orn. i. 32. n. 68.-Gerfalco iflandus. Briff. orn. io8. Brun. orn. bor. n. 9. Muller. n. 73.-Gerfault dífland. Buff. oif. i. 239. t. 13. Briff. 4 to. orn. i. 373. A. t. $3^{1-}$ Pl. enl. 210.-Iceland Falcon. Gent. magaz. 177 I. 297. fig. Lath. fyn. i. 71. n. 50. в. parag. 2.Brown Jerfalcon. Lath. fyn. i. 82. n. 68 -

Inhabits Europe, particularly Iceland. - Lives on herons, cranes, and pigeons: This birt has fometimes blue legs; the bill is ftrong, much hooked, and its upper mandible is flarply angulated at its edges ; the head is pale rufty, ftreaked longitudinally with dulky; the neck, breaft, and belly are white, with heart-fhaped fpots; the thighs are white, with deep brown fhort crofs bars; the back and wing coverts are durky or brown, with white fpots and edges to the feathers; the exterior edges of the primary wing quills are dufky, mottled with reddifh white, the inner being barred with white; the tail quills are croffed with fourteen or more narrow bars, alternately white and dulky.

## 47. White Gyrfalcon.-88. Falco candicans, 10 r.

The cere and legs are bluifh afh; the body is white with dukk bars, lines, or fpots.
F. iflandus. Lath. ind. orn. i. 32. n. 69.-Gyrfalco. Aldr. orn. i. 47 I. t. p. 473. Raj. av. 13 . n. 3.-Accipiter mufcoviticus. Ger. orn. i. 60. t. 30.-Gerfault. Briff. orn. i. 370. n. 19. t. 30.f. 2. Buff. oif. i. 239. t. I3. Pl. enl. 215. (446? 462?)-Gerfalcon. Will. orn. 78. 12. 3.-Gyrfalcon. Brit. zool. n. 47. Aret. zool. ii. 221. f. Lewin, brit..b. i. t. 16.-White Jerfalcon. Latll. fyn. io 83. n. 69. fup. 21.

## B. Iceland Gyrfalcon.--88. $\beta$. Falco candicons ifandicus.

The upper parts of the body are brown, the back and wings being fpotted with white ; the under parts are white, with black fpots.
Gerfault difland. Brif: orn. i. 373. t. $3^{1 \text { r.-Iceland Jerfalcon. Lath. fyn. i.. 84. n. 69. A.- }-1 .}$ Duky Falcon ? Arct. zool. ii. 220. f.

Inhabits Iceland, and the north of Scotland rarely. - Is about the fize of the Gofhawk, and is reckoned, efpecially in Denmark, the beft kind of Falcon for game, being referved in Iceland for the ufe of the king, and bought, particularly the white variety, at a high price. The bill is ftrong, much hooked, of a blue-afh colour, and black at the tip; the claws are leaden coloured; the orbits and irides are blue : The irides $\checkmark f$ the Iceland variety are yellow.

## 48. Surinam Falcon.-89. Falco fuffator. $1 \%$

The cere and legs are yellow; the body is whitih brown; the eyelids are bony.
F. fuflator. 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 fpecies has the power of inflating the flein of the head till it equals the reft of the body in
fize. On the upper part of the body the plumage is brown, the bafes of all the feathers being white; the under parts of the body and the tail quills are yellow, fpotted with white and brown; the noftrils have a flefhy lobe between them.
49. Laughing Falcon.-90. Falco cachinnans. 18.

The cere and legs are yellow; the eyebrows are white; the body is varied with brown and whitifl ; the crown is white, and furrounded with a black circle.
F. cachimans. Lath. ind. orn. i. 37. n. 88.-Laughing Falcon. Lath. fyn. 1. 85. n. 7 I.

Inhabits South America.-This feecies is reported, by Mr Rolander, to emit a kind of laugh when any perfon looks at it : The upper parts of the body, the back, wings, and rump are brown; the neck, chin, breaft, belly, and under furface of the winge 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 fpots; its under fide is white; the head and neck are white, with black ftreaks; the fpace 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. fup. 34. 109.

Inhabits Cayenne.-This fpecies is about the fize of a Rook, being fifteen inches and a half long; The black fpace 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 procefles; the body is leaden coloured; the breaft and belly are reddifh; the ventlet is white; the wing quills have each feveral, and the tail quills each three white bars. Lath. ind. orn. i. 38. n. 9. Syn. fup. 34. iro.

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.

The cere is yellow; the legs and bill are blue; the under fide of the body is marked with longitudinal tlack fpots. Faun. fuec. 1. 62 .
F. Lanarius. Lath. ind. orn. i. 38. n. 02.-Lanarius، Gefn. av. 76. Aldr. orn. i. 488. Raj. av. 15. n. I3. Briff. orn. 105. n. 16.-Lanier. Buff. oif. i. 243.-Lanneret. Albin. av. ii. t. 7.-Lanner. Brit. zool. n. 51, t. 23. Arct. zool. ii. 225. k. Will. orn. 82. n. 13. Lewin, brit. b. i.t. 17. - Brown Lanner. Lath. fyı1. i. 86. n. 72. fup. 2 I.

Inhabits Europe, the Uralian, Baraba, and Tartarian deferts, Iceland, Feroe, and Sweden, and is rarely found in Britain.-This fpecies, which is about the fize of the Common Buzzard, is much efteemed in Falconry; it builds its neft on low trees, and is migratory: The legs are fhort; the cere is fometimes bluifh; the breaft is white tinged yellow, with brown fpots; the primary wing quills
and the tail are dunky, the latter being marked on both mebs, and the former only on the inner webs with oval rufty fpots; there is a white line over eaeh eye. In the female, the foots on the tail and wings are whiter than on the male.

## ß. White Lanner.-Falco Lanarius albicans.

The cere and legs are yellow ; the under parts of the body are whitifn ; the wing quills are blackifh.
F. albieans. Syit. 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.

The two middle tail quills are grey, the reft being fpotted with white. Syft. nat. ed. Gmel. i. 276. n. 102. з. Aldr. orn. i. 3 30. f. p. 183.

Inhabits Europe.-Thefe two varieties are plaeed as a diftint fpecies by Dr Gmelin, though he at the fame time expreffes his belief that they do not effentially differ from the Common Lanner.

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 likewife furrounds the chin.
F. eyaneus, mas. Lath. ind. orn. i. 39. n. 94-Lanarius einereus. Briff. orn. 1o6. n. 17.-Oifeau S. Martin. Buff. oif. i. 212. Pl. enl. n. 459.-Blủe Hawk. Edw. av. v. 33. t. 225.-Henharrier. Brit. zool. n. 58. t. 28. Lewin, brit. b. i. t. i8. Hayes, brit. b. t. i. Will. orn. 72. Albin, ii. t. 5. Lath. fyn. i. 88. n. 74. fup. 22.-Grau-weifle Geyer. Frifch. av. t. 79. 80.

Inhabits Europe and Afriea.-This fpecies is frequently found in Britain on heathy and marfhy 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 fmall birds and lizards, and is deftructive to poultry: The bill is black, and the cere, which is ufually white, is fometimes yellow; the irides are yellow; the hind head is white, with pale brown fpots; the breaft and belly are white, the former being ftreaked with durky; of the tail quill feathers the two middle ones are grey on both webs, while the reft are grey on their outer and white on their inner webs, and all are freaked with durky.
54. Ring-tail Hawk.-94. Falco pygargus. II.

The cere and legs are yellow ; the body is afh coloured, the belly being paler, with ob. long reddifh fpots ; the orbits are white. Seop. an. i. i4.
F. eyaneus, fem. Lath. ind. orn. i. 39. 11. 94.-F. torquatus. Brifi. at. 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.-Soubufc. Buff. oif. i. 215.t.9. Pl. enl. 443.480.-Ring-tail. Brit. zool. n. 59. Will. orn. 72. Lewvin, brit. b. i.t. I8. 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 durky and dotted with white.

On the male the under parts of the body have tranfverfe fpots, which are ranged longitudinally on the fermale. Mr Lathan confiders this fpecies-as the female of the one immediately preceding.
55. Hudfon's Hawk.-95. Falco budfonius. 19.

The cere and legs are yellow ; the back is brown; the eyebrows are white; the wings have each a bluifh fhield.
F. hudfonius. Lath. ind. orn. i. 40. n. 94. ß.-F. pygargus canadenfis. Ger. orn. i. 66. t. 44-— Accipiter freti hudfonus. Briff. av. 6. app. 18.-Ring-tail Hawk. Edw. av. t. ro7.-Ring. tail Falcon. Arct. zool. ii, 209. n. 106.-Hudfon's Bay Ring-tail. Lath. fyn. i. 91. n. 76.-White-rump-• ed bay Falcon. Lath. fyn. i. 54. n. 34. B...

Inhabits the country about Hudfon's Bay.-This fpecies is one foot nine inches and a-half long:: The bill and claws are black; the under parts of the body are white, with reddifh brown fpots; the two middle tail quills are brownifh, or dufky, the outmoft are white, and the reft are bluifh afh, the whole having tranfverfe orange-brown bars; the legs are long and very flender; the rump is white . botl above and below, encircling the tail. This bird has the fame manners with the Blue Hawk; it fikims along the ground, in farch of mice, frogs, and fmall birds, and builds fometimes on the lower parts of trees, and fometimes on the ground: It is fometimes found of a deep ruft 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 fcarlet; the under parts are reddifh buff colour; the eyebrows are yellow; the tail is barred with pale: and durky brown.
F. Buffoni. Lath. ind. orn. i. 40. n. 94. ,-Cayenne Ringtail. Lath. fyn. i. 91. ni. 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 outcr webs bcing bluifh afh colour, with dufky bars; in the fecondary quills: there are lefs evident; the whole wing quills are white at the tips.

## 57. Marh Hawk.-97. Falco uliginofus. 104.

The cere and legs are orange coloured; the body is brown above, and the under parts are bright rufty; the tail has four tranfverfe black bars.
F. uliginofus. Lath. ind. orn. i. 40. n. 95-Marfh Hawk. Arct. zool. ii. 208. n. 105. Lath. fyn. i. 90. n. 75. A. Edws. av. iv. t. 291.

Inhabits Jamaica and Penfylvania.-In the latter country it is found only in fummer, frequenting marby places, where it preys on finall birds, frogs, ferpents, and lizards, and migrates in winter : It is two fect long; the bill is bluifh; the orbits are orange-colourd, with hazcl irides; a black line extends from the angle of the mouth to beyond the eyes, above which a white line furrounds the chceks, and mcets with one from the oppofite fidc at the back of the neck; the head, neck, and upper part of the breaft are varicd with black and rufty; the coverts of the wings are brown; the legs are frong, thick, and fhort.

Dr Gmelin remarks in this place that this and the three fpecies immediately preceding, $\mathrm{N}^{0} .{ }_{155}$. 356. 157. are very ftrongly connected together; they are confidered, in fome meafure, as varieties of the fame fpecies by fome authors, particularly by Mr Latham, who gives the general name of Ringtail to them all. - T .
58. Stone Falcon.-99. Falco Lithofalco. 105.

The cere is yellow; the body is afh coloured on the upper, and red difh, with longitu-
dinal brown fpots, on the lower parts; the tail is afh ccloured, blackifh towards the tip, and terminated with white.
F. Lithofalco. Lath. ind. orn. i. 47. n. i15.-Lithofalco. Brif. orn. ion. n. 8.-Lithofalco, f. Dendrofalco. Raj. 2v. 18. n. 8.-Rochier. Buff. oif. i. 286. Pl. enl. 447 .-Stone Falcon, or Trec Falcon. Will. orn. 8o. Lath. fyn. i. 93. n. 77.

Inhabits Europe.-Is about the fize of the Common Keftril, being very little more than a foot long; the bill is bluifh ath; the irides are yellow; the two middle tail quills are uniformly aff coloured, but the reft are barred with black.
59. Mountain Falcon.-99. Falco montanus. 106.

The legs are yellow; the upper part of the body is a brown afh colour; the chin and throat are fpotted with whitifn ; the tail is afh coloured at the bafe, blackifh in the middle, and white at the tip.
F. montanus. Raj. av. f3. n. 4. Briff. orn. ior. n. 9. Klein, av. 52. n. io. Lath. ind. orn. i, $4^{8 .}$ n. 1 16.-Mountain Falcon. Will. orn. 78. Lath. fyn. i. 93 . n. $7^{8 .}$
B. Afh-coloured Mountain Falcon.-99. B. F. montanus cinereus.

The body is afh coloured above, and pure white beneath; the two outer tail quills are

F. montanus fecundus, Will. orn. t. g.-Afl-coloured Mountain Falcon. Lath. fyn. i. 94. n. 78. A.

Inhabits Europe.-This fpecies is a little fmaller thian the Peregrine Falcon, and is fufpected by Dr Gmelin to be only a variety of the Tree Falcon. The fpots on the neck are fometimes rufty, and fometimes black, and fometimes the neck and breaft are entirely black; in the full grown adult the head is black. The Afh-coloured variety meafures one foot nine inches long; its bill and claws are black; the irides are yellow ; the under paits of the body are pure white,

The cere and legs are yellow; the back and wings are purplifh red, dotted with black; the breaft is Itreaked with brown; the tail is rounded. Scopol. an. i. 16.
F. Tinnunculus. Lath. ind. orn. i. 4I. n. 98.-Tinnunculus, Ccnchris. Gefn. av. 54. Aldr. orn. i. $35^{6 . ~ t . ~ p . ~} 35^{8}$. 359 . Raj. av. 16. n. 16. Briff. av. i. 393. n. 27 .-Crefferelle. Buff. oif. i. 28 ,0. t. 18. Pl. enl. n. 401. 47 1.-Gheppio. Cetti, uc. fard. 47. Zinnan, uov, 88. t. 15 . f. $7^{8}$.-Rother falk,
falk, and Rothel geyer. Frifch. av. t. 84. 85.-Keftrel, Keftril, Stannel, or Windhover. Brit. zool. n. 6o. 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. fyn. 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 ruffy, with black bars. The male weighs fix ounces, and the female eleven.
ß. Grey Keftril. - 100. $\beta$. F. Tinnunculus grifeus.
The plumage is grey. S. G. Gmel. it. 49. t. io. Lath. ind. orn. i. 4.2 . n. 98 . $\beta$. Syn. i. 95 . n. 79. в.

## \%. Lark Kefril.-I IOO. 2. F. Tinnunculus alaudarius.

Of a reddifh colour, freaked with brown, the under parts marked with longitudinal brown fpots; the tail is reddifh grey, ftreaked tranfverfely with brown, the quills being blackifh toward the ends and tipt with white, Lath. ind. orn. i. 42. n. 98. $\%$.
Accipiter alaudarius. Briff. orn. i 1o. 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 fpecies was trained for catching partridges and other: fmall birds.

## 61. Bohemian Hawk.-101. Falco bobemicus. 107.

The legs are yellowifh; the body is afh coloured on the upper, and white on the lower parts; the orbits are white; the outer webs of the five outmoft wing quills are black.
F. bohemicus. Lath. ind. orn. i. 43. n. roo.-Maeufe habicht, Miffylauce. J. Meyer, boehn. abhandl. vi. 3 I3.
Inhabits the mountains of Bohemia.-This fpecies fcarcely exceeds a foot in length; it goes abroad" only in the evening in fearch 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 thickifh and feathered below the knees; the claws are black and rounded.

## 62. Fifhing Falcon,-102. Falco pifcator. 108.

The legs are brown; the plumage of the head is longifh and afh coloured; the upper parts of the body are afh coloured, the under parts are pale yellowifh white; the upper furface of the tail is light brown, its under furface a bluifh afh.
F. pifcator. Lath. ind. orn. i. 43. n. ior.-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 fifh, 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; thofe of the under parts are fyotted on the middle with brown.

The legs are pale yellowifh; the head and upper parts of the body are brown; the under parts are white with finall femilunar yellow fpots; the tail is pale brown, with four darker ftripes.
F. badius. Lath. ind. orn i. 43. n. 102.-Brown Hawk. Erown, illuft. 6. t. 3. Lath. fyn. i. 96. n. 8 I .

Inhabits Ceylon.-Meafures 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 fhoulders are fpotted 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 reddifh white; the neck is purplifh red.
F. formofus. Lath. ind. orn. i. 38. n. 91.-Petite aigle d'amerique. Buff. oif. i. i42. Pl cnl, n. 417. -Red-throated Falcon. Lath. Yyn. i. 97. n. 82. fup. 26.

Inhabits South America. -Is from fixteen to eighteen inches long. This fpecies has fome affinity to the Vultures, as the fides of the head are downy, being fcarcely covered with feathers; the eye.lids are briftly; 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 blackifh blue; the throat is dark purple; the hind part of the belly and the thighs are white.

### 6.5. American Hawk.-105. Falco fufius. III.

The cere is afh coloured; the legs are yellow; the body is waved with black, being brown afh on the upper, and whitifh on the under parts.
F. fufcus. Lath. ind. orn. i. 43. n. 103. Miller, illuft.t. i8.-American brown hawk. Lath. fyn. i. 98 . n. 84 .

Inhabits America. -This is about the fize of the Sparrow Hawk, which it likewife refembles in general appearance; the bill is of a light leaden colour ; the crown and fides of the head are ftreaked longitudinally with white; the belly is reddifh brown; the tail is brownifh afh, with three tranfverfe dulky brown bars, and pale at the tip; the claws are black.

## 66. Sparrow Hawk.-106. Falco Nifus. 3 r.

The cere is green; the legs are yellow; the belly is white, waved with grey; the tail is barred with blackifh. Scop. an. i. 17.
F. Nifus. Lath. ind. orn. i. 44. n. 107.-Accipiter. Briff. orn. 89. n. i.-Accipiter fringillarids. Gefn. av. $5^{\text {1. Aldr. orn. i. } 344 \text {. t. p. 346. 347. Bellon, av. i9. b. Raj. av. i8.-Nifus friatus, }}$ and Nifus fagittatus. Frifch, t. 90. 91. 92.-Mofcheutus. Aldr. orn. 345- Epervier. Buff. oif. i. 225. t. II. Pl. enl. n. 412. 466. 467.-Sparviere. Cett. uc. fard. 5 I.-Sparfhok. Faun. fuec. n. 68. Muller, n. 71. Strom. 235.-Sperber. Gunth. neft. t. 6. Sparrow Hawk. Brit. zool. n. 62. Arc̣t. zool. 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. fyn. i. 99. n. 85. fup. 26.

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The back has a few white fpots.
F. nifus maculatus. Lath. ind: orn. i. 45. n. 107. e.-Accipiter maculatus. Brif. orn. 90. A.-Spotted Sparrow Hawk. Lath. fyn. i. 100. n. 85. a.

> r. White Sparrow Hawk.-1о6. ү. F. Nifus lacteus..

The whole body is of an uniform milk white.
F. Nifus laçeus. Lath. ind. orn. i. 45. n. 107. $\%$-Accipiter lacteus. Briff. orn. 90. B.-White Sparrow Hawk. Lath. fyn. i. 1oo. n. 85. в.
Inhabits Europe, Afia, Africa, and Madeira.-This fpecies is found very far nortli; it is very bold, and preys on poultry, partridges, pigeons, and fmall birds; it is very much addi¿ted to fly after larks, and is employed in falconry for that fpecies of game. The male meafures twelve, and the female fifteen inches long: The bill is bluifh; the head, back; wing coverts, and tail, are fometimes bluifh grey, at other times deep brown edged with ruft colour; in the male the bluifh or dove-like colour prevails; the chin, breaft, and belly are whitifh yellow, which is darker on the male, with dark brown or orange waves, which are more numerous and better defined on the female; the tail has five broad black bars, and is white at the tip.-In the fecond, or Spotted, variety the body has white fpots; the female is brown, and the male, as in the former variety, or Cominon Sparrow Hawk, verges towards bluifh ; the under furface of the tail is variegated with alternate brown and white bars.-One individual of the White variety was fhot in England, and is now in the cabinet of Dr Davies. Latb.

## 67. Dubious Falcon.-107. Falco dubius. 112.

The cere and legs are yellow; the head is dufky, ftreaked with ruft colour ; the upper parts of the body are brown, the feathers edged with ruft ; the under parts are dirty white with oblong brown ftreaks; the tail is long, of a dufky afh colour, with four broad black bars.
F. dubius. Lath. ind. orn.i. 44. n. 104.-Dubious Falcon. Aret. zool: ii. 2 I3. n. i12. Lath fyn. fup. 3.7 .

Inhabits New York and Carolina.-Is about ten inches long, and weighs fix ounces. This fpecies refembles the Sparrow Hawk in the marks and colour of the tail, and the Merlin in the fpots on the breaft ; it gets the trivial name from Mr Pennant, whe is dubious whether it flould not be confidered as a variety of the Pigeon Hawk. The bill is dufky; the irides are yellow; the primary wing quills are dufky afh, barred with black, and having their inner webs marked with oval tranfverfe sufty fpots.

## 68. Duiky Falcon-108. Falco obfcurus. 113:

The cere and legs are yellow; the hind head and nape are fpotted with white; the upper parts of the body are dufky brown; the under parts whitifh, with black freaks, or longitudinal lines; the tail is fhort, tipt with white, and crolled with four broad and four narrow duky bars.
F. obfcurus. Lath. ind. orn. i. 44. n. 105.-Duiky Falcon. Arct. zool. ii. 213. n. 113. Lath. fyn. fup. $3^{8 .}$

Inhabits New York.-This is fmaller than the Dubious Falcon : The bill is bluifh, its upper mandible being armed with a fharp procefs; the head, back, and the wing and tail coverts are dufky brown, the feathers being flightly edged with rufty; the primary wing quills are dulky, marked ou the inner webs with oval pale rufty fots.

The cere and legs are yellow; the upper parts of the body are brown; the lower parts whitifh; the tail is brown, with four narrow white bars.
F. columbarius. Lath. ind. orn. i. 44. n. 106.-Accipiter carolinenfis. Briff. orn. Iro. n. 2 I.Epervier des pigeons. Buff. oif. i. 238 -Pigeon Hawk. Catefb. carol. i. t. 3. Lath. fyn. i. rox i. 86 . fup. 27.

Inhabits North America.-This fpecies is about ten and a half inches long; it preys on fmall birds, and is migratory ; the bill is whitifh with a black tip; the irides are yellow; the whitifhnefs of the under parts of the body has a yellowifh tinge, and is ftreaked.with brown; the claws are black.

The crown, back, wing coverts, and rump, are bluifh grey, each feather being freaked .with black in the middle.
Pigeon Falcon. Arct. zool. ii. 212. n. 11 1.
Inhabits, with the former, from Hudfon's Bay to Carolina.-The bill is durky; 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 foots 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.

The cere, legs, and eyelids, are yellow; the body is brown, waved with whitifh; the wing quills are rufty, 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 fecies 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 fecondary wing quills are whitifh; the tail is black with two broad afh coloured bands, and is afh coloured at the tip; the ventlet, or under fide of the rump, is white with a few black ftreaks; the rump is varie-
gated with black and white; the eye-brows are naked and prominent on the under edges; the ftraps are befet with black divaricating briftles; the bill and claws are black; the lower wing coverts areWhite, with very fine fhort black lines.

## 21. Ingrian Falcon.-1II. Falco vefpertinus. 23.

The cere, legs, and eyelids, are yellow; the ventlet and thighs are rufly.. S. G. Gme? it. i. 67 . ii. 163. Lepechin, it. i. 230 ..
F. vefpertinus. Lath. ind. orn. i. 46. 109.-Kobez, Derbnitfchok. Decouv. ruff. ii. 142.-In. grian Falcon. Lath. fyn. i. 102. n. 88. fup. 27.

Inhabits Ingria, the whole of Ruflia, and Siberia.-This fpecies builds on thie very topmoft branches, of trees, or expels Magpies from their nefts, and takes poffeffion; 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 bluifh red: the belly is bluifh white; the head is brown, having a yellow bill, with a brown tip; the tail has twelve quill feathers, which are brown on both furfaces; the wing quill feathers are bluifh white, the firft feven primaries being tipt with blackifh; the legs are naked.

## 72. Permian Falcon.-1:12. Fälco vefpertinoides. 114.

The cere, legs, and eyelids, are yellow; the thighs are blacts; the neck, breaft; and belly, are brownifh with white fpots. Falk. it. iii. 3?9..
F. vefpertinoides. Lath. ind. orn. i, 46. 110.

Inhabits Permia, and the Ifettenfian and Bafchkirian diftricts of Siberia.-This fpecies is only about half the fize of the one immediately preceding, and weighs very little more than two ounces.

## 73. Great-billed Ealcon.- I13. Ealco magnirofris: 1.15.

The cere and legs are yellow; the body is brown above, and white, with rufty ftreaks. beneath; the tail is barred with black and white.
F. magniroftris. Lath. ind. orn. i. 46. n. 1 i1.-Ep̧ervier à gros bec, de Cayenne. . Buff. aif. i, 237. Pl. enl. n. 4 64.-Great-billed Falcon. Lath. fyn. i. 103. n. 89. fup. 27.

Inhabits Cayenne.-This fpecies is larger than the Sparrow Hawk, but. has fhorter legs, and the bill, which is black, is confiderably thicker and longer; the irides are orange coloured; the feathers, on the upper part of the body and brealt are brown, with rufty edges; the claws are black.
74. Criard Falcon. - Falco vociferus.

The legs are yellow; the body is of a grey afh colour, its under parts white; the larger: and leffer wing coverts are black. Lath. ind. orn. i. 46. n. 112. Syn. fup. $3^{8 .}$
Petit Bufe criardé. Sónner. voy. it. 184 .
Inhabits India.-This fecies is about the fize of a Pigeon; it lives mucli in the rice fields, preying on frogs, and is very clamorous on the approach of mankind: The bill is fhort; the irides are yellow; the orbits are red and naked, and the eyc-lids are furnifhed with cyc-lafhes.

The legs are yellow ; the body is rufty with fmall linear black fpots; the chin is yellowifh; the wing quill feathers are blackifh browin; the tail is white, and wedgefhaped. Lath. ind. crn. i. 47. n. T13. Syn. fup. 32.

Inhabits the inánd of Johanna, or Hinzuan.-The bill is black, the bafe of the lower mandible being yellow.

## 76. Common Hobby.-1.14. Falco Subbutieo. 14,

The cere and legs are yellow ; the back is brown ; the nape is white; the belly is pale, with oblong brown fpots. Faun. fuec. n. 59 ,
F. Subbuteo. Lath. ind. orn. i. 47 . n. 114.-F. Barletta. Ger. orn. i. 66. t. 45.46. 47.48.-m Dendrofalco. Raj. av. 14, n. 8. Briff, av. i. 375. Frifch. t. 87--Hobreau. Buff. oif, i. 277. t. 17. Pl. enl. n. 43 1. 432.-Baum falk. Gunth. neit. t. 73.-Hobby. Brit. zool. n. 61. Albin. in. t. 6. Lewin, brit. b. i. t..2I. W:ill. orn. 83. Lath. fyıt. i. 103 . n. go. fup. 28.

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\text { ß. Northern Hobby. }-F \text { Subbuteo borealis. }
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The crown, back, and wing coverts, are bluilh black; the cheeks are white, with $a^{2}$ black ftroke reaching through them from the crown. Aret. zool. ii. 227. o.

Inhabits Europe and Siberia.-This feecies is.about twelve inches long: It is migratory, and preys much on larks, which are faid to be fo terrified as frequently, to takc refuge in the bofoms of mankind, when purfued; from this circumftance this kind of Hawk was formerly in much requeft for flying at larks. The bill is blue; the orbits are yellow ; the irides are chefnut, fometimes yellow; the cheeks have each a remarkable white femilunar fpot; the outer tail quills are barred with blackifh ; the claws are black.

In the Northern variety the breaft is white, with oblong black fpots; the thighs and under fide of. the rump are pale orange; the inner webs of the primary wing quills are marked with oval.reddifh. fpots; the two middle tail quills are of a uniform dove colour, or bluifh grey, the inner webs of the reft being fpotted like the primary wing quills. The male weighs feven ounces.
77. Surinain Hobby - 115. Fulco aurantius. I16.

The bill and legs are leaden coloured; the upper part of the body is dufky brown, with narrow whitif:lines croffi g, each other; the chin is garnifhed with very long narrow whitifh feathers; the throat and breaft are orange coloured; the belly and tail. are brown, with abrupt whitifh.freaks.
F. aurantius. Lath. ind. orn. i. 48. n: 117-Orange breafted Hebby. Lath. Gyn. i. 105. n. 9r.

Inhabits Surinam. - Is about the fize of the Common Hobby, being fifteen inches and a half long: The bill, is whitifh at the bafe, and is three quarters of an inch long; the crown of the head, frag, and wing coverts are uniformly coloured, withoút any fpots; the throat is marked.with round white fpots; the belly is freaked with buff colour; the lower coverts of the tail are rufty; the tail is freaked with white near the bafe; the legs are long and flender, with black claws.-There is fome
difagreement in the defcriptions of Mr Latham and Dr Gmelin ; the former naturalift fays the body is blackifh, the back and bafe of the tail being marked with abrupt whitifh ftreaks; the breaft is tawny; the thighs are rufty; the belly is blackin, with ftreaks of a pale colour, like thofe on the back; the tail has neither fpots nor ftreaks from its middle to the tip.

## $\beta$. Smaller Surinam Hobby.-F. aurantius minor.

Is fmaller than the former; the ftreaks on the body are more dufky; the chin is white, and the throat is orange coloured. Lath. ind. orn. i. $4^{8 .}$ n. 1 I7. $\beta$. Syn. fup. 28.

This variety is only ten inches long.

## \%. Spotted Surinam Hóbby.-F. aurantius maculatus.

The legs are tawny; the upper parts of the body are bluifh black, with bluifh ftreaks.; the under parts of the body are freaked with white; the belly, ventlet, and thighs, are reddifh. Lath. ind. orn. i. 48 . n. 1 r $7 . \gamma$. Syn. fup. 29. 2d defr.
This sariety is of the fame fize with the former; the chin and throat are reddifh, with a white fpot in the middle.

The cere is dufky; the legs are yellow; the body is afh coloured, the upper part of the back being of a blackifh.leaden colour; the inner webs of the tail quills have each three white fpots.
F. plumbeus. Lath. ind. orn. i. 49. n. i18.-Spotted-tailed Hobby. Lath. fyn. i. Io6. n. 92.

Inhabits Cayenne.-This fpecies is about the fize of the Sparrow Hawk: The bill and claws are black; the head and neck are afh coloured; the legs are fhort.

The cere and legs are yellow; the head is rufy; the upper part of the body is bluifin aff, with rufty fpots and flreaks; the under , parts are yellowifh white with oblong fpots.
F. Aefalon. Lath. ind. orn. i. 49. n. Ir9.—Aefalon. Brifi. orn. Irr. n. 23. Raj. av. 15 . n. 15.-Accipiter Smerillus, Ger. orn. i. 51. t. 18. 19.-Kleinfter roth falk. Frifch, av. t. 89.Merlin. Brit. zool. n. 63. Will. orn. 85. t. 3. Lewin, brit. b. i. t. 22. Lath. fyn. i. ro6. n. 93 . fup. 29.

Inhabits Europe, and is found in Britain.-This fpecies breeds in the northern parts, and retires to the more fouthern regions on the approach of winter; it is about the fize of a Blackbird in the bo$d_{j}$, and meafures a foot in length : The bill is bluifh, but variable in its fhade; the irides are dufky; the tail has from eight to fifieen tranfverfe bars, or ftreaks, alternately dufky and reddifh; the claws are black: The eggs are rounded, and of a brown-red colour.

The forehead is afh coloured; the crown, back, and wing coverts, chefnut; on each temple is a triangular white fpot, edged with black; the tail is chefnut, with tranfverfe black bars, its under furface being varied with black and white. Lath. fyn. 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 fuppofed to be the female of the Carolina Merlin; Mr Pennant confiders it as nearly allied to, if not altogether the fame with, the Carolina Merlin; but in Mr Latham's Synopfis, and in the Syftema Naturae of Dr Gmelin, thefe are made three diftinet fpecies.
2. Caribbee Merlin.-117. , F. Aefalon caribaearum.

Of a reddifh colour above, and white beneath, with black fpots on both.
F. Aefalon caribaearum. Lath. ind. orn. i. 49. n. I 19. $\beta$.-Aefalon antillarum. Briff. orn. II is n. 24. Raj. av. 19. n. 3.-Efmerillon Gry-gry. Du Tertre, antil. ii. 253.-Caribbee Merlin. Lath. fyn. i. ı®8. n. 93. e.

Inlabits the Weft India Iflands.
8. Falconers Merlin.-117. 8. F. Aefalon falconariorumo

Refembles the Hobby in its general habits and appearance, but is more allied to the Stone Falcon in other refpects.
F. Aefalon falconariorum. Lath. ind. orn. i. 49..n. ing. \%.-Efmerillon. Pl. enl. .n. 468.-Efmerillon des fauconniers. Buff. oif. i. 288. t. 19.-Falconers Merlin. Lath. fyn. i. iog. n. 93. c.

This variety is not defcribed, nor are we informed where it is found, but only that it was formerly employed in falconry; it probably inbabits the fame countries with the Common or European varietyo

The cere is yellow; the head is brown, with a red crown; the belly is red; the wings are bluifh.
F. Sparverius, maf. Lath. ind. orn. i. 42 : n. 99.-F. minor rufefcens: Brown, jam. 47 I.-Aefälon carolinenfis. Brif. av. i. 386. t. 32..f. 1.-Efmerillon de la cayenne. Buff. oif. i. 291. Pl. ent. n. 444-LLittle Hawk. Catelby, carol. i.t. 5.-Little Falcon, male. Arct. zool. ii. 2ir. n. iro. Lath. fyn. i. I io. n. 94.

Inhabits Virginia, Carolina, and St Domingo.-This fpecies is about the fize of the Common Meralin, bcing eleven and a half inches long, and only three ounces and a half in weight: The bill and irides are yellowifh; the head is bluifh-afh ; the crown, upper part of the body, and wing coverts, are orange brown, with tranfverfe black ftreaks; the tail is reddifh brown with fmall black fpots; the legs are yellow:-The head of the femele is furrounde:l with feven black fpots.

The cere and legs are yellow; the head is afl coloured; the body is reddith brown above, and dirty white below, both being fpotted with black; the eight middle tail quills are chefnut, growing blackifh toward the extremity, which is tipt with white.
F. Sparverius, fem. Lath. ind. orn. i. 42. n. 99.-Acfalon 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. 95.-Little Falcon, female. Aret. zool. ii. 212. n. IIo.

Inhabits the ifland of St'Domingo, or Hifpaniola.-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 tranfverfe black fots; in the female thefe have each five black fpots on the white cxterior webs, and the inner webs are uniformly chefnut coloured; the middle tail quills in both are chefnut, with white tips, and haring a black fpot near the extremities; the claws are white.

There is confidcrable difcrepancy here in the defcriptions and arrangement of Dr Gmelin, Mr Pennant, and Mr Latham: The two latter naturalifts confider this laft defcribed bird as the female of the Carolina Merlin, and yet defcribe 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 tranfverfe bars; the primary wing quills are black,; the under fide of the neck, the beeaft, and belly are dirty white, with large rufty foots; 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 defeription given by Mr Latham, in his Index, agrees with that of Mr Pennant in the bars of the tail, but in the reft of the body it agrees with Dr Gmelin. Where naturalifts of fuch reputation and experience differ fo widely, the fafeft method is to give their different opinions, and leave the decifion to farther inquiry.-T.

## 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. Brif. av. i. 3I5.t. 30. f. 1.-Minute Falcon. Lath. fyn. i. 1.12. n. 96.
Inhabits the inland of Malta.-This feecies is not larger in the body than a Thrufh, and meafures fomething lefs than a foot in length.: The bill and claws are black; the body is brown above, varied with reddifh; its under fide is white, with tranfverfe reddifh brown ftreaks; the breaft being fome,times marked with fpots fhaped like fpear heads.

The cere, eyelids, legs, and under part of the body, are yellow; the back is bluiff black; the temples are furrounded by a white line.
F. caerulefcens. Lath. ind. orn. i. $5^{0}$. n. 120.-F. bengalenfis. Brif. orn. i. 119. n. 38.-F. parvus indicus. Ger. orn. i. 66. t. 44. f. r.-Faucon de bengale. Brif. app. 20. n. 38.-Little black-and-otange indian Hawh. Wiw. av. t. 108.-Dengal Falcon. Lath. fyn. i. II2. n. 97.

Inhabits Bengal.-This is one of the fmalleft of the genus, meafuring only fix inches and a half long: The bill is blackifh; the hind head is white; the orbits are naked and yellow; the cheeks are white with a black ftreak through each; the tail is black, the two middle quills being uniform, while the reft have tranfverfe white ftreaks on their inner webs; the claws are blackifh.

The cere is greenifh; the legs are dufky yellow; the neck is furrounded by a rufty ruff, or collar ; the body is leaden coloured above, and whitifh, with rufty brown fpots, below. Pall. it. 2. 707.
F. regulus. Lath. ind. orn. i. 50. n. 122.-Siberian Falcon. Lath. fyn. i. II 3. n. 98.

Inhabits Siberia.-This feecies 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 Keftril; the crown is brown, with blackifh ftreaks; the back is ftreaked with brown, the fhafts of the feathers being of that colour; the under part of the body is thickly interfperfed with fmall rufty-brown dots; the tail quill feathers are black at the edges, white at the tips, leaden coloured near the extremity, and flightly barred on their under furfaces.

## 85. Tiny Falcon.-Falco pumilus.

The legs are yellow; the body is brown afh colour; its under parts whitifh, with blackifh bars; the crown is whitifh.
F. tinus. Lath. ind. orn. i. 50. n. 123.-Tiny Falcon. Lath. fyn. fup. 39.
"Inhabits Cayenne.-This is one of the finalleft fpecies of the genus, which fcarcely meafures fix inches from the tip of the bill to the bafe of the tail.

## III. O W L.—3. S T R $I X .43$.

The bill is hooked, and has no cere: The noftrils are oblong, being covered by reflected briftly feathers: The head is large, with large eyes, and wide paffages to the ears: The tongue is cleft.

The genus of Owls differs from that of Falcons, in fome meafure as Moths differ from Butterfies; Owls and Moths flying about in the evening and night, while Falcons and Butterflics 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 fmall birds, murine quadrupeds, and bats; their legs and feet are, for the moft part, clothed with feathers or down, even to the origin of the claws; three of the toes ftand forward, and one backwards, but the outer fore toe can be turned backwards occafionally, fo as to act along with the back toe; in this way the feet are either perching or climbing, as is neceffary at the time : The paffages to the ears are large, and are provided with a membrane, which, when drawn back, refembles the euftachian tube of the human ear: The eyes are large, full, and protuberant, and

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fhine in the dark, that the animal may then fee with greater clearnefs; during the day they are moftly kept fhut, being unable to bear the glare of light, and, though birds of prey, they are then infulted by the fmall birds, when difcovered by them in their retreats: The outermoft wing quill feather is ferrated, or jagged, on each of its edges: :The claws are much hooked, and very fharp.

This genus is very conveniently fubdivided into two parcels, which are diftinguifhed by the prefence or abfence of a kind of horns or external ears, compofed of feathers: In the firft fubdivifion, called Eared Owls, or Horned Owls, fome long feathers are erected round the auditory paffages; thefe are fometimes very confpicuous, confifting of a number of confiderable feathers; at other times they are fcarcely perceptible except when erected, and confift but of one or two fmall feathers: In the fecond fubdivifion, called Earlefs Owls, thefe appendages are entirely wanting.

## * Eared Owls.

## 1. Great Owl.-1. Strix Bubo. I.

Of a large fize, and tawny red colour. Faun. fuec. n. 69 . Scop. an. i. 18.
S. Bubo. Lath. ind. orn. i. $5^{\text {I. n. r.-Bubo. Bellon, av. } 25 \text {. a. Gefn. av. } 234 \text {. Aldr. orn. i. }}$ 502:-Bubo maximus. Ger. orn. i. 84. t. 81. Wirfing. vog. t. 50 .-Grand Duc. Buff. oif. i. 322. t. 22. Pi. enl. n. 435-Gufo. Zinnan. uov. 96. t. 16. f. 85.-Schuffut, Uhu. Frifch. ar. t. 93.Eagle Owl. Birit. zool. n. 64.-Great horned Owl. Alb. av. ii. t. 9. Will. orn. 99. t. i 2. Lewin, ,brit. b. i. t. 23.-Great eared Owl. Lath. fyn. i. II6. n. I. fup. 40.

## B. Athenian Great Owl.-I. $\beta$. S. Bubo athenienfis.

Is of a fuller, or darker, colour, with blackifh wings, and has flenderer legs. Lath. ind. orn. i. 5 I. n. 1. $\beta$.

Bubo italicus. Briff. orn. 140. n. 1. A. Borowfk. nat. ii. 77.-Bubo fecundus. 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. fyn. i. if 8.

## r. Smooth-legged Great Owl.-I , \%. S. Bubo nudipes.

Refembles the Common Great $\mathrm{O}_{\mathrm{wl}}$ in every thing, except that the legs are naked. Lath. ind. orn. i. 52 . n. 1. $\gamma$. Briff. orn. 141. n. I. в.

Bubo tertius. Will. orn. 64.-Great horn Owl. Will. orn. ang. roo. n. 3.-Smooth-legged Owl. Lath. Yyn. i. 188.

## ס. Variegated Great Owl.-I. \&. S. Bubo variegata:

The body is blackifh yeilow, variegated with white. Lath. ind. orn. i. 52. n. i. i.
S. Lubo magellanicus. Syft. nat. ed. Gm. 286. n. z. ס.-Jacurutu. Marcgr. braf. 199.-Hibou des terres magellaniques. Buff. oif. i. $33^{8}$. Pl. enl. 385 - Magellanic eared Owl. Lath. fyn. i. 188.
Inhabits İurope, Calmuck Tartary, and South America.-This is the bird of Minerva, or Noctua of the ancients, who ufed the proverb, Noctuas athenas mittere, as we now fay, 'to fend coals to Newcaftle.' It haunts the thickeft coverts of the foreft, and holes and caverns of decayed trees, rocks, and mountains, preying by night on hares, rabbits, moles, rats, and mice, and feldom 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, aflh, and rufty colours; the wings are long; the tail is fhort, and marked with tranfverfe dully freaks; the legs are of a brick-dutt red colour, and, except thofe of the Smooth-legged variety, are feathered to the roots of the claws : thefe are dulky, large, very much hooked, and fharp pointed.

## 2. Virginian Owl.-2. Strix virginiana. I 3.

The upper parts of the body are brown, with fine zig-zag lines of afh colour, black and orange; the under parts are pale afh, with tranfverfe brown lines; the throat and fides of the brealt are orange, with brown ftreaks.
S. virginiana. Lath. ind. orn. i. 52. n. 2.-Bubo virginianus. Brifl. orn. 14र. n. 2. Ger. orn. i. 86. t. 84.-Horned Owl. Ellis, hudf. 40. t. 2.-Great hornel Owl, from Virginia. Edw. av. ii. t. 60. -Eagle Owl. Arct. zool. ii. 223. n. 1r4.—Virginian Eared Owl. Lath. fyn. i. ı19. n. 2.

Inhabits America, in both hemifpheres, Northern Afin, as far eaft as Kamtfchatka, and almof to the North Pole. -This fpecies refembles the Great Owl, being variegated in a timilar maniner, but it is fmaller, and the feathery ears are placed nearer to the bafe of the bill: Dr Gmelin fuppofes it may only be a variety, and Mir Pennant places it as fuch in his Arctic Zoology. The bill is back; the irides are golden yellow; the wings and tail are barred with dufky brown, and the latter has a number of crofs afh coloured ines; the legs are clothed to the roots of the claws with foft light brown feathers; the claws are pale yellowilh, or horn coloured.
3. 'Scandinavian Owl.-3. Strix feandiaca. 2.

The whole body is whitifh, fprinkled with black fpots. Faun. fuec. n. $\boldsymbol{y}^{\circ}$.
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 fpecies is as large as a Turkey, and refembles the Snowy Owl, except in having ears. Dr Gmelin fufpects this might likewife be confidered as a variety of the Great Owl.

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\text { 4. Ceylon Owl.-4. Strix zeyloneryis. } 14 \text {. }
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The upper part of the body is reddifh brown, and the lower parts are yellowifh white; the face is marked with reddifh brown circles, which are fereaked with black.
S. ceylonenfis. Lath. ind. orn. i. 52. n. 3.-Great ceylonefe horned Owl. Brown, illuft. zool. 8. t. 4.--Ceylonefe eared Owl. Lath. fyn. i. 120. n. 4. fup. 4 r.

Inlabits 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 fireakect tranfverfely with black, white, and pale red; the legs are only half feathered.

The body is reddifh brown, with waved black lines; its under parts are freaked with reddifh black, and barred with white. Lath. ind. orn, i. 53. n. 4.

Chinefe eared Owl. Lath. fyn. fup. 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.
6. Coromandel Owl.-Strix coromanda.

The body is greyifh red above, with reddifh white fpots; its under parts are pale red, with fmall femilunar black fpots. Lath. ind. orn. i. 53. n. 5.
Hibou de Coromándel. Sonner. voy. ii. 186.-Coromandel eared Owl. Lath. fyn. fup. 44.
Inhabits India, on the Coromandel coaft.-This fpecies is confiderably fmaller than the preceding; the bill is black; the irides are yellow; the legs are reddifh; the cheeks are white; the wing and tail quills are barred with reddifh white.

## 7. Red Owl.-5. Strix Afio. 3.

Of a rufty or tawny red above, and afh coloured below; the wings being marked with five white fpots.
S. Afio. Lath. ind. orn. i. 54. n. 10. Faun. groenl. n. 37.-Scops carolinenfis, Briff. av. i. 497.Little Owl. Catefby, carol. i. t. 7.-Red eared Owl. Lath. fyn. 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 ftreaks, and the lower with oblong black fpots; the fcapulars are marked with large white fpots, which are probably the five white fpots 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 dufky bars; the legs are feathered to the origin of the claws.

## 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.-Tecolotl. Raj. av. $160 .-$ Mexican eared. Owl. Lath. fyn. i. 123. n. 7.
Inhabits Mexico, and New-fpain.-The eyes are large, and have golden yellow irides.

## 9. American Owl.-7. Strix americana. 16.

The head and upper parts of the body are afh coloured; the under parts are rufty; the rump is white, with black fpots; the wings and tail are rufty, with tranfverfe afh coloured and grey ftreaks.
S. americana. Lath: ind. orn. i. 54. n. 8.-Afio americanus. Briff. orn. 145. n. 7.-Bubo ocrocinereus. Feuill, journ. des obf. ed. 1725. p. 59.-American eared Owl. Lath. fyn. 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 afh coloured; the legs and feet are yellow, with black claws.

The ears are long, confifting each of fix feathers. Faun. fuec. n. 7I. Scop. an. i. n. 18.
S. otus. Lath. ind. orn. i. 53. n. 7.-Afio. Brif. 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. zool. n. 6 . 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. $7 . \beta$.
Afio italicus. Briff. av. i. 49I. A. Aldr. orn. 519. t. P. 523.-Italian eared Owl. Lath. fyn. i. 122.

Is confiderably fmaller 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 meafures fourteen inches long, the Italian variety is a little larger, and the Arc-tic confiderably fmaller; 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 dulky brown, grey, and rufty yellow; the breaft and belly are pale yellow, with flender longitudinal brown ftreaks; the tail is barred with. afh colour and dufky; the primary wing quills are barred with ruft colour and dufky; the legs and. feet are feathered to the claws..

## ri. Short-eared Owl.-9. Strix brachyotos. $17^{\circ}$

The ears are fhort; the upper part of the body is brown, the feathers being edged wither yellow; the under parts are pale yellow, longitudinally ftreaked with dufky. Forfter, phil. tranf. lxii. 384. n. 2 .
S. brachyotos. Lath. ind. orn. i. 55. n. If:-Chouette, Grand Cheveche. Buff. oif. i. 372. t. 27. Pl. enl. n. 438.-Short-eared Owl. Brit. zool. n. 66. t. 31. Aret. zool. ii. 229. n. it 6 . 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 iffands.-This fpecies meafures fourteen inches long; the ears confift of a fingle feather, which may be raifed or deprefled at pleafure, and are not in general very confpicuous, which lias occafioned it to be fuppofed earlefs. by fome naturalifts; it is very bold, and preys much on mice, watching for them like a.cat, from which circumftance it is called, by the Englifh in Hudfon's Bay, the Moufe Hawk : The tail is dark brown, the middle feathers having a large yellow circle, with a brown fot in the center, on each web; the primary wing quills are dulky, with red bars; the thighs, legs, feet, and toes, are covered. with yellow feathers: It never flies after its prey; breeds on the ground in the northern regions, and: migrates fouthrvards in autumn : This feecies fometimes varies to a yellowifh colour, the feathers having oblique black bars. Mr Pennant refers the Ulula cunicularia, of Feuille, to this fecies, but it feems more properly to form a feparate article among the Earlefs Owls, as arianged by Dr Gmelin.

## 12. Brafilian Owl.-Io. Strix brafiliana, 18.

The body is pale rufty brown above, with white fpots; and whitifh below, with rufty brown fpots.
S. brafiliana. Lath. ind. orn. i. 55. n. 12.-Afio brafilienfis. Brif. orn. 145. n. 8.-Noctua brafilienfis, Cabure. Raj. av. 26. n. 7.-Ulula brafilienfis. Klein, av. 57. n. 8.-Cabure, Caboure. Will. orn. го7. n. 8. Buff. oif. i. 383 -Brafilian eared Owl. Lath. fyn. i. 125. n. io.
Inhabits Brafil.-Is about the fize of a Thrufh; the wing quill feathers are barred with white; the bill, irides, legs, feet, and toes, are yellowifh; the legs are fhort.

The body is grey, its under parts paler, and both are fpotted with black and rufty; the feathers of the head and breaft are dotted with black.
S. naevia. Lath. ind. orn. i. 55 . n. 13.-Mottled Owl. Lath. fyn. i. 126. n. i1. Aref. zool. ii. 231. n. if8. Faun. amer. fept. 9.

Inhabits New-york.-Is eleven inches long; breeds in May, and does not migrate. The face is white, with brown ipots; the head, wings, and upper parts of the body, are mottled with afh colour and pale red; the fcapulars, and wing coverts, have large white fpots; the primary wing quills are fpoted with black and pale rufy; the breaft and beliy are whitifl grey, with longitulinal duilky ragged fripes; the legs and feet are feathered to the toes.
14. Indian Owl.-12. Strix indica. 20.

The back is dufky; the wing coverts are grey, with narrow longitudinal black lines; the breaft is buff coloured, with fmall fagittal black fpots; the wings are tranfverfely barred with black and white.
S. Baklamuna. 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. iff. n. 3.-Indian eared Owl. Lath. fyn. i. 127. n. 12.

Inhabits Ceylon.-This fpecies is rare, and very fimall, as the figure in the Indian Zoology, which is fail to be of the natural fize, meafures only four inches and a half long: The bill is dufky, and furrounded with long briftles; the head is deep afh colour, circularly ftriped with paler; the ears, or horns, rife from the bafe of the bill and diverge outwards, being dufky on their inner and white on their outer fides; the irides are fcarlet; the orbits are pale afh, furrounded with yellowifh brown; the legs are feathered only half was, their lower naked part, and the feet, are reddifh yellow.

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\text { 15. Sardiniain Owl.-13. Strix Zorca. } 2 \text { s. }
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The bill is greenin yellow; the ears are compofed of eight or nine feathers. Ccti, uc. fard. Go. Lath. ind. orn. i. $5^{\text {6. }}$ n. 15 .
Inhabits Sardinia and Italy.-This feccies meafures feven inches in length; it is folitary, does not migrate, and makes a lioviling noife; the feet and toes axe naked.

The body is whitih afh, with tranfverfe freaks and fpots of blackifh.
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 nefles 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 meafures about eight inches long, and refembles the Little Owl, differing chiefly from it by having fimall ears, which are fcarcely perceptible after death. The firft fix wing quill feathers, are fpotted with white on one of their webs; the tail is fpotted with brownifh. The bird quoted from Kramer feems to vary from this in being variegated with very fmall waved lines of black, white, and brown.

$$
\text { 17. Yaik Owl.-15. Strix deminution } 23 .
$$

Of a reddih colour, and fmall fize. Pall. it. ii. 707 . n. i4.
S. deminuta. Lath. ind. orn. i. $5^{6}$. n. 17.-Yaickan eared Owl. Lath. fyn. i. i28. n. If.

Inhabits the forefts of the Uralian or Yaik mountains, in Siberia.-This fpecies refembles the Great Owl in colours, and general make, but is vafly fmaller, fcarcely weighing one pound; the variegation of its feathers is likewife lefs elegant, and lefs diftinctly marked.

## 18. Siberian Owl.-16. Strix pulchella. 24.

The body is grey, variegated with brown, rulty, and white. Pall. it. i. 466. n. 8.
S. pulchella. Nov. com. petr. xv. 490. t. 26. f. I. Lepech. it. ii. t. 4. Lath. ind. orn. i. 57. n. 19.-Siberian eared Owl. Lath. fyn. i. I30. n. 16.t. 5. f. I.-Leaft horned Owl. Natural mifcell. $\mathrm{N}^{\mathrm{o}}$. viii. t. 22. .

Inhabits Siberia, near Catharinople, and on the fouthern fhore of the Wolga.-Is rather more than nine inches long; the bill, legs, feet, and claws, are dirty whitifh; the irides are yellow; the back is dirty afh colour; the wings are marked with oblong white fpots; the tail is reddifh, with browry bars and dots. Mr Latham fays, that the body is hoary, waved with afh colour, the wings barred. with hoary, and the noftrils fimeared with white.
19. Scops Owl.-17: Strix Scops. 5:

The ears are each compofed of one feather.
S. Scops. Lath. ind. orn. i. 56. n. 18.-Scops. Brif. av. i. 495. t. 37. f. I. 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 Ohrenle. Gunth. neft. t. 40.-Scops eared. Owl. Lath. fyn. i. 129. n. 15. fyn. 43,-Little horn Owl. Will. orn. ioi.t. 12.

Inhabits Lurope, but has not been difcovered in Britain.-This fpecies is very fmall, fcarcely excceling féven inches long; it preys on field mice; the ears are fearcely confpicuous after death : The plumage is variegated with grey, reddifh, brown, and blackifh, but is fubject to confiderable variety from difference of age; the legs are feathered, and footed with brown; the toes and claws are brown.

The plumage is white, with a few diftant fmall dufky or brownifh femilunar fpots. Scop. an. i. 20.
S. Nyctea. Lath. ind. orin. i. 57 . n. 20.-Strix alba, freti hudfonis. Brif. 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. $45^{8}$.-Hibou blanc d'flland. Ander. inl. i. 85. t. I.-Great white Owl. Edw. av. t. 61. Gent. mag. xli. t. p. 437.-Snowy Owl. Arĉ. zool. ii. 233. n. 121.t. tit. praefix, Lath. fyn. i. 132. n. 17. fup. 45.

## B. Speckled Snowy Owl.-S. Nyctea Ariata.

Is marked with numerous femilunar brown fpots. Nat. mifc. No. xvi. t. 47.
Inhabits the northern parts of Europe, Afia, and America.-This fpecies is almofe equal in fize to the Great Owl, being two feet long; it flies about in the day, and preys on herons, hares, murine quadrupeds, and birds, fometimes feeding on carrion; it makes a hideous howling noife, refembling the voice of a man in deep diftrefs; it varies confiderably in fize, weighing fometimes three pounds, while other fpecimens fcarcely weigh half as much; in winter it is often found, efpecially in the moit northern regions, entirely white, but has generally a few fimall fcattered crefcent-like brown or dufky fpots; the variety quoted from the Naturalift's Mifcellany is remarkable for having a much greater number of thefe fpots than ufual. The head is fmaller in proportion than in mof fpecies of the genus; the legs, feet, and toes, are thickly clothed with long foft downy white feathers to the claws; the bill and claws are black; the irides are yellow.

## 2 1. Swedifh Owl.—19. Strix Tengmalmi. 44.

The body is grey, with round white fpots. Tengmalm, in act. Stock. ann. 7783 , trim. ₹.
S. Tengmalmi. Lath. ind. orn. i. 64. n. 42. Arct. zool. fup. p. 60.

Inhabits the province of Upland, in Sweden.-This fpecies, which was only lately difcovered by Dr Tengmalm, is about the fize of a blackbird; the bill is dufky, with a white tip, and having a black line ftreaching from its bafe to the eye, on each fide; the eyes are furrounded with a circle of white feathers, which are clouded with dufky, or blackifh; the head is grey, ftriped with white, and furrounded by a dukky collar or circle, which is fpotted with white; the breaft and belly are white, irregularly blotched with dufky; the primary wing quills are dufky, with white bars; the tail is dufky grey, with white fripes; the toes are feathered to the claws.

The head, neck, breaft, back, and wing coverts, are tranfverfely barred with brown and whitifh; the belly and ventlet are dirty white, with oblong brown longitudinal freaks; the tail is barred tranfverfely with brown and whitifh, and is white at the tip. Forfter, phil. tranf. 1xii. 424.
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. No. ix. t. 25-Grey Owl. Phil. tranf. Ixii. 386.

Inhabits Hudfon's Bay and New York.-This is a large fpecics, weighing three pounds, meafuring two feet in length, and four feet in extent of wings; it preys on lares, mice, \&c. The bill is pale yellow, and befet with ftrong briftles; the irides are yellow, and the eyes are furrounded by a large whitifh circle; the primary wing quills are very diftinetly barred with black and white; the legs, feet, and tocs are feathered with whitifh; the wings are fhorter than the tail.
23. Sooty Owl.-21. Strix cinerea. 26.

The head, fcrag, and wing coverts, are footy, with narrow dirty white bars; the breaft and belly are dirty white, much cowered with large, oblong, dufly brown blotches.
S. cinerea. Lath. ind. orn. i. 58. n. 22.-Sooty Owl. Arct. zool. ii. 232. n. 120.-Cinereous Owl. Lath. fyn. i. I34. n. 19. fup. $45 \cdot$

Inhabits Hudfon's Bay.-This fpecies is as large as the laft; it flies about in pairs, preying on hares, rabbits, \&c.; breeds in the pine trees, laying two eggs, which are fpotted with dukky, in the middle of May, and the young ones are able to fly in the end of July: The bill is whitifh; the irides ate yellow; the primary wing quills are deep brown, with broad bars of duky, and pale afh coloured ftreaks; the tail is irregularly marked with oblique ftreaks of brown and dirty white; the eyes are furrounded with alternate black and pale afh coloured circular ftreaks; a part of the flkin, from the chin along the breaft and belly to the vent, is bare of feathers for near an inch in breadth; this laft circumftance is an uncommon diftinctive mark, if it is not merely accidental.

## 24. Spectacle Owl.-Strix perficicillata.

The head is white, fmooth, and downy; the fpace round the eyes, the chin, and the upper part of the body, are reddifh brown; the under parts of the body are reddifh white, and the breaft is barred with reddifh brown. Lath.ind. orn. i. 58. n. 24. Syn. fup. 50. t. 107.

Inhabits Cayenne.-This fpecies is fmaller than the two preceding, meafuring twenty-one inches long; the head is fmall, 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 naculata. 27.

The back and rump are white, with dufky fpots; the breaft and belly are dirty white; with numerous tranfverfe reddifh lines; the fcapulars and wing coverts are white, with dufky reddifh longitudinal bars.
S. Wapacuthu. Syft. nat. ed. Gm: 29I. n. 27. Lath. ind. orn، i. 5 安. n. 21.-Wapacuthu Owl. Arct. zool. ii. 23 t. n. ing. Lath. fyn. fup. 49.

Inhabits Hudfon's Bay.-This is a large fecies, meafuring two feet long, by four in extent, and weighing five pounds; it lives in the woods, preying on mice and fmall birds; builds on the bare Vol. I.
ground, or mofly foil; the young are hatched in May, and fly in June, continuing entirely white for a long time after. It is called Wapacutbu by the Indians, which fignifies Spotted Owl, and is rec= koned a great delicacy by the European fettlers. The bill is gloffy black, and its bafe is befet with ftrong briftles; the irides are yellow; the fpace 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 fpotted with black and pale red; the ventlet or under fide of the rump is white; the legs are feathered to the toes, which are covercd with hairs, and have very crooked claws.

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.

The head is rufly; 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. $\mathrm{r}_{7} 82$, 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 .-Hulotie. Buff. oif. i. $35^{8}$. Pl. enl. n. 441 .-Aluco Aldrovandi. Will. orn. ıo4. t. I3.-Grabeule. Frifch, av. t. 94-Aluco Owl, Lath. fyn. i. I34. n. 20.

Inhabits Europe and Tartary.-This feecies is fifteen inches long; it is faid to be confidered as facred by the Kalmucks, for having contributed to fave the life of their great monarch Genghis Khan, but this is attributed to another fpecies, the Common Owl, by Mr Pennant; perhaps it is to the Owl. in general this refpect is paid, and not to any particular feecies. In fummer 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 deferted nefts of the Great Owl , Keftril, Crow, or Magpie ; the bill ${ }^{\text {: }}$ is of a yellowifh or greenifh white; the upper part of the body is of a dark ruft colour, with whitifl. and black fpots; the legs are white, with very fmall black dots.

## 28. Aufrian Owl.-25. Strix fylveffris. 29.

The body is variegated with white and brown ; the fpace round the eyes is white.
S. fylveitris. Scop. an. i. 21. n. 13. Lath. ind. orn. i.. 61. n. 29.-Auftrian Owl. Lath. fyn. io 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 acrofs the fore-head. from one ear to the other ; the irides are fiery red.

The upper part of the body is reddifh, fpotted with grey ; the under parts white; the wing and tail quills are reddifh, the latter having white tips. Scop. an. 22. n. I4.
S. alba. Lath. ind. orn. i. 61. n. 30.-Aufrian white Owl. Lath. fyn. i. 136. n. 22.

Inlabits Aufria.-Of the fame fize with the former, from which it is particularly diftinguifhed by having a reddifh border to the covering of the head; the bill is white.

The body is pale reddifh, with longitudinally oblong brown fpots; the irides are brown. Scop, an. i. 22. n. 15 .
S. Noctua. Lath. ind. orn. i. 6 I. n. $3^{\text {I }}$-Rufous auftrian Owl. Lath. fyn. i. i36. n. ${ }_{3} 3$.

Inhabits Carniola.-This fpecies is about the fize of a Pigeon, and dwells in the woods.
31. Rufty Owl.-28. Strix rufa. 32.

The body is rufty, with brown fpots; the irides are bluifh. Scop. an. i. 22. n. i6.
S. rufa. Lath. ind. orn. i. 62. n. 32.-Ferrugineous auftrian Owl. Lath. fyn. i. 137. n. 24.

Inhabits the woods of Idria.-This is much of the fame fize and general appearance with the laft, of which, perhaps, it fhould only be confidered as a variety.
32. French Owl.-29. Strix Folonienfis. 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.
Inlabits France, in the diftrict formerly named Sologne.-This fpecies meafures fifteen inches in length; the crown of the head, and the outer circle of feathers round the face, are varied with white and reddifh ; the toes are pale.

The fpace round the eyes, and the chin, are black. Lath. ind. orin i. 62. n. 34 . Syn. fup. 50.
Inhabits the eaftern mountains of Siberia.-Has confiderable refemblance to the Sacred Owl, but is in reality a different fpecies: The bill and irides are yellow; the plumage is afh coloured; the primary wing quills are ferrated on both edges ; the blacknefs of the chin has the appearance of ac beard at a diftance.

The body is pale yellow above, with fmall white fpots; and whitifh below, with fmall blackilh fpots. Faun. fuec. n. 73.
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, I. 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. 58 g. - Common barn Owl, or White Owl. Will. orn. 104. t. 13.-White Owl. Brit. zool. n. 67. Arct. zool. ii. 235. n. 124. Albin, av. ii. t. i1. Lewin, brit. b. i. 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 dutky 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 fhort hairs.

The body is of a tawny or rufty colour, fpotted and powdered with dufky; the third wing quill is longer than the reft. 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. Hafielqu. 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 Come mon brown Owl. Will. orn. 102. t. 14.-Tawny Owl. Brit. zool. n. 68. Lewin, brit. b. i. t. 2 \%. Arct. zool. ii. 237. B. Lath. fyn. i. 139. n. 27.

Inhabits Europe, and Tartary, perhaps likewife in Hudfon's Bay.-Is fifteen inches long, and: weighs nineteen ounces; the breaft and belly are yellowifh, mixed with white, and freaked longitudinally with dufky; the tail is blotched, barred, and fpotted with black and pale rufty; the irides are dufky; the legs, feet, and toes are feathered to the claws.
36. Brown Owl.-32. Strix Ulula. 10.

The body is brown above, with white fots; the tail quills are marked with very narrow white bars. Faun. fuec. n. $7^{8}$. Nozem. vog. t. 33.34.
S. Ulula. Lath. ind. orn. i. 60. n. 27.-Noctua major. Briff. av. i. 511 .-Noctua faxatilis. Gefn. av. 62:2. Aldr. orn. i. 545--Chouette, Grand Cheveche. Buff. oif. i. 372. t. 27. P1. enl. 438.Grey Owl. Will. orn. 193.-Great brown Owl. Albin. iii. t. 7.-Brown Owl. Brit zool. n. 69. Arct. zool. ii. 236. n. 125. Lath. fyn. i. 140. n. 28.-Ulula flammeata, Stein Eule. Frifch, ava t. 98.

Of a fmaller fize.
Noctua minor aucuparia. Nozem. nederl. vog. t. 37 .
Inhabits Europe and Newfoundland.-This fpecies meafures fourteen inches long, but the Leffer rariety is confiderably fmaller: The head, wings, and back have black fpots; the fhoulders and wing
coverts are fpotted with white; the breaft is pale afh colour, with dufky, jagged, longitudinal freaks; the irides are chefnut; the feet are feathered to the claws.

The defcription in Mr Latham's Index differs fo confiderably from this, though he refers to the fame authorities, that it has certainly been taken from a different variety, perhaps even from a different fpecies; it is neceffary however to obferve that he marks fome 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 reddifh, with longitudinally difpofed brown fpots; the under parts are whitifh, " with fmall brown ftreaks; the tail is barred with brown ; the irides are yellow."
37. Arctic Owl.-Strix arcfica.

Of a rufty brown colour, fpotted with black on the upper, and ftreaked with narrow brown lines on the under parts of the body; the bill, the orbits, and a band under the wings, are brown. Sparrm. muf. carlf. fafc. ii. t. $5_{1}$.

## S. Ulula arCtica. Lath. ind. orn. i. 6o. n. 27. $\beta$.

Inhabits the northern provinces of Sweden.-This fpecies is eighteen inches long; the irides are yellow; the tail is barred with black and rufty; the legs and feet are white, with black claws.

## 38. Canadian Owl.-33. Strix funerea. II.

Of a brown colour, with a few large white fpots above; the under parts are white, with tranfverfe narrow brown bars; the tail is very long, with broad bars of brown, and narrow white bars.
S. funerea. Faun. fuec. n. 75. Lath. ind. orn. i. 62. n. 35. Phil. tranf. Ixi. 385.-Strix canadenfis. Briff. orn. 151. n. 6.-Noctua canadenfis. Ger. orn. i. 88.t. 90.-Chat-huant de canada. Brif. av. i. ${ }^{5}$ 18. n. 6.t. 37 . f. 2.-Chouette de canada, Grand Cheveche de canada. Buff. oif. io 391. 1n. 5.-Canada Owl. Lath. fyn. 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 fyotted on their outer webs ; the middle tail quills are flightly whitifh at the tips; the irides are yellow.

The brown feathers of the upper parts of the body are edged with white; the under parts are white, with narrow, tranfverfe, black lines; the bill and irides are orange yellow.
S. funerea hudfonia. Lath. ind. orn. i. 62. n. 35. B.-Strix freti hudfonis. Briff. orn. 15 I . n. 7.-Strix noctuaeformis, f. Falco noctuaeformis. Ger. orn. i. 9I. t. 98.-Caparacoch. Buff. oif. i. 385. n. 2.-Little Hawk Owl. Edw. av. ii. t. 62.-Hawk Owl, Cabetituch. Arct. zool. ii. 234 。 n. 123 . Lath. fyn. i. 143. n. 30.

Inhabits Hudfon's Bay.-This fpecies, which is hardly larger than the Sparrow Hawk, goes about during the day in fearch of prey: The crown is brown, fgotted with white; the face is white, mixed
with brown, and edged round with black; the rump is brown, with paler bars; the tail and wings are long.

The body is white, each feather having an oblong longitudinal brown fpot in the middle. Lepech. it. ii. t. 3. Pall. it. i. 455 . n. 7.
S. funerea uralenfis. Lath. ind. orn. i. $6_{3}$. n. $35 \%$-Chouette à longue queue, de fiberie. Pl enl. n. $46_{3}$.-Ural Owl. Lath. fyn. i. I48. 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 cyelids are black; the orbits are afh coloured; the rump is white; the tail is long and wedge fhaped. Thefe two laft fpecies are fufpected to be varieties of the Canadian owl, by Dr Gmelin, and are ranked as fuch by Mr Latham : Mr Pennant quotes them indifcriminately without hinting at any variation.
41. Cafpian Owl.-36. Strix accipitrina. 3 6.

The body is yellowifh above; its under paits are yellowifh white, having each fide fmeared longitudinally with blackifh, and the beily is dotted with black; the irides are citron yellow. Pall. it. i. 455 . n. 6. S. G. Gmel. it. ii. ז63. t. 9 .
S. Ulula accipitrina. Lath. ind. orn. i. 60. n. 27. \%-Cafpian Owl. Lath. fyn. i. I47. n. $3^{66}$.

Inhabits near the Cafpian.-This fpecies is of the fame fize with the Brown Owl, of which it is reckoned a variety by Mr Latham; by Mr Pennant it is quoted as a fynonime of the Canadian Ow , and Dr Gmelin fufpects it may be a variety of that fpecies. The bill is black; the under furfaces of the wings and the ventlet are white; the wing quill feathers are yellowifh outwardly, and white, chequered with black, on their under furfaces; the tail is blackifh, rounded, fhorter than the wings, barred with white, and whitifl at the fides.

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\text { 42. Java Owl.-37. Strix javanica. } 37 .
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Of an afh colour, reddifh in fome parts, with white and black fpots; the under parts are dity white, reddifh in fome parts, and fpotted with black. De Wurmb, in Lichtenb. magaz. iv. 2. 10. Lath. ind. orn. i. 64. n. 39 .
Inhabits Java.-Its fize is not mentioned.
43. New-zealand Owl.-Sirix novae-feelandiae.

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. orih, i. 6 . n. $45 .-$ New-zealand Owi. Lath. fyn. fup. 48 . n. 39 .
P. Spotted New-zealand Owl.-S. novae feelandiae maculata.

Of a brown colcur above, with white fpots; the under parts are tawny.
44. Cayenne Owl. - 39. Strix cayennenfis. 39.

The body is longitudinally ftreaked with reddifh, and waved tranfverfely with brown; the irides are tawny yellow.
S. cayennenfis. Lath. ind. orn. i. 64. n. 4I.--Chat-liuant de Cayenne. Buff. oif. i. 39r. Pl. enl, n. 442 .-Cayenne Owl. Lath. fyn. i. 146. n. 35 -

Inhabits Cayenne.-This fpecies is of the fame fize with the Screech Owl ; the bill is of a pale horn colour ; the claws are black.
45. Domingo Owl.-40. Strix dominicenfis. 40.

The under parts of the body are reddifh; the breaft is flightly fpotted.
S. dominicenfis. Lath. ind. orn. i. 64. n. 40.-Chouette de S. Domingue, Grand Cheveche de S. Domingue. Buff. oif. i. 392. n. 6.-St. Domingo Owl. Lath. fyn. i. I46. n. 34.

Inhabits the ifland of Saint Domingo.-This fecies has confiderable refemblance to the Brown. Owl, but the bill is confiderably larger, ftronger, and more hooked; the fpots on the breaft are diflant, and difpofed longitudinally.

## 46. New-fpain Owl.-4I. Strix Tolchiquatli. 4r.

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. Brif. av. i. 524. n. ro.-Tolchiquatli. Raj. av. 160.-New-fpain Owl. Lath. fyn. i. I 45 . n. 32.
Inhabits New Spain.-The bill, claws, and wing coverts are black; the plumage is very thickly fet.

## 47. Chichictli Owl.-42. Strix Cbichictli. 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. Brif. orn. 152. n. 9.-Chat-huant de Mexique. Briff. av. i. 523. n. 9.-Chichicti. Raj. av. 160.-Mexican Owl. Lath. fy̌n. i. 144 . n. 3 I.

Inhabits Mexico and New-fpain.-This fecies 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 reddifh brown, with white fpots; the un-
der parts being white, mixed with rufty.
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 fpecies meafures feven inches in length : The bill is dufky; the irides are yellow ; the crown of the head is fpotted with paler colour ; the region of the eyes is afh coloured; the toes are brown.
49. Little Owl.-44. Sirix pafferina. 12.

The wing quills have five rows of white fpots.
S. pafferina. Lath. ind. orn. i. 65. n. 46.-Noctua minor. Brif. av. i. 5 14. 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. zool. n. 70. Albin. ii. t. 12. Will. orn. IO5. 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.-Wleniftes Kauzlein. Frifch, av. t. 100.

Inhabits Europe and North America.-This fpecies is from feven to eight inches in length ; it is remarkably folitary, and only goes out at night, preying on bats, mice, and grafhoppers; it builds its neft either in the hollows of decayed firs, or half way up among the thickeft branches: The bill is whitifh brown; the head, back, and the wing coverts are light brown, with white fpots; the breaft is whitifh, variegated with rufty; the irides are pale yellow ; the tail is barred with white, and all its quill feathers are marked with regularly difpofed round white fpots; the feet are feathered to the claws.

## B. American Little Owl.-S. pafferina americana.

Is confiderably fmaller; the eyes are furrounded with white circles; the plumage has fewer white fpots.

Shipmofpifh. Arct. zool. ii. p. 236.

Is confiderably larger; the wings are variegated with brown and yellow. Lith. ind. orn. i. 66. n. 46 . $\beta$.

Noctua minor. S. G. Gmélin, in Nov. com. petr. xv. 447. t. 12.
Inhabits the Ruffian Empire.-This variety is twelve inches long ; the belly is mixed with yellow; the chin is white.

$$
\text { IV. S H R I K E. }-4 \cdot L A N I U S .44^{\circ}
$$

The bill is mofly ftraight, being only a little hooked at the end; each mandible, near the end, is armed with a fharp

## tooth-like procefs; the bafe 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 thofe which are called Pies; it agrees with the former in the ftrength, and, in fome degree, the form of the bill, and in living by prey; while it refembles the latter in its general manners and appearance, in the form of its tongue and tail, and in the fructure of its feet; it comes neareft in general form to the Magpie, and is named Pie-griefche by the French ornithologifts. The noftrils are generally round, and covered with fiff briftles; the toes are divided to their origin, except the middle one, which is flightly connected to the outer toe; the tail is, for the moft part, though not always, wedgelike, or longer in the middle than at the fides, the middle rifing higher than the reft, and the fides doubled down. In general, the birds of this genus are noify and quarrelfome, from which circumftance they are called Wranglers, Wariangles*, in old Englifh writers; they. prey on fmall birds and infects, and tear their prey to pieces, fticking the fragments on thorns, whence they get the name of Butcher birds; but in fyftem the fingle appellation of Shrike is preferable, derived from their noify manners. They are found in all quarters of the world, and in all climates, except within the Arctic circle.

## 1. Drongo Shrike.-1. Lanius forficatus. I.

The tail is forked; the forehead is ornamented with an erected creft; the plumage is greenif black.
L. forficatus. Lath. ind. orn. i. 66. n. 1.-Mufcicapa madagafcarienfis criftata, Briff. av. ii. 388. n. 16. t. 37. f. 4.-Drongo. Buff. oif. iv. 586.-Gobe-mouche huppé, de madagafcar. PI. enl. n. 189.-Crefted fork-tailed Shrike. Lath. fyn. i. 158.n. i.

Inhabits the Cape of Good Hope, Madagafcar, and China.-This fpecies is ten inches long; the creft is erected from the forehead, juft behind the bafe of the bill, but is fometimes wanting, perhaps in female fecimens; the tail is long.

## 2. Malabar Shrike.-Lanius malabaricus.

Of a bluifh black colour, the tail and the wing quills being black; the outer tail quill of each fide is very long and has no webs, except on the outer fide 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. 1 II,-Malabar Shrike. Lath. fyn. fup. 56. t. 108.

Inhabits Malabar.-This fpecies is feventeen inches and a half long; the feathers of the head and neck are very narrow; in fome fpecimens the head is ornamented with a very large, woolly, pendent creft, which covers the whole top of the head.

* 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 expreffion.-T.
- Vol. I.


## 3. Fingah Shrike.-2. Lanius caerulefcens. 2.

The tail is forked ; the body is bluifh black above, and the belly is white.
L. caerulefcens. Lath. ind. orn. i. 67. n. 3.-L. bengalenfis. Briff. av. ii. i89. Klein, av. 54. n. 8. Ger, orn. i. 74. t. 57. f. I.-Fingah. Buff. oif. i. 108.-Fork-tailed indian Butcher-bird. Edw. av. t. 56.-Fork-tailed Shrike. Láth. fyn. i. 158. n. 2.

Inhabits Bengal.-This fpecies is feven inches and a half long, and, notwithftanding its fmallnefs; is extremely troublefome to crows: The breaft is of a dufky afh colour.
4. Chefnut Shrike.-3. Lanius cafaneus. 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. r59. n. 3 .

Its place uncertain.-This fpecies is eleven inches long; the bill, wings, and legs are black; the fore-head is blackifh brown; the crown, hind head, nape, and fcrag are afh coloured; the middle tail quills are black, with afh coloured tips, and the outmoft tail quills are entirely afh coloured.
5. Crefted Shrike.-4. Lanius criffatus. 3.

The tail is wedge-like; the head is crefted; the body is reddifh, its under parts being: waved with brown and tawny.
L. criftatus. Lath. ind. orn. i. 72. n. 17.-L. bengalenfis rufus. Brif. av. ii. 173.-Crefted red Butcher-bird. Edw. av. t. 54--Crefted red Shrike.-Lath. fýn. i. ı70. n. i 8.

Inhabits Bengal.-This fpecies meafures fix inches and a half long; it. is fometimes found. without a creft, perbaps the crefted fpecimens may be the males, and thofe 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 fpot; the tail is reddifh above, and grey beneath; the legs, feet, and claws are black.

## 6. Canadian Shrike.-5. Lanius canadenfis. 4.

The tail is wedge-like; the head is crefed; the body is reddifh above, and whitifh afh: coloured beneath.
L. canadenfis. Lath. ind. orn. i. 72. n. 18. Briff. av. ii. 171. t. I8. f. 3: Ger. orn. i. 75. t. 62.. £. 2.-Pie-griefche huppé de Canada. Buff. oif. i. 316. Pl..enl. n. 479. f. 2.-Crefted Shrike. Lath. fyn. i. 182. n. 35. Aret. zool. ii. 239. n. 129.
Inhabits Canada.-The bill and claws are black; the creft is reddifh; the cheeks are durky, wirh white fpots; the throat and breaft are yellowifh red; the belly is whitifh, or afh 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.

Of an afh 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-griefche de la Louifiane. Pl. enl. n. 397.-Louifiane Shrike. Lath. fyn. i. 162. n. 5.
Inhabits Louifiana.-This fpecies is a good deal allied to the Cinereous and the Butcher fpecies : Under each eye is a black bar; the fix middle tail feathers are entirely black; the reft are white at both ends, and black in the middle; the fecondary wing quills are white at the tips.

## 8. Grey Shrike.-7. Lanius Nengeta. 7.

The tail is wedge-iike, and white at the tip; the body is afh coloured, its under parts being whitifh.
L. Nengeta. Lath. ind. orn. i. 68. n. 7.-Cotinga cinerea. Brif. 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. zool. ii. 242 A.

Inhabits Brafil, Surinam, Guiana, Ruffia, and Siberia.-This fpecies is nine inches long; it frequents marfhy places, and is gregarious; the irides are light fea-green; the wings, tail, and feet are blackifh; on each fide of the head a black line rifes from the bafe of the bill, and ftretches 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.

## 9. Hook-billed Shrike.-8. Lanius curvirofiris. 8.

The tail is wedge-like; the body is white; the back is black; the five outer primary wing quills have each a white fpot.
L. curviroftris. Lath. ind. orn. i. 72. n. 15.-Collurio madagafcarienfis. Briff. av. ii. 191. t. 19. f. 1.-Vanga, ou Becarde à ventre blanc. Buff. oif. i. 3 12.-Ecorcheur de Madagafcar. Pl. enl. n. 228.

Inhabits Madagafcar.-This feecies is ten inches long; it lives much on fruits: The points of both mandibles of the bill are bent backwards; the hind head is greenifh black; the greater wing coverts are obliquely fpotted wirh white; the inner webs of the tail quills are afh coloured, their outer webs are black, and the tips are white; the legs and feet are leaden coloured, and the claws are blackifh.

## 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 bafe.
L. collaris. Lath. ind. orn. i. 69 . n. ro.-L. capitis bonae fpei. Briff. av. ii. r82. t. i5. f. I.-Pie-griefche du cap. Pl, enl. 477-f, I.-Collared Shrike. Lath. fyı. i. 163. n. 7 .

Inhabits the Cape of Good Hope.-Is about the fize of the Butcher Shrike, meafuring twelve inches long: The head and bill are blackifh; the four middle tail quills are entirely black, the reft being white at the tips.

## 11. Luzonian Shrike.-10. Lanius lucionenfis. 10.

The tail is wedge-like; the body is reddifh grey, the tail being barred with brown at the end; the fides of the head have each a black fpot behind the eyes.
L. lucionenfis. Lath. ind. orn. i. 67. n. 5. Briff. av. ii. 169. t. 18. f. s.-Luzonian Shrike. Lath. fyn. i. 172.n. 21.

Inhabits the illand of Luzonia.-Is feven inches and a half long; the bill and upper parts of the body are brownifh grey; the under parts and fides of the body are reddifh white.

## 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 major. Gefn. av. 579. Aldr. orn. i. 384. f. p. 386. Raj. av. 18.-Falco congener. Klein, ftem. 9.t. 9. f. i. a.b. c.-Ampelis caerulefcens. Faun. fuec. n. 18i.-Caftrica palombina. Olin. uccell.t. 41.Ferlotta berettina. Zinnan. uov. 90. t. 19. f. 80.-Falconetti. Cett. uc. fard. 54.-Warfoger. Faun. fuec. n. 80.-Neuntoeder. Frifch, av. t. 60.-Pie-griefche grife. Buff. oif. i. 296. t. 20. Pl. enl. n. 445.-White Whifky-john. Phil. tranf. lxii. 386.-Mattagefs, or Greater Butcher-bird. Will. orn. 87. t. 10. Albin. av. ii. t. 13. Ellis, voy. ii. 28.—Great Shrike. Brit. zool. n. 71. t. 33. Arct. zool. ii. 238. n. 127. Catefb. carol. app. 36. Lewin, brit. b. i. t. 30.-Great cinereous Shrike. Lath. fyn. i. 160. n. 4.

Inhabits Earope and North America.-This fpecies lives in the woods, and is among the firft to. breed in fpring; it preys on fmall birds, which it ftrangles, or kills by crufhing their heads with its: bill, after which it fticks their bodies on a thorn and tears them to pieces; from this practice the genus has been called Butcher-birds; it is faid to watch the coming of Hawks, and to give them notice of birds concealed, that it may fhare in preying on fuch as it cannot mafter ; it builds a neft of dry grafs, lined thickly with feathers, in which it lays feven bluifh eggs, which are fpotted with brown. The bill and legs are black; the crown and fcrag of the neck are hoary; the cheeks are white, with a black tranfverfe line from the bafe of the bill; the lower parts of the body are white; the thighs are pale brown; the leffer wing coverts are black; the tail quills are black, and all, except the two middle ones, are tipt with white; this whitenefs increafes to the outermoft, which is almoft entirely white. The female has a brown bar behind each eye.

The whole body is white; the legs are yellowifh; the bill and claws are black. Latho. ind. orn. i. 68 . n. $6 . \%$ Syn. i. 162.
L. albus. Briff. av. ii. $145 \cdot A_{\text {. }}$
L. cinereus major. Briff. av. ii. ㅍ46. n. 2.-Groeferer Neuntoeder. Frifch, av. t. 59.-Geficrs great Butcher-bird. Will. orn. 88.

Thefe two varieties are found in Europe along with the firft.

## 13. Butcher Shrike.-12. Lanizus Collurio. 12.

The tail is fomewhat wedge-fhaped; the back is grey; the four middle tail quills are of a uniform grey colour; the bill is leaden coloured. Faun. fuec. n. 8 I .
L. Collurio. Scop. an. i. 24. 11. 19. Nozem. nederl. vog. t. 65. Gunth. neft. t. 23. Lath. ind. orn. i. 69 . n. 1 r.-Lanius minor rufus. Raj. av. 18. A. 4.-Micrulae congener. Raj. av. 67. n. i3. Will. orn. 195. n. 3.-Collurio. Brifl. 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. zool. n. 72. Lervin, brit. b. i. t. 30. Arct. zool. ii. 240. n. 13i. Lath. fyn. i. i67. n. 25. fup. 52.—Ferlotta rofla. Zinnan. uov. 9I. t. 15. f. 8 I.

Inhabits Europe.-This fpecies is about feven inches and a half long; it is migratory in England, where it arrives in May, and departs in September or October : It preys on frall birds, killing them by piercing the fkull with its bill; it feeds likewife on beetles, grafshoppers, and various other infects, which it frequently transfixes on a thorn of the Sloe, and rears in pieces; and imitates the cries of other birds on purpofe to entrap them. On each cheek a black line, rifing from the bafe of the bill, paffes through the region of the eyes: In the fermale, the head is reddifh grey, and the crofs line on each cheek is reddifh brown; the lower parts of the body are whitifh, with tranfyerfe blackifh femilunar fpots; the tail quills are brown, the outer ones being white on their exterior webs. The fe-. male lays fix white eggs, which have a circle of reddifh brown towards the broad end; fhe builds in hedges and bufhes.
Mr Pennant defrribes this fpecies fomewhat differently in his ArCtic Zoology: The crown and. rump are grey; the back and wing coverts rufty; the breaft and belly rofe coloured; the tail is black, the exterior quills being edged with white: The fernale is of a dirty ruft colour; her breaft and belly dirty white, with dufky femicircular lines; both have the black line on the cheeks. Perhaps thiss defcription refers to a different variety, which might be named Arßic Butcher: Shrike.

## ß. Variegated Butcher Shrike.-12. $\beta$. L. Collurio varius.

Of a grey colour, the under parts reddifh, with brown ीreaks; the fcapulars 2 re half white, half black; the three outermoft tail quills are reddifh white at the bafe and tips, the outermoft being reddifh white on its outer web. Lath. ind. orn. i. 70. n. ir. $\beta_{3}$,
L. arundinum. Klein, av. 54. n. Io.-Collurio varius. Eriff. orn. 201. n. 5.-Variegated Shrike. Lath. fyn. i. I68. n. 16.-Leffer variegated Butcher-bird. Will. orn. 189.

Mr Latham fufpects that this variety may poffibly be the female of the former; it wants the crofsline on the cheeks.

The body is variegated above with reddifh, white, and black; its under parts are rede difh white.
L. rufus. Brif. orn. 199. n. 3.-L. rutilus. Lath. fyn. i. 70. n. I2.-L. minor einarefeens. Raj. av. 19. A. 6.-Ampelis dorfo grifeo. Faun. fuec. i. 18o. t. 2.-Ampelis tertia. Kram. el. 363.Buferola, Ferlotta bianea. Zinnan, uov. 89. t. 15. f. 79.-Pie-griefche rouffe. Buff. oif. i. 103 . Pl. enl. n. 9. f. 2. and n. 3I. f. i.-Other Butcher-bird.- Will. orn. ang. 89. §4.-Wood-Chat. Brit. zool. n. 73. Lewin, brit. b. i. t. 32. Alb. av. ii. t. i6. Lath. fyn. i. 169. n. :17.
Inhabits with the former. - Is of the fame fize with the Common Butcher Shrike, and has the fame manners : The female is reddifh, tranfverfely ftreaked with brown, and marked on the under parts with brown femilunar fpots; the tail quills are barred with brown ; the eggs are pale rufty, elouded with afh eolour.

## 8. Senegal Burcher Shrike.-12. 8. L. Collurio Senegalenfis.

The fcapulars are of the fame reddifh colour with the body; the bafes of the wing quills are fpotted with white.
L. rutilus fenegalenfis. Lath. ind. orn. i. 7 I. n. 12. $\beta$.-Pie-griefehe rouffe du Senegal. Pl. enl. n. 477. f. 2.-Senegal Wood-Chat. Lath. fyn. i. 170. n. 17. a.

Inhabits Senegal,
ع. Black-crowned Butcher Shrike.-12.. . L. Collurio melanocepbalus. 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. \%.-Pie-griefehe à tete noir du Senegal. Pl. enl. n. 474.-Black-headed Senegal Wood-Chat. Lath. fyn. i. rifo. n. 17. e.
Inhabits Senegal.

## 14. Antiguan Shrike.-1 3. Lanius antiguanus. 29.

The tail is long and wedge-like; the body is yellowifh red above, and white below; the head, bill, wings, legs and feet, and upper furface of the tail, are black.
L. antiguanus. Lath. ind. orn. i. 72. n. 16.-Pie-griefche d'Antigue. Sonner. voy. 1r4.t. 70.— Antiguan Shrike. Lath. fyn. i. 171. n。 20.

Irhabits 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 taii quills are entirely blaek, but the reft are reddifh on their lower furfaces, and red at the points.

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\text { 15. Black Sh:ike.-14. Lanius niger. } 30 .
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Of a black colout; the fecondary wing quills being edged on their outer webs with brown; the tail is fomewhat wedge-like.
L. nime:. Lath. ind. orn. i. 73. n. 21.-Black Shrike. Lath. Fyn. i. 187. n. $3^{8 .}$

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. 3 I.

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. Ig2. n. 49. fup. 54.

Inhabits South America.-This fpecies is about the fize of a Blackbird, and has a firong refenblance to the Magpie, in colours and general appearance; it is ten incles long; the feathers of the greater wing coverts, and the fecondary wing quills are edged with white; the two middle tail quills are four inches and a half long; while the reft are only two inches; all of them are black, with white tips.

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\text { 17. Surinam Shrike.-16. Lanius atricapillus. } 32 \text {. }
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The tail is black and wedge-like; the crown, fcrag, fhoulders, and the wings, are black; the reft of the upper parts are moufe coloured; the under parts are bluifh afh.
L. atricapillus. Merrem, beytr. ii. 3o. t. 1o. Lath. ind. orn. i. 73. n. ig.

Inhabits Surinam.-Is about the fize of a Linnet, farcely 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 fpecies.

## 18. Pomeranian Shrike.-17. Lanius pomeranus. $33^{\circ}$

The upper parts of the body are black, the lower parts white; the hind head and the fcrag are dark rufty, furrounded with black; the rump is white; each wing is mark. ed with two black fpots. Muf. carlf. n. i.t. i..

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 whitifh from the bafe to their middles, and tipt with white. Mr Latham quotes this as a fynonime to the Red Butcher Shrike, No. 2.74, but the difference is very confpicuous.

Is afh coloured above, and white bencath; the crown is black, with longitudinal tawny ftreaks.
L. Tyrannus. Lath. ind. orn. i. 81. n. 53.-Mufcicapa Tyramus. Brif. av. ir. 39x-Tyrar. F1. enl. n. 537 .-Tiriri, Pipiri. Buff. oif. iv. 572 .-Picus criftata americana, Kleiner americanifcher Neuntoeder. Frifch, av. t. 62.-Tyrant Shrike. Lath. fyn. i. 184. n. 37.-Tyrant Fly-catcher. Arct. zool. 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 femaie
male fits on the eggs and rears her young, the male is aftonifhingly 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; Mufcicapae. The bill, legs, feet, and claws are blackifh brown; the irides are brown; the longitudinal ftreak on the head is compofed of tawny feathers, with blackifh tips; Mr Pennant defcribes this freak as being fcarlet; in fome inftances, faid by Mr Latham to be the females, it is yellow; the tail is brown, edged with reddifh.

## ß. Domingo Tyrant Shrike-18. $\beta$. L. Tyrannus dominicenfis.

Of a brown grey colour above, and white below, with the breaft afh coloured. Latho ind. orn. i. 8r. n. 53. $\beta$.
Tyrannus dominicenifs. Briff. av. ii. 394. n. 19. t. 18. f. 2.-SSt. Domingo Tyrant. Lath. fyn. i. 185. n. 37. A.

Inhabits St Domingo.-The tail quills are reddifh on their outer webs, and at the tips.

Of an afl colour above, and white beneath; the head and tail are black, the laft being tipt with white. Lath. ind. orn. i. 82. n. 53. \%.
Tyran de la Caroline. Buff. oif. iv. 577 .-Gobe-mouche de la Caroline. P1. enl. n. 676.—Carolina Tyrant. Catefb. carol. i. t. 55 . Lath. fyn. i. r86. n. 37. p.

Inhabits Carolina.

## §. Louifiana Tyrant Shrike.-18. ס. L. Tyrannus Tudovicianus.

Of a leaden colour above, and white below. Lath. ind. orn. i. 82. n. 53. $\delta$.
Tyran de la Louifiane. Buff. oif. iv. 579.-Gobe-mouche de la Louifiane. Pl. enl. n. 676.Louifiana Tyrant. Lath. fyn. i. 186. n. 37. c. Arct. zool. ii. 385 . n. 264.

Irhabits Louifina.-The bill is long, flat, hooked at the end, and black; the head and back are brownifh afh; the throat is laty blue; the belly is yellowifh; the primary wing quills are bright bay; thefe, with the larger wing coverts, are edged with white; the tail is long, of a brown afh com loitr, and white at the fides and tip.

## 20. Chinefe Shrike.-r9. Lanius Schach. 14.

Is yellow; with a black forehead and black wings. Lath. ind. orn. i. 75.n.25. Onb. voy. 227.

Chinefe Shrike. Lath. fyn. i. I73. n. 22.
Enhabits China. - Is of the fame fize with the Tyrant Slurike; the head and back of the neck are grey; the under part of the neck is dull reddifh white; the back and belly are pale dulky red; the wing quills are black, the primaries being white at the bafe, and the fecondaries whitifh at the tips.

Is black above, and yellow beneath; the crown is marked with a tawny ftreak, and a - white bar runs acrofs 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. ar. 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. fyns 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.
22. Rufous Shrike.-21. Lanius rufus. 17.

Of a red, or rufous, colour above, and white beneath; the head is greenifh black.
L. rufus. Lath. ind. orn. i. 77. n. 35.-L. madagafcarienfis rufus. Brif. av. ii. 178. t. 18. f. 4. Ger. orn. i. 75. t. 59.f. f.-Schet-bé. Buff. oif. i. 313 .-Pie-griefche rouffe de Madagafcar. Pl. enl. n. 298. f. 2.-Rufous Shrike. Lath. fyn. i. 180. n. 3 I.
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 greenifh glofs; on the female this is lefs fplendid, and the fore part of the neck is grey.

## 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. fenegalenfis ruber. Brif. av. ii. 185. t. 17. f. 2.Gonolak. Buff. oif. i. 3 14.-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, frrag, ventlet or under fide of the rump, and the lower wing coverts are yellow.
24. Yellow bellied Shrike.-23. Lanius fulpburatus. 19.

Is brown above, and yellow beneath; the head is blackifh, furrounded with a whitifh fillet.
L. fulphuratus. Lath. ind. orn. i. 79. n. 43.-E. cayanenfis luteus. Briff. av. ii. 176. t. iб. f. 4.-Becarde à ventre jaune. Buff. oif. i. 312.-Pie-griefche jaune de Cayenne. Pl. enl. n. 296.-Yellow-bellied Shrike. Lath. fyn. i. 188. n. 40.
Inhabits Cayenne.-Is the fize of the laft; the chin and throat are white; the legs and feet are: grey; the bill and claws are blackifh; the wings and tail are brown, edged with red.
L. cayanus. Lath. ind. orn. i. 80. n. 47 --L. cayanenfis cinereus. Briff. av. ii. 158. t. 14. f. 1.Becarde. Buff. oif. i. 3 II.-Pie-griefche grife de Cayenne. Pl. enl. n. 304.-Cayenne Shrike. Lath. fyn. i. 189. n. 41.

Inhabits Cayenne.-Is eight inches and a half long; the bill is red at the bafe, and black at the tip; the legs and feet are afh coloured, with black claws.

## ß. Spotted Cayenne Shrike.-24. 3. L. cayanus naevius.

Is afh coloured; the middle of each feather being marked with a longitudinal black ftreak. Lath. ind. orn. i. 80. n. 47. B.
L. cayanenfis naevius. Brif. av. ii. 167. t. 17. f. r.-Pie-griefche tachetée de Cayenne. Pl. enl. n. 377 .-Spotted Cayenne Shrike. Lath. fyn. i. 189. n. 41 I. A.

Inhabits with the former, and is of the fame fize.

Of a fmaller fize, and having a yellowifh forehead. Lath. ind. orn. i. 80. n. 47. $\gamma$. Syn. fup. 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 reddifl 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.

Of a grey colour above, and whitifh 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. ı. Ger. orn. i. 75. t. 61. f. ı.-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 brownifh bars, and their tips are of the fame general colour with their bodies; the reft are tipt with white.

Of an afh colour above, and whitif beneath, with black fraps on the cheeks; the tail quills are reddifh.
L. madagafcarienfis. Lath. ind. orn. i. 79. n. 46.-L. madagafearienfis minor. Brif. av. ii. 264. t. 16. f. r. 2:-Cali-calic, Bruja. Buff. oif. i. 315.-Petite Pie-griefche de Madagafcar. Pl. cnl. n. 299. f. 1. 2.-Madagafcar Shrike. Lath. fyn. i. 174. 11. 24.

Inhabits Madagafcar.-This fpecies is about the fize of a fparrow, being farcely five inches long; on each fide of the head the fpace between the eyes and noftrils, called the foraps or lora, 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 circumfance is wanting.

Is grey above and white beneath ; the temples and rump are red.
L. Emeria. Lath. ind. orn. i. 74. n. 23.-L. bengalenfis fufcus. Brif. av. ii. 175. n. 14.—Mul= cicapa 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 brownifh afh; the irides are whitifh; the belly, rump, and upper tail coverts, are red; each fide of the neck is marked with four curved fpots of black; the tail is light brown; the legs, feet, and claws, are black. Mr Latham adds, that the head is fomewhat crefted.
30. Blue Shrike.-28. Lanius bicolor. 27.

Of a blue colour above, and white below; háving a black frontlet. Mantiff. 1771, p. 124.
L. bicolor. Lath. ind. orn. i. 75. n. 26.-L. madagafcarienfis caeruleus. Briff. av. ii. 197.t. I6. f. 3. Gerin, orn. i. 75. t. 60. f. I.-Loxia madagafcarina. Syft. nat. ed. xii. 306. n. 42.-Piegriefche bleue de Madagafcar. Pl. enl. n. 32. f. 2. n. 298. f. r.-Blue Shrike. Lath. fyn. i. 178. n. 29.

Inhabits Madagafcar.-This feecies, which lives on infects, is fix 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 fide are blue; the frontlet, or feathers which furround the bafe of the upper mandible, the wing quills, except at their roots, the outermoft tail quills on each fide, the legs, feet, and claws, are black: The female differs from the male in having much lefs fplendid colours; her under parts are dirty white or light afh colour, and her wings are longer than thofe of the male. Mr Latham adds, that the tail of this fpecies is very flightly wedge-fhaped, being almoft equal at the end.

### 3.1. Manilla Shrike.-29. Lanius leucorbynchos. 28.

The body is blackifh above, and whitifh beneath; the bill and rump are white.
L. leucorhynchos. Lath. ind. orn. i. 77. n. 38. Mantif. 1771 , p. $5^{24}$.-L. manillenfis. Briff: av. ii. ı80. n. 17. t. i8.f. 2. Gerin, orn. i. 75. t. 62.-Longraien. Buff. oif. i. 3 1o.-Pie-griefche de Manille. Pl. enl. n. 9. f. I.-White-billed Shrike. Lath. fyn. i. I81. n. 33.

Inhabits Manilla.-Is feven inches long; the wings, tail, legs, feet, and claws, are black; the tail is equal.

The body is brownifh black above; the throat and breaft are dirty white; the belly is rufty.
L. ferrugineus. Lath. ind. orn. i. 76. n. 33.-Ferruginous-bellied Shrike. Lath. fyn. i. 163 . n. 8. fup. $5^{1 .}$
Inhabits at the Cape of Good Hope.-Is nine inches long; the bill is leaden coloured; the rump and tail are dufky brown; the legs and feet are black.

34 Pacific Shilie.-32. Lanius pacifcus. 36.
Is black; the head and neck having a green tinge, the belly, wings, and tail, being more dufky.
L. pacificus. Lath. ind. orn. i. 75. n. 28.-Pacific Slrike. Lath. fyn. i. 164. n. 10.

Inhabits the South Sea illands.-Is eleven inches long; the bill, which meafures three quarters of an inch, is dulky; 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.

Is brown above, the chin, throat, and belly, being afh coloured; the belly and ventlet are brownifl 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. ir.

Inhabits North America.-Is about eight irches long; the noftrils are fmall and rounded; the bife of the upper mandible is garnifhed with five or fix black briftes on each fide; the four niddle tail quills are univerfally brown; the reft are tipt with white on their inner webs; all of them are two inches long; the legs are fhort, with firong brown claws.

The head is crefted; the general colour is aff, the head, throat, and breaft, being black; the wing coverts are barred with vhite, and the tail is tipt with white. Lath. ind. orn. i. 76. n. 3r. Syn. fup. 54.

Inhabits Cayenne.-Is fix inches long: The female has no creft, but her crown is blackifh, and her throat and breaft are afh coloured.
37. Green Shrike.-34. Lanius viridis. 38.

The head, wings, and upper part of the body, are dufky green; the under parts of the body are white; the tail is black.
L. viridis. Lath. ind, orn. i. 75. n. 27.-L. madagafcarienfis minor viridis. Brinf. av. ii. 195. n. 25 . t. i5. f. 2.-Tcha-chert. Buff. oif. i. 3 10.-Pie-griefche de Madagafcar. Pl. enl. n. 32. f. 2.Green Shrike. Lath. fyn. i. I79. 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 lege, feet, and claws, are black.
38. White-headed Shrike-35. Lanius leucocepbalus. 39.

Is greenifh black above; the head, neck, and under parts of the body, being white.
L. leucocephalus. Lath. ind. orn. i. 77. n. 36.-L. madagafcarienfis major viridis. Briff. av. ii. 193. n. 24. t. 19. f. 3.-Tcha-chert-bé. Buff. oif. i. 3 14.-Pie-griefche verdatre de Madagafcar. Pl. enl. n. 374.-White-headed Shrike. Lath. fyn. i. 180. n. 32.
Inhabits Madagafcar.-This fpecies, which has fome affinity to the Rufous Shrike, is eight inches. long; the tail is dark greenifh black above, and black beneath; the bill, legs, feet, and claws, are leaden coloured.
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. ß.-Pie-griefche dominicaine. Sonner. voy. 55.t. 26.-Dominican Shrike. Lath. fyn. i. 181.

Inlabits the Phillippine iflands.-This fpecies is a little larger than a Sparrow; it flies with vaft fwiftnefs, is extremely bold, and is particularly troublefome to Crows: Dr Gmelin fufpects it may be a variety of the Manilla Shrike, formerly defcribed, and it is accordingly arranged as fuch by Mr Latham. The bill is conical, ftrong, and afh coloured, being garnifhed at the bafe with briftles; the wings extend beyond the tip of the tail when clofed.

## 40. Panay Shike.-37. Lanius panayenfis. 41.

Is brown; the head, throat, breaft, and belly, being red.
L. panayenfis. Lath. ind. orn. i. 78. n. 40.-Pie-griefche rouge de Panay. Sonner. voy. ir 4. t. 70.-- Panayan Shrike. Lath. fyn. i. 182. n. 34.

Inhabits the ifland of Panay.-Is about the fame fize with the Butcher Shrike; the bill, legs, and feet, are biack; the crown, back, wings, and tail, are brown; the irides are flame coloured.

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. I89. n. 42.

Inhabits the ifland of Panay.-Is twice as large as the Red variety of the Butcher Shrike; the: wings are each marked with a white band acrofs the primary quills.
42. Variegated Shrike.-39. Lanius varius. 43.

Is brown afh above, the throat and breaft being yellowifh buff colour; the belly, rump, and ventlet, are dirty brownifh white; the interfcapulary region is white; the tail and wings are brown.
L. varius. Lath. ind. orn. i. 78. n. 39.-White-fhouldered Shrike. Lath. fyn. i. 190. n. 43 -

Inhabits Brafil.-The bill, legs, and feet, are black; the fhoulders are each marked with a confpicuous white fpot; the forehead and cheeks are marked with paler brown fpots.

## 43. Spotted Shrike.-40. Lanius naevius. 44.

Is black above, and afh coloured beneath; the wings have each an oblong white fpot on the coverts.
L. naevius. Lath. ind. orn. i. 8 I. n. 5 1.-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. Dufky Shrike.-4I. Lanius obfcurus. 45.

Is dull black above, and white beneath, having a white line over each eye.
L. obfcurus. Lath. ind. orn. i. 81. n. 52.-Duky Shrike. Lath, fyn. i. 191. n. 46.

Suppofed, by Mr Latham, to inhabit America.-This fpecies is about the fize of the laft; the bill: is pale; the wings and tail are darker than the body; the legs and feet are brown.
45. Brown Shrike.-42. Lanius fufcus. 46.

Is brown above, and white beneath; the ftraps are yellowifh.
Brown Shrike. Lath. fyn. i. 19I. n. 47.
Its place unknown. -The tips of the fecondary wing quills, and the edges of the primaries, are Yellowifh; the bill is pale, with a black tip; the legs and feet are black.

Is red; the wing and tail quills being marked with eye-like fpots, and tipt with black.
L. ruber. Lath. ind. orn. i. 78. n. 41.-Red Lanius, or Red Butçler-bird. Bancroft, guian. 154.-Red Shrike. Lath. fyn. i. 192. n. 48.

Inhabits Surinam.
47. American Shrike.-44. Lanius americanus. 48.

Is black above, and afh 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 fpecies is lefs than the Great Shrike, and is much akin to the Louifiana Shrike ; it is confidered as the fame with that fpecies by Mr Pennant; Mr Latham makes two diftinct fpecies, yet confufes the fynonimes, quoting the defcriptions of this fpecies by Dr Gmelin and Mr Pennant, along with Dr Gmelin's Louifiana fpecies to what he names the Louifiana Shrike, and referring, with Mr Pennant, the Louifiana fpecies of the Pl. enlum. to this; I have preferred, however, the authority of Dr Gmelin, efpecially as Mr Latham and Mr Pennant do not agree together, and the latter naturalift feems 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 increafing gradually on each quill, as it recedes from the middle, till the outermoft is nearly altogether white ; the primary wing quills have each a fmall white fpot, and the ridge of each wing is marked with a white fpot.

## 48. Leffer Shrike.-45. Lanius minor. 49.

## Of an afh colour, with rofe coloured breaft and belly.

L. italicus. Lath. ind. orn. i. 71. n. 13.-L. minor. Gerin. orn. i. 72. t. 54.-Pie-griefche d'Italie. Buff. oif. i. 298. Pl. enl. n. 32.-Leffer grey Shrike. Lath. fyn. fup. 54. Arct. zool. ii. 241. A.

Inhabits Europe, particularly Italy, Spain, and Ruffia.-This fpecies is allied to the Grey Shrike, formerly defcribed: The fore-head is black, and a black line, from the root of the bill, paffes through the orbits on each fide to the back of the neck; the throat is white; the head, fcrag, and fides of the neck, the back, and wing coverts are afh coloured, the rump being paler; the ridges of the wings are white ; the primary wing quills are black, with a white fpot on each near the bafe; the fecondaries are black, with white tips; the tail is wedge-fhaped, 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.

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-weft coaft of America.-Is feven inches and a quarter in length ; the bill, legs, and feet are black; a white line, with a black, line directly below it, extends
over each ese to the nape of the neck; the leffer wing coverts are black, and the larger coverts white, dafhed with black down the fhafts; the primary wing quills are duiky, fringed, or edged, with yellowifh brown; the fecondaries are black, edged and tipt with white; the tail is black, and fomewhat rounded, its four outermon quill feathers being tipt with white; the rump is afh coloured, its feathers being edged with grey.

## 50. Boulboul Shrike.-Lanius Boulboul.

Of a black colour, the breaft and belly having a cinereous tinge; the wings are brown, each having two white bands. Lath. ind. orn. i. 80. n. 49. Syn. fup. 57.

Inhabits India.-Is about the fize of the Fieldfare ; the bill, legs, and feet are yellow.

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 dulky.
52. Short-tailed Shrike.-48. Lanius bracbyurus. 52.

The top of the head is rufty grey, with white eyebrows, and a black band acrofs the orbits; the body is grey afh above, and yellowifh white beneath; the tail is rounded. Pall. it. iii. 693. n. 5.e
L. brachyurus. Lath. ind. orn. 76. n. 32.-Short-tailed Shrike. Lath. fyn.i. i. 166. n. 1.3.

Inhabits Hungary, and is more rarely found in Dauria.-This fpecies is about the fize of the Butcher Shrike; the rump is fomewhat rufty; the throat and ventlet are almoft white; the wings are blackifh, the feathers of the coverts having grey tips; the tail has ten fhort quills of a greyifh brown, and, except the middle quills, they are tipt with white.

## 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 reddifh grey above, and yellowifh 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. I4.

Inhabits rocky places on the river Onon in Siberia.-This fpecies refembles the Butcher Shrike.in fize and general appearance.

Is thickly variegated with black and white, in fhort interrupted bars; the tail is rounded. Muf. ad. frid. ii. 12.
L. doliatus. Lath. ind. orn. i. 80. n. 50.-L. cayanenfis ftriatus. Briff. av. ii. 187. n. 21.t. 29. f. 3.-Pie-griefche rayée de Cayenne. Pl. enl. n. 297. f. 2.-Black-and-white Butcher-bird. Edw. av. v. 35. t. 226.—Pied Shrike. Lath. fyn. 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 longifh, of a white colour, tipt with black, and are capable of being erected into a kind of creft; the tail and wings are black, with tranfverfe oblong white fpots.

## 55. Jocofe Shrike.-5 I. Lanius jocofus. 24.

The tail is rounded; the body is grey; the lower eyelid is purple; the ventlet is blood red. Amoen. acc. iv. $23^{8 .}$
L. jocofus. Lath. ind. orn. i. 73. n. 22.-Merula finenfis criftata minor. Briff. av. ii. 255. t. 2 I . f. 2.-Petit Merle huppé des Indes. Sonner. voy. ii. 189. t. 109.-Petit Merle huppé de la Chine. Buff. oif. iii. 318. Pl. enl. 508.-Jocofe Shrike. Dixon, voy. f. p. 360. Lath. fyn. i. I75. n. 26.
Inhabits China and India.-Is about the fize of a Lark, meafuring feven inches and a half long; the crown is black; the temples, chin, and throat are white ; the belly whitifh; the tail is brown, its four outermoft quills having white tips; the legs, feet, and claws are black; the bill is fraighter than in other feecies of the genus, but is notched on each fide near the point. Mr Latham adds, that it is named Koo-kai-koon by the Chinefe, and Boulboul by the inhabitants of Bengal; he likewife gives as a variety of this fpecies the Chinefe Nuthatch, of his own Synopfis and of an after genus in the Syftema 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 fpecies.

## 56. Rock Shrike.-52. Lanius infauftis. 25.

The back is afh coloured; the tail is red and rounded, its two middle quills being afh coloured, with a black crofs bar.
Corvus infauftus. Lath. ind. orn. i. 159. n. 22. Faun. fuec. n. 93. Brun. orn. 10.-Corvus rufficus, f. Raben-art. S. G. Gmel. it. i. 50. t. Ir.-Merula faxatilis. Gefin. av. 732. Raj. av. 68. n. 3. Briff. av. ii. 238.-Merle de roche. Buff. oif. iii. 35 I. t. 23. Pl. enl. n. 562.-Codiroffo maggiore. Olin. uc. t. 47-Greater Red-ftart. Albin, av. iii. 5 I. t. 5 5. Will. orn. angl. 197. t. 36.-Rock Shrike. Lath. fyn. i. 176. n. 27.-Rock Crow. Penn. Arct. zool. ii. 25 2. F.-Paiffe folitaire. Belon, oif. 322.-Stein-Rotela. Gefn. av. 732.-Lappfkata, Olyckfugel, Gertrudsfogel, Ulyksfuegl. Faun. fuec. 93 -
This variety meafures near eight inches long; the bill is blackifh, about an inch long, and notchec: at both fides; the wings, legs, and feet are blackifh; the tail, which is three inches long, has its two middle quills brown, and the reft red; the head and neck are dufky afh, with fmall red and brown fpots; the upper part of the back is dufky brown, its hind part afh coloured; the breaft and belly are orange, with finall white and brown fyots; the rays of the feathers are foft.

The back is blackifh, mixed with red and bluifh afh, its hind part being white; the
head and neck are bluilh afh. Is a good deal fmaller.
VoL. I.

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 .

Inhabits moft of Europe, and is found in Siberia.-This fpecies lives in woods, deferts, and mountainous places, building in holes and caverns of inacceffible rocks, where it lays three or four eggs each brood : It has confiderable affinity in external form to the Thrufh and Crow, and accordingly Mr Latham ranks the larger variety with Crows, and the fmaller with the Thrufhes; it refembles the Shrike, however, in its noify and quarrelfome manners, and in feeding on any remains of flefh that comes in its way, and likewife feeds on worms and infects, with which it feeds its neflings; its fong is tollerably pleafant.

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. 24 I.
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 brownifh, with grey margins, and marked with crofs lighte er brown lines; the tail is brown ${ }_{2}$ and is lined with lighter brown, like the wings.

## II. $P$ I $E$.

## The bill is convex, and fomewhat compreffed, or flattened, at the fides.

## V. PARROT-5. PSITTACUS. 45 .

The bill is much hooked; the upper mandible is moveable, and in many fpecies is covered with a cere: The noftrils are rounded, and are fituated in the bafe of the bill: The tongue is large, blunt, rounded, and flefhy: The feet have trvo toes placed forwards, and two backwards.

This very numerous genus is fo remarkably diftinguifhed from all others, that it may be reckoned an arrangement of nature rather than of artificial fyftem; this was noticed by Pliny, who gives an exceedingly good diftinctive mark from the tongue, which he juftly obferves 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 diffinctnefs, but the natural voice is loud, harfh, and unpleafant. Parrots live chiefly in pairs, of one male with a fingle female, but thefe affociate in vaft multitudes; they may be reckoned to hold the fame place among oirds that Apes and Monkeys occupy among the Mammalia; like thefe they are very numerous, very imitative, very mifchievous, and very ufelefs; they are likewife chicfly confined to the tropical regions of Afia, 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 fpecies is furnifled with a creft; the legs are for the moft part fhort; the feet have four toes, two of which are turned back, but one of thefe can be brought forwards on occafion ; the toes are very flexible, and are ufed like hands for holding any thing and carrying it to the mouth; they may be called prehenfile feet from this property, to diftinguifh them from common climbing feet, which are not fo varioufly ufeful ; they climb with great facility, uing the bill to affift the feet. Parrots are very long lived; they feed chiefly on nuts, fruits, and feeds, and can crack the bardeft nut-fhells with their bills. They breed in hollows of trees, withonit conftracting any neft, and lay two or three white eggs each brood, which muft be frequentiy each feafon, from the vaft numbers that every where abound in the hot countries.

To facilitate, in fome meafure, the difovery of any particular fipecies, in fuch a prodigious number, Dr Gmelin and Mr Latham have arranged this genus under two fublivifions, which are dilinguifhed from each other by the form of their tails ; in the firf divifion, Pfittaci macrouri, the tails are long, and wedge like, the mildle tail quills being longer than thofe on each fide; in the fecond fubdivifon, Phitiait b:athyri, the tails are thort and the end is equal, all the feathers being of an equal
length, or nearly fo. In the Englifh nomenclature, which is adopted for this tranflation, regard has been paid chiefly to precifion, preferving as much as poffible the names already in ufe, particularly as employed by Mr Latham and Mr Edwards, but efpecially avoiding long compounded terms when others equally diftinguifhable could be found : The Maccaws have ufually very long tails, and their bodies are generally larger than the other fpecies; the Cockatoos are furnifhed with crefts; the Parrakeets are motly fmall, but as thefe, the Parrots, and Lorys, have no particular diftinction, thefe names are not here employed, efpecially as thefe differences in name, in a great many inftances, have been chofen arbitrarily.

* Having long wedge-like tails. 1. Ara.—1. Pfittacus Macao. I.

Of a red colour, having naked wrinkly cheeks; the wing quills are blue above, and ruddy beneath; the fcapulars are variegated with blue and green. Scop. an. i. 26.

Pf. Macao. Lath. ind. orn. i. 82. n. i.-Pf. maximus alter. Aldr. orn. i. 665. f. p. 666. Raj. av. 29. n. 2.-Ara brafilienfis. Briff. av. iv. 184. t. 19. f. i.-Ara premier. Fermin, furin. ii. 173.-Ara rouge. Buff. oif. vi. I79. Pl. enl. n. i2.-Maccaw. Albin, av. i. t. in. Will. orn. angl. 73.-Red-and-blue Maccaw. Edw. av. t. I58. Bancr. guian. I56. Lath. fyn. i. 199. n. I.

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 fpecies 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 thofe of pigeons, and a good deal refembling the eggs of partridges; on thefe the male and female fit alternately; when caught young it may be eafily tamed, but the old birds are very ftubborn; the flefh is eaten, but is dry and taftelefs. The general colour of the body is a full fcarlet ; the wing quills, efpecially the outer ones, are blue; the coverts are moftly 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. Pfittacus Aracanga. 52.

Is pale fcarlet, with naked wrinkly cheeks; the fcapuiar 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. ini.Ara jamaicenfis. Briff. av iv. ı88. n. 2.-Petit Ara rouge. Buff. oif. vi. ı80. Pl. enl. n. 64 i.Jamaica Macaw. Alb. av. ii. t. ı 7. Brown, jam. 472.-Red-and-yellow Maccaw. Bancr. guian. 156. Lath. fyn. i. 201. n. 2.

Inhabits Guiana, Brafil, and Jamaica.-This fpecies is faid by Dr Gmelin to equal the former, but: Mr Latham informs us that it is fmaller, and fufpects it may only be a younger bird of the fame feecies. The wing quills are fcarlet, mixed with violet colour, on their upper furfaces, and dufky red beneath; two of thefe quills in the middle of each wing are dufky red on the upper half of their upper furfaces.

Is green, with blue wings; the tail and forehead are red; the cheeks are mofly naked, with feathered lines.
Pf. militaris. Lath. ind. orn. i. 83. n. 3.-Largeft guiana Parrot. Bancr. guian. 158.-Great green Maccaw. Edw. av. t. ${ }^{1}$ 13.-Military Maccaw. Gent. mag. xiii. f. p. 505. Lath. fyn. 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 ftripes or lines, leaving the flkin naked in the intervals.
4. Ararauna. - 4. Pfittacus Ararauna. 3.

Is blue above, and yellow beneath; the cheeks are naked, with feathered flripes.
Pf. Ararauna. Lath. ind. ori. i. 83. n. 4.-Pf. maximus cyano-croceus. Aldr. orn. i. $65_{4}$. Raj. av. 28. n. I. 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. $3^{6}$.-Blue-and-yellow Maccaw, and Brafilian Ararauna. Will. orn. angl. ino. n. i. and ini. n. 4. t. 15.-Blue-and-yellow Maccaw. Edw. av. t. 159. Lath. fyn. i. 204. n. 4 .
ß. Blue Ararauna.-4. $\beta . P$. 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-Iuteus. Klein, av. 24. n. 2.Ara jamaicenfis cyano-crocea. Brif. av. iv. igi. n. 3.-Blue Maccaw. Alb. av. iii. t. ıo. Lath. fyn. i. 205. n. 4. A.
Inhabits Jamaica, Guiana, Brafil, and Surinam.-This fpecies equals any of the preceding in fize. The upper part of the neck, back, wings, and tail are blue; the under part of the throat, breaf, 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 friped with feathered fpots of a bluifh-black colour, which are wanting in the blue variety.

Is violet blue, the head and neck being paler; the chin and orbits are yellow and naked.
Lath. ind. orn. i. 84. n. 5. Muf. parkinfon.
Its place not mentioned.-This fpecies is nearly equal in fize to the former, meafuring 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 fame colour, with greenifh edges ; the legs and feet are blackilh afl colour.

Is dufky green above, the head being green mixed with blue; the chin, throat, and. upper
upper part of the brealt are reddifh; the under part of the breaft and the belly are green; the rump is reddifh 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 fecies, which meafures 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 yellowifh green on their under furfaces.
7. Black Maccaw.-6. Pfittacus ater. 54.

Is black, with a fplendid 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, defc. deṣ Indes or. 490.—Black Maccaw. Lath. fyn. i. 206. n. 6.

Inhabits Guiana.-This fpecies is found on the barren ridges and rocky mountains in the interior paits of the country.

## 8. Obfcure Parrot.-7. P/ittacus ob/curus. 4.

Is brown, with naked red cheeks; the crown is variegated with blackifh afh; the tail is afh coloured. Haffelqu. it. 236 . n. 18.
Pf. obfcurus. Lath. ind. orn. i. 84. n. 8.-Obfcure Parrot. Lath. fyn. i. 206. n. 7.
Inhabits Africa.-This fpecies is about the fize of a Magpie; the bill and frontlet, the legs, feet, and claws are black; the fpace 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 afh coloured.
9. Noble Parrot.-8. Pfittacus nobilis. 5 .

Is green, with naked cheel:s, and fcarlet fhoulders. Muf. ad. frid. ii. $\mathrm{I}_{3}$.
Pf. nobilis. Lath. ind. orn. i. 85. n. 9.-Noble Parrot. Lath, fyn. i. 207. n. 8.
Inhabits Surinam.-This feccies is about the fize of a Turtle dove ; the face is white and naked.

Is green, with naked cheeks; the wing and tail quills are blue abore and purplifh underneath. Muf. ad. fid. i. i3. Scop. an. i. 27. n. 23.
Pf. feveras. Lath. ind. o=a. i. 85. n. 10.-Maracana. Marçr. braf. 207. Will. orn. 112. n. 5.6. Raj. av. 29. n. 5. Sloan, jam. ii. 297.-Ara brafilienifs viridis. Brifi. av. iv. I98. n. 6.-Ara vert. Buल.. of. vi. 1)4. ti: 8 .--Ara vert de Erefil. Fl. enl. n. $3^{83}$--brafilian green Maccaw. Edw. av. t. 229. Lath. fyn. i., 208. n. 9. fup. $5^{8}$.


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Ara brafilienfis erythrochlora. Briff. av. iv. ı98. n. 7.
Inhabits Brafil, Guiana, and Jamaica.-Is about feventeen inches long; the bill and claws are black; the cheeks are ftreaked with black; the irides are golden yellow; the plunage is green; the fore-head is purplifh chefnut; the crown of the head is blue; the upper furface of the tail is green, growing blue towards the tip; the legs and feet are brown, with black claws. In the Dufky variety the plumage is of a dufky or darker green colour; the fore-head is brown, and the crown of the head is greenifh blue; perhaps the difference may be owing to age or fex.

Is green, with naked cheeks, fcarlet houlders, and purple red bill.
Pf. Eupatria. Lath. ind. orn. i. 85. n. 11.-Pfittaca ginginiana. Brifi. av. iv. 343. 11. 64. t. 29. f. I.-Perruche de Gingi. Pl. enl. n. 239.-Grande Perruche à ailes rougeatres. Buff. oif. vi. 156.-Gingi Parrot. Lath. fyn. i. 209. n. Io.

Inhabits Gingee in India.-Meafures 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 fomewhat afh coloured; the wings and tail are green; the upper coverts are red; the legs and feet are reddifh, with black claws; the two middle feathers of the tail are greatly longer than the reft; the bill is of a fcarlet colour, verging to purple

## 12. Japonefe Parror.-11. Pfitacus 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. 68 ı. Raj. av. 34. n. 3.-Pfittaca japonenfis. Brif. av. iv. $3^{62}$. n. 7 r.-Perruche vert-etrouge. Buff. oif. vi. I59.-Red-and-yellow, or Pale-green Parrot. Will. orn. angl. in6.-Japonefe Parrot. Lath. fyn. i. 209. n. II.

Inhabits the fouthern parts of Japan.-The tail is longer than the body, its two middle quills being green with white fhafts, and the reft red with black fhafts; the bill and irides are red; the cheeks, before and behind each eye, are marked with blue fpots; the interfcapulary region is blue; the chin is rufty red ; the under parts of the body are ftreaked longitudinally with black lines ; the legs, feet, and claws are black.

## 13. Amboina Parrot.-12. Pfittacus amboinenfis. 9.

Is fcarlet, the back being blue; the wings have each a green fpot.
Pf. amboinenfis. Lath. ind. orn. i. 86. n. I3.-Pfittaca amboinenfis coccinea. Briff. 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. fyn. i. 2 Io. n. 12.

Inhabits Amboina.-Is fifteen inches and a half long; the bill, legs, feet, and claws are red, the firft having a black tip; the under coverts of the tail are violet in the middle ; the two middle tail quills:
meafure nine inches and a half long, and are of a brownifh 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. P/ittacus cyanociphalus. 10.

Is green, the head and chin being blue.
Pf. cyanocephalus. Lath. ind. orn. i. 80. n. 14.-Pfittaca cyanocephala. Briff. av. iv. 359. t. Ig. f. 2.-Perruche à tete bleue. Buff. oif. vi. 145. Pl. enl. n. 192.-Blue-headed Parrot. Lath. fyn. i. 211.11. 13.

Inhabits India.-Is not quite twelve inches long; the upper mandible is yellow, with a pale afh coloured tip, the lower mandible is wholly afh coloured; the fpace round the eyes is naked and yellowifh ; the under parts of the body are yellowifh green; the chin is bluifh violet; the fides of the neck are yellow ; the under furfaces of the wings are afh coloured; the under furface of the tail is yellowifh afh ; the legs and feet are bluifh, with grey claws.
15. Red-breafted Parrot.-14. Pfittacus baematotus. 50.

Is green, the breaft being red, the face blue, and the crown marked with a yellow femilunar fpot.

Pf. haematotus. Lin. mantif. 177 I , p. 574 --Pfittaca amboinenfis varia. Brifi. av. iv. 364. n. 72.--Perruche à face bleue. Buff. oif. vi. 1 50.-Perruche d'Amboine. Pl. enl. n. 6r.-Redbreafted Parrakeet. Edw. glean. t. 232.-Red-breafted Parrot. Lath. fyn. i. 212. n. I4.

Inhabits Amboina.-This fpecies meafures fifteen inches long; the bill and cere are yellowifh; the frontlet and part of the crown are blue; the hind head is greenifh; the feathers of the breaft are edged with blue; the legs and feet are blackifh.

## ß. Molucca Red-breafted Parrot.-14. $\beta$. PS. baematotus moluccanus.

The breaft is red, varied with yellow; the head, chin, and middle of the belly, are blue. Lath. ind. orn. i. 87 . n. $17 . \beta$.
Perruche des Moluques. Buff. oif. vi. 150 . Pl. enl. n. 743.-Orange-breafted Parrot. Lath. fyn. i. 212 . n. 14. A.

Inhabits the Molucca iflands.-The bill is reddifh white, with a yellowifh cere; the whole head is blue; the belly is blue on the middle, forming a large fpot.
\%. Southern Red-breafted Parrot.-14. \%. Pf. baematotus novae-bollandiae. The breaft is red, varied with yellow; the head, chin, and whole of the belly, are blue. Lath. ind. orn. i. 87. n. 17. \%

Blue-bellied Parrot. Brown, illuftr. 14. t. 7. Lath. fyn. i. 213 . n. i4. b. Phillips voy. to Bot. bay, f. p. 152.

Inhabits New-holiand.-The bill is red, with a yellowifh cere; the head, neck, and whole of the belly are blue.

## 8. Davies Red-breafted Parrot.-PS. baematotus daviefianus.

The breaft is red, varied with yellow; the head, chin, and belly, are blue; the fcapu-
lars are fpotted with red and yellow. Lath. ind. orn. i. 87. n. 17. \%. Muf. Daviefianum. 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 reddifh edges, and that the fcapulars are fpotted with red and yellow.

## 16. Black-crowned Parrot.-15. Pfittacus atricapillus. 55.

Is blue above, with a black crown; the chin, throat, and breaft, are red; the belly and ventlet are green; the neck is furrounded by a red and green collar.
Pf. attricapillus. Lath. ind. orn. i. 88. n. 18.-Pf. orientalis exquifitus, Loeri. Seba, muf. i. $6_{3}$. t. 38. f. 4.-Pf. capite nigro. Klein, av. 25. n. 16.-Ara moluccenfis varia. Briff. av. iv. 197. n. 5.-Grand Perruche à bandeau noir. Buff. oif. vi. 158.

Inhabits the Molucca iflands.-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.

## 17. Tabuan Parrot.-16. Pfittacus tabuenfis. 56.

Is green above; the head, neck, breaft, and belly, being reddifh purple; the crown is feparated from the hind head by a femilunar blue bar; the primary wing quills, and mof 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 iflands.-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 fpurious wings are blue; the fecondary wing quills are green, with blue edges; the two middle tail quills, which meafure eight inches long, are blue, edged and tipt with green ; the reft are blue, with black fhafts; the legs and feet are dulky.

## ß. Scarlet Tabuan Parrot.-PS, tabuenfis coccineus.

Is green; the head, neck, breaft, and belly, being fcarlet; the neck is feparated from the back by a femilunar blue bar; the wings are green; the rump is blue, and the tail is deep blue. Lath. ind. orn. i. 88. n. 19. $\beta$.
Tabuan Parrot. Phillips, Bot. bay, f. p. 153 .
Inhabits New-fouth-wales.-Is of the fame fize 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 farlet ; the wing coverts are croffed by a light yellowifh green bar ; the legs and feet are afh coloured.

VoL. I,

The head, neck, and breaft, are red; the hind head is marked with a blue fpot and two black femilunar bars; the wings and part of the back are green; the reft 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. 21 g . n. 17 .

Inhabits Papua, in New-guinea.-Is fixteen inches long; the bill, legs, and feet are red; the wings are fhort; the hind part of the back is marked in the middle with a longitudinal ftreak, which is red at the fides and blue in the middle; the wings are each marked, near the origin, with an oblong yellow fpot; the plumage of the thighs is yellow; the firft two-thirds of the tail is green, its extreme third being yellow.
B. Purple-breatted Papuan Parrot.-17. B. Pf. papuenfis porphyrofethos.

The breaft is purplifh; the belly is croffed by a black bar edged with green. Lath. ind. orn. i. 88. n. 20. 阝. Syn. i. 21 5. n. 17. A.

Inhabits with the former.-The black band on the belly is edged on its fore or upper part with green.

Is fcarlet ; the hinder part of the back is bluifh black; the back is marked with a yel-
low fpot between the wings. Lath. ind. orn. i. 89. n. 20. $\gamma$. Syn. i. 215 . n. 17. в.
Inhabits with the former.-The crown of the head is bluifh black; the fore part of the back is blue, varied with green; the fides and the thighs are yellow.
d. Green-bellied Papuan Parrot.-17. s. Pf. papuenfis chlorogafter.

The middle part of the belly is green. Lath. ind. orn. i. 89. n. 20. ס. Syn. i. 215.n. 17. c.
Inhabits with the former.-The breaft is marked with an interrupted crefcent of a yellow colour.

Is red; the wing and tail quills being tipt with green ; the wings have each a remarkable blue fpot ; the orbits are brown.
Pf. borneus. Lath. ind. orn. i. 89. n. 21.-Pfittaca coccinea bonarum fortunarum infulae. Brif: av. iv. 373 . n. 77.-Lori-perruche rouge. Buff. oif. vi. 137. n. I.-Long-tailed fcarlet Lory. Edw. av. t. 173. Lath. Yyn. i. 216. n. 18.

Inhabits India.-Is nine inches and a half long; the bill is orange; the fpace round the eyes is brown and naked; the wing quills are varied with green and blue dots; the two outer tail quills have a greenifh tinge; the under tail coverts are red, with blue edges: The crown, fcrag, and breaft have a violet tinge; the legs and feet are brown.

Is fcarlet, variegated with brown and violet; the upper part of the head and neck, the breaft, and a band behind the eyes, are violet; the feathers of the greater wing coverts are tipt with light brown; the leffer coverts, and the tail quills, are brown, with a violet tinge.
Pf. coccineus. Lath. ind. orn. i. 89. n. 22.-Pfittaca indica coccinea. Brif. 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 reddifh, with a black tip; the legs and feet are brown; the under parts of the body are varied with brown and violet: In the fpecimen defcribed by Buffon the primary wing quills are yellow; this circumftance therefore fhould either conftitute a feparate variety, or is to be conffdered as an omiffion by Dr Gmelin.
21. Beautiful Parrot.-20. Pfittacus elegons. 59.

Is brown above, and red beneath, with a red head and neck; having a greenifh brown tail tipt with whitifh.
Pf. elegans. Lath. ind. orn. i. 89. n. 23.-Beautiful Lory. Lath. fyn. i. 217. n. 20.
Inlabits the Molucca iflands.-Is fifteen inches long; the feathers on the upper parts of the body are brown, edged with red and green; thofe of the fhoulders, and the wing and tail quills have blue edges ; the outer tail quills are tipt with white ; the bill is yellowifh brown.

## $\beta$. Green beautiful Parrot - 20, $\beta$. Pf. elegans viridis.

The upper part of the body, the wings, and the tail, are green; the head, neck, and breaft, are fcarlet. Lath. ind. orn. go. n. 23. . Syn. i. 218. n. 20. A.

Inhabits with the former.-This variety meafures only twelve inches in length; the bill is of $a$ leaden colour, with a yellow tip.
22. Gueby Parrot.-21. Pfittacus guebienfis. 60.

Of a bright red, or fcarlet colour; the wing quills are black, with a tranfverfe red band; the tail is brownifh red.
Pf. guebienfis. Lath. ind. orn. i. 90. n. 24.-Petit Lori de Gucby. 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 inland of Gueby.-Is nine inches and a half long; the bill and irides are flame coloured; a purple fhade begins at the back of the neck and fpreads downwards to the breant: Mir Latham adds that the interfcapulary region, the breaft and belly, are purple, the laft being of a darker fhade.
23. Violet Parrot.-22. Pfittacus janthinus. 6r.

The head and upper parts of the body are red; the under parts are violet; the fhoul. ders are blue; the tail and wings are varied with green and red.

Pf. guebienfis janthinus. Lath. ind. orn. i. go. n. 24. B.-Perroquet violet. Ferm. furin. ii. 175.Violet Lory. Lath. fyı. 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 laft, marks his fufpicion that it may poffibly be a diftinct fpecies; the great diverfity of the two places in which they are found ftrongly confirms this idea.

## 24. Variegated Parrot.-23. Pfittacus variegatus. 62.

The prevailing colour is fcarlet; the nape of the neck, beginning of the back, the breaft and belly, are bluifh 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 pofterior part of the belly verges towards greenifh black; the tail quills are reddifh on the inner webs near the bafe, and blue on the exterior webs near the tips.

## 25. Pennantian Parrot.-P Pittacus Pennantii.

Is fcarlet; the fore part of the back is black, waved with fcarlet; the fides and throat are blue; the wing quills are each marked with a white fpot. Lath. ind. orn. i. go. n. 26. Syn. fup. 6r.

Inhabits New-fouth-wales.-Is fifteen inches long; the leffer wing coverts are bluifh 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.

## . Phillips Pennantian Parrot.-Pf. Pennantii Phillippi.

The middle of each wing is marked with a pale band. Lath. ind. orn. i. gr. n. 26. $\beta$. 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 fcarlet 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 ftretches 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 dulky, with black claws.

## 26. Splendid Parrot.-P/ittacus gloriofus.

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. $\mathrm{N}^{\circ}$. xviii. t. 53 .

Inhabits New-holland.-The body is about the fize of a Pigeon, or rather larger, and with the tail meafures fixteen inches long: The under parts of the body are paler than the upper, and want the femilunar black fpots, formed by the black edges of the feathers on the back; the fhoulders of the wings are black; the wing coverts ate blue, the fecondary coverts being tinged with green; the primary wing quills are black, and the fecondaries blue; the rump is red, without fpots; the two middle tail quills are green, and the reft are blue; the bill is pale; the legis, feet, and claws are afh coloured : The colours of the female are much lefs brilliant, and her back is olive green.

Is black, with a fplendid blue tinge; the orbits are brown and naked; the under furface of the tail is red.
Pf. novae-guineae. Lath. ind. i. 91. n. 27.-Lori noir de la nouvelle-guinée. Sonner. voy. i $75^{\circ}$. t. ifi.-Black Lory. Forreft. voy. i33. Lath. fyn. i. 22 i. 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 brownifh red.

Is fcarlet, with filvery naked orbits, and a cref on the head; the two middle tail quills are fcarlet, the fide ones are rofe 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. 38 I. n. 80 .- Perruche huppée. Buff. oif. vi. 160 .-Bortius 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 whitifl cere; the eyes are black ; the chin is grey ; the fhoulders and wings are mixed red and green.

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\text { 29. Jandaya.-26. Pfittacus } \mathcal{J} \text { andaya. } 65 .
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The head, neck, and under parts of the body, are yellow, the reft being green.
Pf. Jandaya. Lath. ind. orn. i. 92. n. 30.-Pfittacula braflienfis lutea. Briff. av. iv. 399. n. 9i.-Jandaya. Will. orn. ir6. s. 4. n. 5. Raj. av. 34 . n. 5. Buff. oif. vi. 262.-Yellow-headed Parrot. Lath. fyn. i. 224. n. 26.

Inlabits 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.

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. $3^{1 \text { I.-Ff. aurantius. Miller, illuftr. t. 5. A.-Pf. croceus. }}$ Klein, av. 25. n. 15.-Pf. luteus macrourus. Frifch, av. t. 53--Pfittaca angloenfis lutea. Briff: av. iv. 37 1. n. 76 .-Perruche jaume. Buff. oif. vi. 147 --Angola Perroquet. Albin. av. iii. t. 13 .Angola yellow Parrot. Lath. fyn. i. 224. 1. 27.

Inhabits Angola.-Is near a foot in length, the body being about the fize of a Turtle-dove: The bill is greenifh, with a pale afh coloured cere; the irides are yellow; the back is fpotted with greenifh yellow; the outer edges of the wing coverts are blue; the fix middle tail quills are yellowifh green on both webs, the outer ones being blue on the exterior webs; the legs, feet, and claws are ruddy.

## 31. Guarouba.-28. Pfittacus Guarouba. 66.

Is jellow ; the larger wing coverts being green.
Pf. luteus. Larh. 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 fpecies, which is eleven inches long, is of a folitary nature, and lefs numerous than moft others of the genus; it is however readily made tame, but is not eafily or perfectly taught to fpeak: The bill is grey; the eyes are black. Mr Latham adds that in young feecimens of this fpecies the back and wings have a few fcattered green fpots, and that the tail quills have green edges.

## ß. Mexican Guarouba.-2S. $\beta$. PS. Guarouba mexicanus.

Is yellow, with a reddifh head, orange coloured neck, and green wings. Lath. ind. orn. i. 93. n. 32. $\beta$.

Pf. mexicanus, Avis cocho. Seb. muf. i. t. 64. f. 4.—Pfittaca mexicana lutea. Briff. av. iv. 374 . n. 75--Mexican jellow 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. Pfittacus carolinenfis. I3.

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. i.I. Arct. zool. ii. 242. n. I 32.

Inhabits Guiana, and migrates into Carolina and Virginia during the feafon of ripe Mulberries.This fpecies 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 deftructive to orchards; it builds in hol-. low trees in low fwampy places, is eafily tamed, but does not readily learn to fpeak: The bill is yellowifh 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 dulky, mixed with blue and green; the legs and feet are white.
33. Alexandrine Parror.-30. Pfittacuis Alexandri. 14. Is green; with a red breaf, 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. i.-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 Afia, and the Indian iflands.-This fpecies derives its trivial name from having been firtt noticed during the Indian expedition of Alexander of Macedon. The body is about the fize of a Pigeon, and, with the tail, meafures fixteen inches long; the bill is red; the nape of the neck is red, which furrounds the neck like a collar ; at the bafe of each wing is a purple mark; the tail is yellowifh on its under furface; the legs and feet are dufky.
$\beta$. Rofe-ringed Alexandrine Parrot.-30. $\beta$. PC. Alexandri rofeocollari.
The collar is rofe coloured. Lath. ind. orn. i. 98. n. 46. $\beta$.
Pcrruche à collier rofacé. Buff. oif. vi. 152. Pl. enl. n. 5 51.-Rofe-ringed Parrakeet. Lath. fyn. i. 255 . . 37 . A.

Inhabits Africa.-Is fifteen inches and a half long; the hind head is bluifh 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 confifts of a very narrow line of pale rofe colour furrounding the neck; the legs and feet are afh coloured.

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\%. Purple-ringed Alexandrine Parrot.-30. $\gamma$. PS. Alexandri purpureocollari. The collar is purple. Lath. ind. orn. i. 98. n. 46. $\gamma$.

Pfittaca indica torquata. Briff. av. iv. 326. n. 56.-Eaft-indian Bracelet Parrakeet. Albin, av. ii. t. 18.-Purple-ringed Parrakeet. Lath. fyn. i. 236. n. 37. в.

Inhabits India.-Is feventeen inches long; the upper mandible of the bill is orange, and the lower mandible black; the crown is bluifh green; the throat and breaft are pale rofe colour ; the orbits are brown.

Pfittaca borbonica torquata. Briff. av. iv. 328. n. 57. t. 27. f. r.-Perruche à double collier. Buff. oif. vi. 143.-Perruche à collier de Bourbon. Pl. enl. n. 215.-Double-ringed Parrakeet. Lath. fyn. i. 236. n. 37. c.

Inhabits the ifle of Bourbon.-Is thirteen inches and a half long; the throat and breaft are ftreaked with yellow; the general colour is green; the collar round the neck is rofe coloured, and double, being wider at the fore part ; the fides of the neck, immediatcly below the under mandible of the bill, are black.
s. Blue headed Alexandrine Parrot.-30. є. Pf. Alexandri cyanocepbalus.

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 flefhy 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 afh coloured.-This bird fhould rather have been ranked as a variety of the Blue-headed Parrot, $\mathrm{N}^{\mathrm{o}} .343$. with which it agrees, efpecially as the particular characteriftic of the Alexandrine fpecies, the collar, is wanting.-T.

## ऍ. Javan Alexandrine Parrot- - $30 . \zeta$. Pf. Alexandri javanicus.

Is green; the head being mixed blue and yellow, with black temples; the throat and breaft are reddifh.

Pf. Ofbeckii. Lath. ind. orn. i. 87. n. 16.-Pf. javanicus. Ofbeck, 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 yellowifh; 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 conftituted a feparate fpecies, or at leaft to have been ranked as a variety of the Blueheaded Parrot. Both in this inftance and the former variety the authority of Dr Gmelin has been adhered to, perhaps too rigidly, but no great confufion can thereby be occafioned to the ftudent of Natural hiftory, as the error is pointed out; to the experienced Naturalift no fuch precaution is ne-ceffary.-T.

Is green ; with tawny cheeks, the wings and tail being fomewhat hoary. Muf. ad. frid. i. 14.

Pf. pertinax. Lath. ind. orn. i. 94. n. 34. Borowfk. nat. ii. 94. n. 15.-Pfittaca illiniaca. Briff. av. iv. 353. n. 68.-Tui aputejuba. Marcgr. braf. 206. Raj. av. 34. n. 2.-Tuif 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 ufual with this genus; it is found in Brafil and other parts of the tropical regions of America, and even paffes the winter in the fouthern countries on the Miffifipi, but in fummer is found almoft as high as lake Michigan; it is gregarious, and feeds on chefnuts, peafe, and other feeds and fruits; it forms its neft in the large hills of ants or terinites; is very active, but is a bad fcholar in learning to fpeak; the flefh is eaten in America. The bill is afh 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 fufpects that this fpecies may only differ from the Carolina Parrot in fex.

Is pale green; with yellow head and neck ; the rump is fcarlet ; the wing and tail quills are blue at the tips.
Pf. erythropygius. Lath. ind. orn. i. 94. n. 35.-Crimfon-vented Parrot. Lath. fynn. i. 229. n. 3 r.
Inlabits fouthern Afia.-This fpecies is of a middle fize.
36. Emeraldine Parrot.-33. P/ittacus finatagdinus. 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 coafts of the Straits of Magellan.-Is thirteen inches long; the bill, legs, and feet are dulky; the tail is green at the tip. Dr Gmelin exprefles a doubt, by a point of interrogation, whether the place of this fpecies be, as is faid, in a country fo inhofpitable as that furrounding the Straits of Magellan ; but the general fact of Parrots being found there is indifputably proved by the concurrent teftimony of the moft refpectable navigators, from Spilbergen and Dampier to the companions of Admiral Byron's voyage of difcovery. Arct. zoòl. ii. p. 244.

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. ${ }_{17}$ 6. Lath. fyn. i. 242. n. 40.

Inhabits the warmer parts of America.-Is about the fize of a large Thrufh : The under parts of the body are greenifh yellow; the bill is blackin; the cyes are black; the legs and feet are reddin; the exterior webs of the wing quill feathers are greenifh ; the tail is very long.

## 38. Brown-throated Parrot.-35. Pfittacus aeruginofus. 17.

Is green, with afh coloured orbits; the crown, and the primary wing quills, being biue.
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. ir. t. 177. Lath. fyn. i. 243. n. 41 .
Inhabits the tropical parts of America, and the Weft Indian inands.-Is fomewhat more than ten inches long, and the tail is rather fhorter than the body: The frontlet, cheeks, chin, and throat are Vol. I.
greyifh brown mixed with yellow; the bill, cere, legs; feet, and claws are afh coloured; the irides are yellowifh brown; the under parts of the body are yellowifh green; the under furface of the tail is yellowifh.

## 39. Red-billed Parrot.-36. P/ittacus rufirofris. 18.

Is green, with red bill, orbits, legs, and feet; the tail quills being tipt with blue. Muf. ad. frid. ii. 13 .
Pf. rufirofris. 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. i. Will. orn. 116.-Small long-tailed green Parrakeet. Brown, jam. 472.-Long-tailed green Parrakeet. Edw. av. t. 175. Lath. fyy. i. 230. n. 33 .

Inhabits South America.-Is twelve inches and a fialf long, gregarious, eafily tamed, docile, and an cxcellent fpeaker: The red of the legs, feet, claws, and orbits is crimfon or flefh coloured; the upper mandible of the bill is blood red, the under mandible being black; the irides are orange yellow.
B. Guiana Red-billeá Parrot:-36. B. Pf. rufiroftris guianenfis.

The bill, legs, feet, and claws, are whitilh red; the orbits are afh coloured. Lath. ind. orn. i. 96 . n. 39. $\beta$.
Pfittaca aquarum Lupiarum. Briff. av. iv. 330. n. 58.-Ajuru-catinga. Raj. fyn. 33. n. 6. 7. Will. orn. 76. Id. angl. i15.-Guiana green Parrot. Bancr. guian. ír. Lath. fyn. i. 23 I. n. 33. A.

Inhabits South America.-This variety is about the fize of a Thrufh ; the irides have two coloured circles, of which the outer is reddih and the inner afh coloured.

## 40. Orange-billed Parrot.-37. Pfittacus ornatus. 19.

Is yellowifh green, with red hind head, chin, and breaft; the crown and the ears being blue; the orbits are afh coloured.
Pf. ornatus. Lath. ind. orn. i. 91. n. 28. Borowf. nat. ii. 94. n. 16.-Pfittaca indica varia. Binf. orn. iv. 366. n. 73.-Avis. paradifiaca orientalis. Seb. muf. 95. t. 6o. f. 2. 3.-Perruche Lori. Luff. oif. vì. 145 - Perruche variée des Indes orientales. Pl. enl. n. 552 .-Lory Parrakeet. Edw. av. t. 174. Lath. fyn. i. 221. n. 24.

Inhabits India.-Is eight inches long: The bill is pale orange, with a brownifh cere ; the irides are orange ; the crown is bluifh black, and the cheeks are each marked with two fpots of the fame colour, one brhind and the other above the eyes; the under furface of the tail is reddifl ; the legs and feet are afh coloured.

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\text { 41. Jıguilma.-38. Pfıtacus Faguilma. } 69 .
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Is green, with tawny orbits; the wing quills being tipt with brown. Molin. chil. 228.
Pf. Joguilma. Lath. ind. orn. i. 96. n. 40.
Inhabts Chili.-This fpecies is very imperfectly defcribed; it pafles the fumner months in the great chain of the Andes, lives in very numerous flocks, making a great noife, and is very prolific ;
it feeds on the buds of trees, and plants, making great harock in the country, and is reckoned tender high flavoured food.
42. Guiana Parrot. - 39. Pfituactes guianenfis. \%o.

Is green, with red fpots on the cheeks, and red bracelets; the leffer wing coverts being fcarlet, and the larger coverts yellow.
Pf. guianenfis. Lath. ind. orn. i. 96. n. 4r.-Pfittaca gujanenfis. Eriff. av. iv. $33^{\text {r. . n. }}$ 59. t. 28. f. I.-Perruche pavouane. Buff. oif. vi. 255 --Perruche de la Guianne. Pl. enl. n. 167. $407 .-$ Pavouane Parrot. Lath. fyn. i. 232. n. $34 \cdot$
Inhabits Guiana and the Weft India Inands.-This feecies meafures twelve inches long, and is of a ferocious difpofition : The bill and cere are whitifh, the former having an afl coloured tip; the wing quills are yellow on their under furfaces, and are edged with blackifh near the tips: In the younger animal, which is reprefented in the 167 th plate of the Plańches enluminées, while the other gives the full grown bird, the red fpots on the cheeks are either altogether wanting or fearcely perceptible: The legs and feet are grey, with blackifh claws.

## 43. Luzonian Parrot.-40. Pfittacus marginatus. 7 I .

Is green; the wing coverts are black, the feathers of the leffer coverts having yellowilh brown edges, and the greater coverts being edged with blue.
Pf. marginatus. Lath. ind. orn. i. 96. n. 42.-Perruche de Luçon. Sonner. vog. 80. t. 44.-Varied-winged Parrot. Lath. fyn. i. 234. n. 36.

Inhabits the ifland of Luzonia.-The frontlet is fplendid 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 grais green above, and yellowifh green beneath ; the legs and feet are blackifh.

## 44. Sonnerats Parrot.-41. P位tacus Sonneratii. 72.

Is green, with a blue collar ; and having a red fpot 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 greyih green; the wings and back are grafs green; the two middle tail quills are grafs green, and the reft of a greyifh green; the legs and feet are blackifh grey.

## 45. Pondicherry Parrot.-42. Pfittacus pondicerianus. 73.

Is green; the face and fore part of the head being yariegated with blue and white, and having black ftreaks, like whikers, on each fide, extending from the bill to the chin.
Pf. pondicerianus. Lath. ind. orn. i. 99. n. 48.-Perruclie à mouftaches. Buff. oif. v. 149. Perruche de Pondichery. Pl. enl. n. $5^{17}$.-Murtacho Parrakeet, Lath. fyn. i. 23 8. n. $3^{8 .}$

Inhabits India, near Pondichery.-Is eleven inches long; the breaft is purplifh blue; the wing coverts are varied or fpotted with yellow.
$\beta$. Bearded Pondicherry Parrot.-42. $\beta$. Pf. pondicerianus barbatus.
Is green; the fore part of the face being chefnut, with a brown line on each fide from the noftrils to the eyes; the chin is black, extending backwards on each fide like a beard. Lath. ind. orn. i. 99. n. $4^{8 .} \beta$.
Bearded Parrakeet. Lath. fyn. i. 238. n. 38. A.:
Inhabits with the former.-This variety is of the fame fize with the former, from which, perhaps, it may only differ in fex: The nape of the neck is purplifh red; the wing quills have blue edges; the bill is red; the crown of the head is green; the legs and feet are dufky.

## 46. Red headed Parrot.-43. Pfittacus crythrocephalus. 74.

Is green, the head being red mised 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. 34 6. n. 65. t. 29. f. 2.-Perruche à tete rouge. Buff. oif. vi. I44.-Perruche à tete rouge de Gingi. Pl. enl. n. 254.-Dlofom-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 afh coloured; the inner edges of the tail quills are yellow; the bill is reddifh.

## f. Bengal Red-headed Parrot.-43. $\beta$. Pf.erytbrocephalus bengalenfis.

Is yellowifh green, the crown and cheeks being rofe coloured; the hind head, and the two middle tail quills, on their upper furfaces, are blue, the reft being edged with blue. Lath. ind. orn. i. roo. n. 50, $\beta$.

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. Aibin, av. iii. 7. t. 14.-Rofe-headed ring Parrakeet. Edw. glean. t. 233. Lath. fyn. i. 239. n. 39. A.

Inhabits Bengal.-Is ten inches long; the upper mandible is yellow, and the under mandible black, with a brownith cere; the under fide of the body is yellowifh green; the wing coverts are marked with a dulky red fpot; the interior edges of the tail quills, and their under furfaces are yellow; the chin and under fides of the cheeks are marked with a black line; the legs, feet, and claws, are afh coloured.
2. Borneo Red-headed Parror-43. \%. Pf. erytbrocepbalus borneus.

Is green ; the head, chin, throat, brealt, and fore part of the belly, being of a reddifh peach-ilofom colour. Lath. ind. orn. i. Ioo. n. 5 o. $\%$.

Lomean Parrakect. Lath. fyn. i. 240. n. 39. B.

## BIRDS.

PIES.
Inhabits Borneo.-Is twelve inches long; the bill is reddifh, its under mandible being black; the cere and orbits are afh coloured; the fore-head is afh coloured, with a green fpot, and having a black line acrofs from one eye to the other; the wing coverts are marked with a red fpot; the inner edges of the wing quills are blue; the legs, feet, and claws are afh coloured. Mr Latham gives a different defcription of this variety, faying that the head is purplifh blue, its fore part being green, with a black crofs line ; each cheek is marked at its lower part with an oblique black bar; the under part of the throat and breaft are reddifh chefnut.

## 8. Malacca Red headed Parrot.-43. 8. PJ. erythrocephalus malaccenfis.

Is yellowifh green; the hind head and orbits being rofe coloured. Lath. ind. orn. i. roo. n. 50 . $\delta$.

Grande Perruche à long brins. Buff. oif. vi. 155.-Perruche de Malac. Pl. enl. n. 887.-Malacca Parrakeet. Lath. fyn. i. 24I, 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 ftretches from the fauces towards the crown of the head, is wanting.

## 47. Spot-necked Parrot.-Pfittacus bimaculatus.

Is green; having two oblong black fpots on the neck, and a large fulphur yellow fpot on each wing. Muf. carlf. 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 bafe of the bill to the beginning of the breaft, and with a number of fmall black fpots; the yellow fpot on each wing is occafioned by the edges of the quill feathers being yellow.

## 48. Brown-fronted Parrot.-44. Pfittacus 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. $3^{8 .}$.

Brown-fronted Parrakeet. Lath. fyn. i. 243. n. 4I. A.
Inhabits the tropical regions of America.- Is eleven inches and a half long; the "irides are chef. nut or yellowifh brown; the crown is bluifh; the edges of the wing quill feathers are blue. Dr Gmelin fufpects this may be a variety of the Brown-throated Parrot, $\mathrm{N}^{\circ} \cdot 3^{81}$. ${ }^{\circ}$ and Mr Latham ranges it as fuch.

Is green above, and yellowifh green beneath; having a yellowilh brown or buff coloured forehead. Lath. ind. orn. i. 95. n. 37. 阝. Ger. orn. ii. 29. t. 127 . ?
Perruche à front jaune. Pl. enl. n. 838.--Buff-fronted Parrakeet. Lath. fyn. fup. 6I. n. 135.

Inhabits Cayenne.-Is ten inches long; the bill is dufky; the fore-head and orbits are buff coloured, or pale ycllowifh 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, $\mathrm{N}^{\circ} .380$. but as it feems to agree more nearly with the preceding fpecies, which is placed here after the example of Dr Gmelin, it has been thought better to infert it in this place.-T.

$$
\text { 50. Lace-winged Parrot.-45. Pfittacus olivaccus. } 76 .
$$

Is olive-brown, with a bluifh fpot 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. 1 30.- Perruche aux ailes chamarées. Buff. oif. vi. 15 I.-Perroquet de Luçon. Pl. enl. n. 287.-Lace-winged Parrakeet. Lath. fyn. i. 244. n. 42.
Inhabits the inland 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 duflky. This feecies has confiderable affinity to the Lazonian Parrot, No. 387 .

## 51. Dubious Parrot.-P Pittacus dubius.

Is green, with a reddifh 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 wholewing quills, and the four middle tail quills, have blue tips; the outer tail quills are tipt with yellow..

## 52. Orange-bellied Parrot.-P Pittacus chryfogafter.

Is green, with a greenifh bill, and having an orange coloured belly. Lath. ind. orn. i. 97. n. 45 . Syn. fup. 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 greenifh.
53. Greenifh Parrot.-46. Pjittacus virefcens. 77.

Is greenifh; the outer wing quills being white, edged and tipt with yellow.
Pf. virefcens. Lath. ind. orn. i: Ico. n. 5 1.-Pfittaca cayennenfis. Briff. av. iv. 334. n. 60. t. $2 \%$ f. 2.-Perruche à ailes variées. Buff. oif. vi. 259.-Petite Perruche verte de Cayenne. Pl. enl. n. 359.-Yellow-winged Parrakect. Lath. fyn. i. 244. n. 43.

Inhabits Cayenne.-This fpecies meafures eight inches in length; it is very numerous, not at all. fiy, extremely docile, and feeds much on the flowers of the Erytbrina coralliodendion: The bill and cere are whitifh; the wing coverts fartheft from the body are greenifh blue; thofe neareft the body are bluill green; the inner coverts are fulphur yellow; the leffer coverts are white at the bafe, and
on their inner webs, their outer webs and tips being yellow; moft of the wing quills have yellow outer webs and tips, with yellowifh white inner webs; the firft five neareft 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 yellowifh; the legs and feet are grey.
54. Waved Parrot.-47. Pfittacus verficolor. 78.

Is green, with brown head and throat, the latter being waved with tawny; the wings are biue, with a flame yellow bar; the belly is pale bluilh purple, with brown waved lines.

Pf. verficolor. Lath. ind. orn. i. ıo1. n. 52.-Parruche à gorge variée. Buff. oif. vi. 259.-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 fpecies: The bill, legs, feet, and claws are black; the irides are flame coloured; the frontlet is dufky blue, or flate colour, above, and $1 k y$ blue next the bill; the tail is lilac, or pale purplifh blue, above, and reddifh brown on its under furface; the under parts of the body are brown; the throat is aurora, or flame yellow, colour: This fpecies is extremely rare.

Is green; the feathers on the head, neck, and breaft, having orange coloured edges. Lath. ind. orn. i. IoI. 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 defrribed, being on the lower part of both webs at the tips, give the appearance of fcales; the fhoulders are fcarlet ; the rump and middle of the belly are blood red; the bill, legs, and feet are dulky; the orbits are naked and pale.

## 56. Carnation Parrot.-48. Pfittacus incarnatus. 79.

Is green, with carnation red bill, legs, feet, and claws; the cere and orbits are whitifh; the chin and wing coverts are red.
Pf. incarnatus. Lath. ind. orn. i. ror. n. 54--Pfittaca indica. Brif. 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 .

Inlabits India.-Is eight inches and a half long, of which the tail meafures 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-breafted Parrot.-49. Pfittacus murinus. So.

Is olive; the face, chin, and breaft, being filver grey; the wing quills are green.
Pf. murinus. Lath: ind. orn. i. iof. n. 55.-Perruche. Pernetty, voy. to falk. ifles. i. 312.Perruche

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 fpecies is of mild and docile manners; it meafures ten inches in length, of which the tail is a half: The bill, legs, and feet are grey; Mr Latham fays the bill is carnation red.

## 58. Horned Parrot.-50. Pittacus cornutus. 8 I.

Is green, with a fcarlet head, having two long extended feathers like horns.
Pf. bifetis. Lath. ind. orn. i. 102. n. 56.-Horned Parrot. Cook, voy. ii. t. p. iro. Lath. fyn. i. 248. n. 48. t. 8.

Inhabits New-Caledonia.-Is eleven inches long: The bill, legs, and feet are dark blackifh blue; the temples are orange yellow, the irides golden yellow, and a pale yellow, or ftraw coloured, collar furrounds the neck; the two elongated feathers from the crown of the head are each an inch and a half long, of a dufky colour with red tips; the wing coverts are dufky 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 furface of the tail is black.
59. Caledonian Parrot.-5 1. Pfittacus caledonicus. 82.

Is olive, with a greenifh yellow crown; the tail quills have whitifh tips, and the outer edges of the four outermoft 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 bluifh, 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 greenifh, and of the under parts a yellowifh hue; the legs and feet are dufky or blackifh blue. Both Dr Gmelin and Mr Latham fufpect this of being the female of the preceding.
60. Zealandian Parrot.-52. Pfittacus Seelandicus. 83.

Is brownifh-green; with a dark purple front, greenifh tawny crown, and fcarlet rump.
Pf. novae-feelandiae. Syft. nat. ed. Gm. i. 328. n. 83.-Pf. zealandicus. Lath. ind. orn. i. ro2。 n. 58.-Red-rumped Parrot. Lath. fyn. i. 249. n. 50.

Inhabits New-zealand.-Is fifteen inches long; from the bafe of the bill a red freak extends. through each orbit; the tail quills are bluifh, the two middle ones having green edges; the bill is dark blue, with a black tip; a fmall number of the feathers on the crown are pale yellow, and on the middle of the back there are a few of a pale rufty brown colour ; the temples are pale green; the belly is greenifh afh; the primary wing quills are brown, with blue edges; the fecondary wing quills, and the feathers of the baftard wing are dufky, with green edges, pale rufy tips, and chefinut fhafts; the legs and feet are black.

## 61. Hollandian Parrot.-53. Pjittacus bollandicus. 84.

Is olive-brown; with a yellow creft on the head, and an oblique white bar on the wings.

Pf. novae-hollandiac. Syft. nat. ed. Gm. i. 32S. n. 84. Lath. ind. orn. i. ro2. n. 59.-Crefted Parrakeet. Lath. fyn. i. 250 . n. 51.

Inhabits New-holland.-Is twelve inches long: The creft is compofed of fix flender feathers, two of which are almoft three inches long, the reft being a good deal fhorter; behind each eye is a red fpot; the bill is pale; the legs and feet are durky: The body and head of the female are more on the tawny fhade, the rump and tail having tranfverfe grey ftreals.

## 62. Wallefian Parrot.-P Pittacus wallicus.

Is green ; the four middle taill quills are barred with green and black, and the reft with black and yellow.

Pf. formofus. Lath. ind. orn. i. 103. n. 60.
Inhabits New-fouth-wales.-This rare fpecies is fuppofed by Mr Latham to be of the fame fize with the laft: 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 fpots on the middle, except on the three outermoft, which have a fingle yellow fpot on their inner webs, and all thofe fpots are fo arranged as to form an interrupted yellow bar acrofs the wing; the two middle tail quills meafure nine, and the outer ones three, inches in length; the four middle tail quills are green with above twenty narrow tranfverfe black bars, and the reft are yellow with a good many black bars, the bars grow lefs perceptible towards the tips. This beautiful fpecies is defcribed by Mr Latham from a mutilated fpecimen, which had only the wings and tail.

Is olive-green; with blackifh brown crown, dufky red rump, and dufky tail and wings.
Pf. ulietinus. Lath. ind. orn. i. 103. n. 6I.-Society Parrot. Lath. Cyn. i. 250 . n. 52.
Inhabits Ulietea, one of the Society iflands.-Is ten inches and a half long; the bill is blackifh blue, with a black tip; the wing and tail quills have black edges; the feathers on the under parts of the body have a yellowifh tinge; the legs and feet are black.

Is green; the head, chin, and belly, being blue; the fore part of the breaft red, its hinder part and the under furface of the tail yellow, and the neck has a white collar.
Pf. femicollaris. Lath. ind. orn. i. io3. n. 62.-White-collared Parrot. Lath. fyn. i. 25 I. n. 53. Penn. gen. of birds, 4 to ed. 59. t. 2.

Inhabits the iffands of the Indian ocean.-The fize is not mentioned ; the bill is red ; the crown of the head is marked with a white crefcent ; the thighs are variegated with blue and yellow:.

Is green ; with golden-yellow crown, the cere and orbits being carnation red.
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Pf. braflienfis. Lath. ind. orn. i. 103. n. 63 . Ger. orn. ii. 19. t. 126-Pfittaca braflienfis. Brif. orn. iv. 337. n. 61.-Perruche couronnée d'or. Buff. oif. vi. 271.-Golden-crowned Parrakeet. Edw. glean. t. 235 . Lath. fyn. i. 25 I. n. 54 .

Inhabits Brafll.-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.

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 ftreaked with very narrow pale brown lines; the tail is longer than the body.

Is green, with a red front; having a red fot on each fide behind the eyes, and on each fide of the rump.

Pf. pacificus. Lath. ind. orn. i. ro4. 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.
B. Zealand Pacific Parrot.-58. $\beta$. Pf. pacificus Seelandicus.

The forehead is fcarlet, and the wing quills are blue. Lath. ind. orn. i. 104. n. 65. $\beta$. Syn. i.253. n. 56. A.

Inhabits New-zealand. - In this variety the rump has no red fpots.

The frontlet, temples, and rump, are red. Lath. ind. orn. i. ro4. n. 6 . $\gamma$. Syn. i. 253 . n. 56.. в.

Inhabits with the former.

## 8. Caledonian Pacific Parrot.-58. 8. P. pacificus caledonicus.

The forehead is red, and the crown yellow. Lath ind. orn. i. 104. n. 65. 8. Syn. i. 254 . n. $5^{6}$. c.

Inhabits New-Calcdonia:

## ع. Carlfonian Pacific Parrot.-Pf. pacificus CarlSonianus.

The hind head, a fpot on each fide below the eyes, and the fides of the belly, are fcarlet. Lath. ind. orn. i. io4. n. 65 . .

Pfittacus Novae-zealandiae. Muf. carlf. ii. t. 23.
Inhabits New-zealand.-The fides of the belly are fpotted with fcarlct ; the under furfaces of tae wings and tail are brown.

## C. Phillipine Pacific Parrot. - Pf. pacificus Pbillipinus.

The crown is blue; the hind head is fpotted with yellowifh green; the fhoulders are edged with yellow.

Pf. auftralis. 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, interfperfed at the back part with a fcw finall yellowifh green feathers; the fhoulders, or upper and fore parts of the wings, are ycllowifh.
68. Palm Parrot. -59. Pjittacus palmarum. 8g.

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 ifland of Tanna in the Pacific Occan.-This fpecies, which frequents the palm trees, is eight inches long, and the tail is rather fhorter than the body; the green colour on the lower parts of the body is paler than on the uppcr, and the belly and extremity of the tail have a yellowifh tinge.

Is green; the crown being blue and ornamented with a creft of longifh feathers; the chin and middle of the belly are red, and the thighs are purple.
Pf. pipilans. Lath. ind. orn. i. Io 5. n. 69.-Blue-crcfted Parrakeet. Lath. fyn. i. 254. n. 58.Pf. porphyrocephalus, or Purple-headed Parrakcet. Nat. mifc. No. i.t. i.

Inhabits the Sandwich Iflands.-The body is about the fizc of a Lark, and, with the tail, meafures 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 reft being yellowifh with green edges and tips; the legs and feet are dufky, with black claws.-This fpecies is fubject to variety; in fome the breaft is brown ; in others the checks, chin, throat, breaft, and belly are tinged with fcarlet, and in thefe the thighs are green. Lath.

## 70. Peregrine Parrot.-P/jattacus 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 iflands of the Pacific Ocean. - Is eight inches long; the bill, legs, and feet are red.
71. Otaheite Parrot.-61. Pf. taitianus. 91.

Is blue; having longifh 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 Taiti. Pl. enl. n. 455. f. 2.-Otaheitean blue Parrakeet. Lath. fyn. i. 255. n. 59.-Pf. porphyrio, or Violet-blue Parrakeet. Nat. mifc. No. iii. t. 7.
Inhabits Otaheite--This finall fipecies is very noify and unfettled, living chiefly on the fruits of the Banana or Mufa trees; it meafures very little more than five inches long, and the tail is rather fhorter than the body : The tongue is fringed at the end, and in fome individuals the whole under parts of the body are white.

## 72. Blue Parrot.-Pfittacus cyanens.

Is entirely of a fplendid full blue colour. Lath. ind. orn. i. 105. n. 70. 阝. Muf. carlf. ii. t. 27. Inhabits Otaheite. - Mr Latham is of opinion that this is only a variety of the preceding fpecies.

## 73. Timid Parrot.-Pfittacus pufillus.

Is olive-brown, with a fcarlet frontlet; the tail quills being fcarlet on their inner webs near the bafe. Lath. ind. orn. i. io6. n. 7 r.

Inhabits New-fouth-wales.-Is about the fize of a Lark, and meafures feven inches long : The bill is blackifh, being circled at its bafe with fcarlet feathers; the under parts of the body are paler than the upper; the tail is of the fame olive brown colour with the body, all the quills, except the two. middle ones, having the half next the rump of their inner webs fcarlet; the legs and feet are blue..

Is green, all the feathers being tipt with yellowifh green; the inner webs of the wing. quills are dufky.

Pf. pygmaeus. Lath. ind. orn. i. 106. n. 72.-Pigmy Parrakeet. Lath. fyn. i. 256. n. 60.
Inhabits the iflands of the Pacific ocean.-Is fix inches long, the tail being rather fhorter than the body: 'The bill is whitifh, with a dufky cere; the legs and feet are leaden coloured.

Is green, having the coverts of the primary wing quills of a bluifh tawny colour; the tail, which is fcarcely elongated, is red underneath; the orbits are afh coloured.
Pf, agilis. Lath. ind. orn. i. 106. n. 73. Borowfl. nat. ii. 92. n. 10.-Pf. cayenenfis. Briff. av.
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. 10 I.

Inhabits South America.-Is ten inches and a half long; the bill, legs, and feet are afh coloured; the irides are chefnut; 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 fpecies are coloured yellow.
76. Red-fhouldered Parrot.-Pfittacus Sanguinolentus.

Is green, with a crimfon frontlet; the crown and outer edge of the wings are deep
blue; the fhoulders and under furfaces of the wings are blood red.
Red-fhouldered 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 dulky, 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 fhort tails, equal at the ends.

77. Crowned Cockatoo.-64. Pfittacus coronatus. 2 I.

Is green ; with a red folding creft which is tipt with blue.
Pf. coronatus. Lath. ind. orn. i. ro6. n. 74.-Guiana Cockatoo. Bancr. guian.160.-Crowned: Cockatoo. Lath. fyn. i. 259. n. 6 g.
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 ventlet are red, with blue tips.

## 78. Black Cockatoo.-65. Pfittacus 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. 3 16.—Black Cockatoo. Lath. fyn. i. 260. n. 66.
Inhabits New-holland; Mr Latham fays Ceylon.-This fpecies equals or exceeds the Ara, $\mathrm{N}^{\circ} .327$. in fize : The bill is dufky brown; the legs and feet are brownifh black.

## 79. Bankfian Cockatoo.-Pfittacus Bankfii.

Is fplendid black, with a fmall creft, the head and wing coverts being dotted with buff; the outer tail quills are fcarlet in the middle, being barred, and tipt with black. Lath. ind. orn. i. 107. n. 76.

Pf. magnificus, or Magnificent Cockâtoo. Nat. mifc. $\mathrm{N}^{\circ}$. xvii. t. 50.-Bankian Cockatoo. Lath. fyn. fup. 63 . t. 109. Parkinf. voy. 144. Cook, voy. ii. 18.

Inhabits New-holland.-Is almof equal in fize to the former: The general colour is black; the fore part of the creft, the chceks, below the eyes, and the fhoulders are fpotted with buff, owing to the feathers being tipt with that colour ; in fome fpecimens the fides and thighs are flightly barred with narrow bufi freaks from the fame caufe; the bill is very large, and of a deep brown colour; the two middle feathers of the tail are black; the outer tail quills are black at both ends, their intermediate fpace is fcarlet with irregular black tranfverfe bars, the inner edge of the fcarlet, near the flafts, becomes yellow; the legs and feet are deep brown. In fome fecimens the fcarlet on the tail forms one large tranfuerfe band in the middle, without any black bars.
B. Yellow-necked Bankfian Cockatoo.-Pf. Bankfii flavicollo.

The fides of the neck, the chin, and throat, are yellow. Lath. ind. orn. i. 107. n. 76. B.
Inhabits with the former, but is greatly finaller, meafuring twenty inches long, perhaps it is a younger bird: The tail is marked exaclly as above defcribed, with fcarlet and black bars; the bill is lead coloured; the feathers of the creft are varied with yellow; the chin and throat are yellow, and the fides of the neck are variegated with yellow and black.

## \%. Brown Bankfian Cockatoo.-Pf. Bankfii fufius.

Is dufky brown, inclining to olive; the tail is croffed, except the two middle quills, with a broad red bar.

Variety of the Bankią Cockatoo. Phillips, bot. bay. t. p. 267.
Inhabits with the former, and meafures twenty-two inches in length: The head, neck, and under parts of the body are dufky brown, inclining to olive, the belly being darkeft; the feathers on the - top of the head, back part of the neck, upper part of the back, and the fhoulders are edged with olive; the zeft of the back, the wings, and rump are gloffy black; the two middle tail quills are black; the ref are black at both ends and vermilion red in the middle for about a third of their lengin, the outer edge of the two outmoft feathers being black; the bill is fhort, of a pale lead colour, and its under mandible is almoft bunied in the feathers of the creft; the legs, feet, and claws are black. This variety may perhaps be a different fex of the one immediately preceding.
80. Yellow-crefted Cockatoo.-66. Fhitacus fulphureus. 94.

Is white, with a folding, pointed, fulphur-yellow creft, and having a fulphur-yellow ffot below the eyes.

Pf. fulphurens. Lath. ind. orn i. 109. n. 8r.-Pf. albus galeriatus. Frifch. av. t. 50.-Cacatua luteo-crifuta. Erifi. av. iv. 206. n. 9.-Kakutoëha orientalis. Seb. muf. i. 94. t. 59. f. 1.-Kakatoes à hupe jame. Buff. off. v1. 3. Pl. enl n. 14.-Crefted Parrot, or Cockatoo. Alb. av. iii. t. 12.-Tefict white Cockatoo. Edw. glean. t. $3^{17}$. Lath. fyn. i. 258. n. 64. Weir's muf.

Inhabits the Molucca ifunds.-Is fourteen inches and a lialf long: The bill ard cere are blackinn;
the irides are red ; the under parts of the body, the creft, and the half neareft the body of the imner webs of the tail quills have a tinge of fulphur yellow.

## S1. Wallefian Cockatto.-P fitacus ǧaleratus.

Is white, with a long, folding, pointed, fulphur-yellow creft, and having the bafe of the tail fulphur-yellow. Lath. ind. orn. i. rog. n. 80.

Inhabits New-fouth-wales.-Is as large in the body as a common Dunghill cock, and meafures two feet three inches long, including the tail: The bill is blackifh; the orbits are covered with feathers; the creft rifes from the fore-head, is feven inches long, being compofed of ten or twelve fulphur yellow feathers, which are fharp at the ends; behind this the crown of the head is bald; the tail, which is eight inches long, is fulphur yellow at the bafe; the legs and feet are blackith. This bird refembles the former in its general appearance, but is more than twice its fize, and can therefore fcarcely be confidered as a mere variety. Lath.
82. Red-vented Cockatoo.-67. Pfittacus philippinarum. 95.

Is white, having a folding fulphur-yellow creft which is tipt with white; the orbits are yellowifh 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. II. t. 22. f. i.-Petit Kakatoës. Buff. oif. vi. 96.-Petit Kakatoës des Philippines. Pl. enl. n. ıgr.-Red-vented Cockatoo. Brown, illuftr. t. 5. Lath. fyn. i. 25 8. n. 63.

Inhabits the Philippine inlands.-Is thirteen inches and a half long: The bill is white, but is for the moft part afh coloured at the bafe, with a grey cere; the orbits are yellowifh red; the feathers of the creft are an inch and a half long, the lower feathers being fometimes pale red; the two middle tail quills are white, the inner webs of the others being fulphur-yellow from the bafe to the middle; the legs, feet, and claws are leaden coloured.

## 83. Molucca Cockatoo.-68. Pfittacus moluccenfis. 96.

Is pale whitifh rofe colour; having a folding creft, which is red underneath.
Pf. rofaceus. Lath. ind. orn. i. 108. n. 78.-Cacatua rubro-criftata. Briff. av. iv. 209. n. io.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 iflands.-This fpecies meafures a little more than feventeen inches long: The bill is bluifh black, with a black cere; the orbits are grey; the irides are red; the general colour is white inclining to pale rofy red; the lateral tail quills have their inner webs, from the bafe to the middle, of a fulphur-yellow colour; the creft is fix inches and a half long; the legs and feet are lead coloured, with black claws.

Pf. criftatus. Lath. ind. orn. i. 108. n. 77.-Pf. albus criftatus. Aldr. orn. I. in. c. 4. Raj. ar. 30. n. 1.-Cacatua. Briff. av. iv. 204. n. 8. t. 21.—Kakatoës à hupe blanche. Buff. oif. vi. 92.Kâkatoës des Moluques. Pl. enl. 11. 263.-White crefted Parrot. Alb. av. iii. t. 12. Will. orn. angl. II2. t. 15 .

Inhabits the Molucca iflands.-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 bafe to the middle; the feathers of the fcrag of the neck are loofe and flowing; the creft is five inches long, and is capable of being erected or laid down at pleafure, in which laft fate it covers the crown of the head, otherwife bald or naked, with a double range of feathers, the upper row lying immediately over the intervals of the lower; this creft is erected either when angry, frightened, pleafed, or otherwife roufed.

Is ath coloured; the rump, wings, ànd tail, being fcarlet.
Pf. erythroleucus. Aldr. orn. i. 675. Raj. av. 31. n. 7. Lath. ind. orn. i. rog. 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. is 4. n. 8. Lath. fyn. i. 260. n. 67.
fis place uncertain.-Is about the fize of a common Hen, and meafures feventeen inches long: This feecies is here named Cockatoo, notwithitanding that its having a creft is omitted both by Dr Gmelin and Mr Latham, but as that particular appellation is given to it both by Mr Briffon and the Count de Buffon, it can farcely be doubted that it is furnifhed with the appendage which chiefly diftinguifhes Cockatoos from Parrots. The bill is black; the under part of the back is red ; the wing quills, and thofe of the tail, with the rump, are fcarlet; the legs and feet are blackifh, with black claws.

## 86. Hoary Parrot.-71. Pfittacus erythacus. 24.

Of a hoary afh colour, with naked white temples, and fcarlet tail.
Pf. erythacus. Mur. ad frid. i. 14. Scop. an. i. 3 I. n. 30. Kram. el. 332. n. 2. Lath. ind. orn. i. Iog. n. $8_{3}$.-Pf. guineenfis cinereus. Briff. av. iv. 3 Io. n. 49.-Pf. cinereus, f. fubcaeruleus. Aldr. orn. i. 675 .t. p. 676 . Raj. av. 3I. n. 8.-Jaco, Perroquet cendré. Buff. oif. vi. ıoo. Pl. enl. n. 3ir.-Afh-coloured Parrot. Will. orn. angl. ir4. n. 7. Alb. av. i.t. 12. Lath. fyn. i. 26i. n. 68.-Grauer Papagay. Frifch, av. t. 5 I.

Has red wings. Lath. ind. orn. i. sio. n. 83. B. Briff. av. iv. 3 I 3 . 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.

Is variegated with red on the body and wings. Briff, av. iv. 3 33. n. 49. B. Lath. ind. orn. i. 1I. 0. n. ${ }^{8} 3 \cdot \%$

Red-and-afh coloured Parrot. Edw. av. iv. t. 163. Lath. fyn. i. 262. n. 68. ©.
The whole body, and the upper furfaces of the wings, in this variety, are variegated with red and afh colour.

Inhabits the weftern coaft of Africa.-Is twenty inches long: This fpecies is remarkably loquacious and noify, modulating its voice with great flexibility, and learns eafily to repeat almoft every thing it hears. The bill is black, with a white cere; the irides are yellowifh white; the legs and feet are àlh coloured, with blackifh claws.

## 87. Anh headed Parrot. - Pfillacus cinercocephalus.

Is red, with an afl coloured head, naked cheeks, and brown afh primary wing quilis. Syft. nat. ed. Gm. i. 332. n. 24. i. Lath. ind. orn. i. ifo. n. 83. ס.
Pf. ruber. Scop. an. i. 32. n. 31. Lath. fyn. i. 262. n. 68. c.
Inlabits with the former.-Though this bird be reckoned a varicty 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 defrigtion of thefe in the Hoary Parrot ; on the breaft there are two brown feathers.
88. Cinerenus Parrot.-72. Pfittacus cincrcus. 97.

Is entirely of a bluifh afh colour.
Pf. cinereus. Lath. ind. orn. i. ino. n. 84.-Pf. brafilienfis cinereus. Briff. av. iv. 3 r3. n. 5 \%.-. Maracana. Will. orn. ang. 112. n. 5. Raj. av. 29. n. 4.-Cinereous Parrot. Lath. fyn. i. aб3. ก. 69 .

Inhabits Guinen.-This fpccies exceeds the Hoary Parrot in fize.

## S9. Southern Parrot.-73. Pfitacus meridionalis. $9^{8 .}$

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. in o. 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 fhafts of the tail quills are naked and flender at the tips; the legs and feet are blackifh.

This defcription, which is taken from Mr Latham, becaufe the fpecies is adopted into the Syftema Naturae from his Synopfis, differs very materially from the one given by Dr Gmelin, which is as follows: The upper parts of the body are greenifh afh; the under parts are bright bay; the orbits, crown of the head, hind head, and fcrag of the neck, are afh coloured, the feathers on thefe parts being tipt with brown; the bill is bluifh black; the legs and feet are black.

## 90. Mafcarine Parrot.-74. Pfitiacus mafíarimus. 49.

Of an afh colour ; the lower edge of the frontlet being black; the orbits are naked and ruddy, and the lateral tail quills whitifh at their bales.

Pf. mafcarinus. Mantifi. 177 I. p. 524. Briff. av. iv. 315. n. 52. Lath. ind. orn. i. i1 1. n. 87.Mafcarin. Buff. oif. vi. 120. t. 5. Pl. enl. n. 35.-Mafcarine Parrot. Lath. fyn. i. 26 5. n. 72.

Inhabits Mafcarin 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 fcrag of the neck are reddifh : Mr Latham fays that the prevailing colour is brown, the face black, the head bluifh, and the tail quills dark afh coloured.

Is entirely of a brown afh colour.
Pf. fufcus. Briff. av. iv. $3^{\text {I4. }}$ n. $5^{\text {I. Lath. ind. orn. i. ifi. n. 88.—Brown Parrot. Lath. fyn. i. }}$ 266. n. 73.

Its habitation is uncertain.-This fpecies meafures thirteen inches and a half long.
92. Ceram Parrot.-76. Pfittacus garrulus. 25.

Is fcarlet, with afh 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. Borowfk. nat. ii. gI. n. 6. Lath. ind. orn. 1.13. n. 96.-Lorius ceramenfis. Briff. av. iv. 215 . n. I3.-Lori de Ceram. Buff. oif. vi. 129. var. 2.-Ganz rother Papagay. Frifch, av. t. 45.-Lory. Raj. av. is i. n. 5.-Purple Parrot. Charlet, cжerc. 75. n. I6.-Scarlet Parrakeeto. Will. orn. ang. I 7 7.-Ceram Lory. Lath. fyn. i. 269.n. 76.

Inhabits the Molucea iflands.-Is a little more than ten inches long: The bill is orange, with an afh coloured cere; the irides are yellow; the legs and fect are brown, with black claws; the wing coverts are variegated with yellow and green ; the primary wing quills are dufky green, having their imer webs fcarlet, and their tips afh coloured ; the two middle tail quills are green at the bafe, and red for the reft of their length with green dots; the next quill-on each fide is red for two-thirds of its length and then green ; the reft are fcarlet at the bafe, and violet farther on, with dulky green dots.

Is fcarlet, with black and green wings, the firit half of the tail being yellow, and the extreme half green. Syft. nat. ed. x. n. 22. Lath. ind. orn. i. $1 \pm 3$. n. 96.8 .
Pf. coccineus orientalis. Raj. av. 31. n. 9.-Lori-Noira varieté. Buf. oif. vi. 129. var. 1.Pappagallo. Zimnan. uov. 92. t. 15. f. 82.-Noira Iory. Lath. fyn. i. 270 n. 7 6. 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 thofe of the former already defribed ; the tail at its bafe refembles the former, but its extreme half is yellow, with a yellowifh green tip.

Is fearlet, the fhoulders being fpotted with yellow, B.inf. ar. iv. 2 Ig. n. 14. t. 23. f. I. Lath. ind. orn. i. na. n. 55. \%

Pf. moluccenfis. Ger. orn. i. 94. t. 106. Borowfk. nat. ii. 91. n. 7.-Lori noira. Buff. oif. vi. 127.-Lori des Moluques. Pl. enl. n. 216 .-Scarlet Lory. Lath. fyn. i. 270. n. 76. в. Edw. av. iv. t. 172 .

Inhabits with the former, and is of the fame fize. - In this variety the wing coverts are firf yellow, then green, and fill lower green with yellow dots; the lower furface of the tail is reddifh yellow; in other refpects it agrees with the firft defcribed variety.

## 8. Spotted Ceram Parrot.-76. \&. Pf.garrulus maculatus.

The wing coverts are marked with a number of blue fpots. Lath. ind. orn. i. 114. n. 96. ©. Syn. 27 I. n. 7 6. c.

Inhabits with the former, and is of the fame fize. -It chiefly differs from the variety firft defcribed in having the wing coverts much fpotted with blue, and by wanting the green bracelets at the knees.
93. Blue-capped Parrot. - 77. Pettacus Domicella. 26.

Is red, with a violet blue cap, and green wings; the fhoulders and knees are blue, and the orbits brown.
Pf. Domicella. Lath. ind. orn. i. I14. n. 97.-Lorius orientalis indicus. Brif. av. iv. 22. n. 15. t. 24. f. I.-Lori à collier. Buff. oif. vi. I 30.-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 iflands.-This fpecies is almoft eleven inches long; is very docile, and learns to fpeak very plainly: The bill is red, with an afh coloured cere; the irides are yellow; the breaft is marked with a yellow femilunar fpot; the legs and feet are blackifh, with black claws.

## B. Collared Blue-capped Parrot.-77. $\beta$. PS. Domicella torquatus.

Is red, with a blue cap, and blue wings; the orbits are afh coloured; the neck is furrounded 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. off. vi. 131.Lori male des indes crientales. Pl. enl. n. 119.-Laurcy from Prafil. Alb. av. iii. t. 13.-Bluecapped Lory. Lath. fyn. i. 27 I. n. 77. A.
Inhabits with the former, and is of the fame fize.-The bill is yellowifh, with an afh coloured cere; the irides are yellow; the neck is furrounded, at its lower end, with a yellow collar; the back, rump, and belly, are mixed white and rofe colour; the tail is purple, its coverts being varied with red and white; the primary wing quills are blue; the fecondaries and coverts are yellowifh green; the legs and feet are blackifh, with black claws. The editor of the Planches Enluminées confiders this variety as the male, and the former as female of the fame f $f_{\text {pecies. }}$
94. Violet-capped Parrot.-78. Pfittacus Lory. 27.

Is purplifh fcarler, with a dark violet-blue cap, and green wings; the breaf, knees, and tail, are blue, and the orbits are flefh coloured.

Pf. Lory. Láth. ind. orn. i. 115. n. 98: Borowfl. nat. ii. 92. n. 9.-Lorius philippenfis. Briff. av. iv. 225 . n. 16. t. 23. f. 2.-Lori tricolor. Buff. oif. vi. 132.-Lori des. Philippines. Pl. enl. n. 168.-Firft black-cap Lory. Edw. av. iv. t. 170.-Black-capped Lory. Lath. fyn. i. 273. n. 7\%.

Inhabits the inland of Ylo, and the other Philippines.-Is almoft eleven inches long: The bill is orange, with an afh 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 blackifh.

Is deep fcarlet or crimfon above, and violet-blue beneath; the leffer and under wing coverts, the inner webs and under furfaces of the wing quills, are blackifh brown.
Pf. puniceus. Lath. ind. orn. i. 115. n. 99.-Lorius amboinenfis. Briff. av. iv. 231. n. 19.Lori cramoifi. Buff. oif. vi. ェı3.-Lori d'Amboina. Pl. enl. n. 5 18.-Blue-breafted Parrot. Brown, illuftr. t. 6.-Crimfon Lory. Lath. fyn. i. 273. n. 79.

Is red, having black wing quills and orbits; the under tail coverts being blue, the wings marked with a blue fpot, and the tail tipt with chefnut.
Pf. ruber. Lath. ind. orn. i. irg. n. roo.-Lori rouge. Buff. oif. vi. I 34 .-Lori de la Chine. Pl. enl. n. 5 19.-Lori de Gilolo. Sonser. voy. 177. t..112.-Molucca, Lory. Lath. fyn. i. 274. n. 80.

Inhabits the Molucca illands and New-guinea.-Is from nine to ten inches long: The bill and irices are yellow. In the individual defribed by Sonnerat the tail is equal and tipt with chefnut.colour, as mentioned above; but in the individual delineated in the Pl. enl. n. 5 19. the tail is wedgelike and of an uniform colour, giving this fpecies a confiderable refemblance to the Gueby Parrot, No. $35^{\text {s. }}$ Latb.

## B. Molucca Red 「arrot.-So. B. Pf. ruber moluccenfis.

Is red; the fhoulders, belly, ventlet, tips of the fecondary wing quills, and tips of the larger wing coverts, being blue.
Pf. moluccenfis. Lath. ind. orn. i. ir6. n. ror.-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 diftinct from it to conftiute a feparate fpecies: It meafures nine inches in length ; the bill is red, with a bluifh cere; the orbits are bluifh ; the tail is durky red, its quills having dufly edges.
97. Crand Parrot.-S.1. Sfiltacas grandis, 10,2 .

Is red, the under parts being variegated with red, blue, violet, and green; the nàpe is riolet; the wings are blue; and the tail is yellow at the tip.
Pf. grandis. Lath, ind. orn, i. 115. n. ro2.-Grand Lori:. Duff. oif. vi. 135.-Lori de ha nouvelie Guinée. Fl. enl. n. 683 .-Purpur-roo íc L.orri. Voofm. monogr. 1769. p. ıo. t. 7.-Grand Lory. Lath. fyn. i. 275 n. n . Ir.
'Inhabits New-guinea.-Is thirteen inches long: The bill is black; the back and wing coverts are brownifh red; the head and neck are fcarlet, the back part of the latter from the nape to the origin of the back being blue.
B. Blue -bellied Grand Parroi.-8r. $\beta$. Pf. grandis porpbyrogafter.

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. orr. i. 116 . n. rot. $\beta$.
Grand Lory. Lath. fyn. i. 276 . n. 81. A.
Inhabits with the former, and is of the fame fire. -The thighs and tail are chefnut coloured.
98. Cochinchina Pariot.-Pfitiacus cochinchinenfis.

Is blue; the front, nape, lower part of the neck, breaft, and middle of the belly, being fcarlet. Lath. ind. porn. i. it. n. 103. Syn. fug. 65. n. 1.43.
Inhabits Cochinchina. - The fire of this fpecies is not mentioned: The bill is yellow; the wing coverts, the wing quills, and the tail, are all marked with a black crops bar; the legs and feet are black.
99. Guinea Parrot.-82. Ffiliacis guineenfor. 103.

The head and neck are fcarlet; the eyebrows and breaft are yellowifh; the wings are greenifh yellow, with blue tips; the belly, rump, and under furface of the tail, are hoary.

Pf. guineenfis. Lath. ind. orn. i. II 6. n. 104. Miller, illuftr. t. 29.-Yellow-breafted Lory. 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 tips with fcarlet ; the claws are black.

Is fcarlet; the head, frag, ventlet, tail, fhoulders, and wings, being black.
Pf. paraguanus. Lath. ind. orn. i. 117 . n. 105.-Lorius brafilenfis. Briff. av. iv. 229. n. 17.Paragua. Raj. av. 33. n. 4. Will. orn. ang. 115. n. 9. Buff. of. vi. 248.-Paraguan Lory. Lath. fyn. i. 277. n. 83 .
Inhabits Brafil ?-The bill is aft coloured, and the irides are red.

Is biuifh black, with whiting bill and orbits.
Pf. niger. Lath. ind. own. i. in. n. 86. Klein, av. 25. n. 23. Ger. orn. ii. 20. t. 128.-Pf. madagafcarienfis niger. Brill. av. iv. 317 . n. 53.-Vafa, Perroquet nair. Buff. of. vi. 119. t. 4.Perroquet nor de Madagascar. Fl. enl. n. 500.-Black Madagafar Parrot. Flu. av. i. t. 5.Black Parrot. Lath. fyn. i. 264. n. 7 r.

Inhabits Madagafcar.-Is thirteen inches and a half long: The bill is ruddy; the irides are brown; the tail is confiderably elongated, but is equal at the cnd; the legs and feet are flefh coloured, with black claws.

## 102. Blue-headed Parrot. -8 . Pfittacus caeruleocephalus. 28.

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. in 7. n. ıоб.-Pf. gujanenfis caeruleus. Briff. av. iv. 304. 11. 46.-Pf. verficolor, f. erythrocanus. Aldr. orn. i. 675. Raj. av. 3I. n. 6.-Crik rouge-et-bleu. Buff. of. vi. 226.-Red-and-blue Parrot. Will. orn. angl. 114. n. 6. Lath. fyn. 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 fect are grey.

## 103. Variegated Parrot.-86. Pfittacus varius. 105.

Is variegated with brown and blue; the cheeks, chin, and throat, being whitifh; the
wing and tail quills are dufky brown, with blue outer webs.
Pf. varius. Lath. ind. orn. i. i12. n. go. Maerter, phyf. arb. i. 2. p. 48.
Inhabits South America.-This feecies farcely exceeds five inches in length: The bill, legs, and feet, are yellowifh, with black claws.

## 104. Violet Parrot.-87. Pfittacus 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 reft mixed yellow, green, and red; the coverts having a rofe coloured fpot.
Pf. violaceus. Lath. ind. orn. i. i12. n. 91.-Pf. aquarum lupiarum. Briff. av. iv. 302. n. 44Crik à tete violette. Buff. oir. vi. 233.-Perroquet de Guadeloupe. Du Tertre, antill. ii. 250. fr 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 flefh coloured; when irritated, the feathers round the neck are erected like a ruff or collar; the rofy fpot on the wing coverts is double, or is rather two contiguous fpots. The defcription of this fpecies by Mr Latham is fomewhat different, as follows: The upper parts of the body are green, and the under parts bluifh; the head and neck are violet-blue, varied with green and black.

## 105. Finch Parrot.-88. Pfittacus fringillaceus. 107.

Is green, with a blue head; the cheeks, chin, throat, and a fpot on the belly, beirg white, fmeared bloody; the belly is violet-blue.
Pf. fringillaceus. Inth. ind. orn. i. i12. n. 22. Maerter, plyf. 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, meafures fix inches in length: The bill, legs, and feet, are pale yellow, with brownifh claws; the inner webs and tips of the tail quills are pale gellow.

BIRDS.
105. Molinas Parrot.-89. Pfittacus choracels. 108.

Is green above, and afh coloured beneath, with flefh coloured orbits. Mokn, hifr. wet. chil. 228. Lath, ind. orn. i. 112. n. 93.

Inhabits Chili.-This fpecies agrees in manners and food with the Jaguilma, No. 335 already defribed.

Is green; the fides under the wings, the under wing coverts, fome of the larger wing coverts, and the margin of the wings, being red; the under: furface of the tail is brown.
Pf. fineafis. Briff. av. iv. 291. n. 39. Lath. ind. orn. i. i17. n. 107.--Perroquet vert. Buff. oif. vi. iŕ.-Grand Perroquet vert. Sonner. roy. 174. t. io8.-Perroquet de la Chine. Pl. enl. n. 514.-Green-and-red Chinefe Parrot. Edw. glean. t. 23 r. Lath. fyn. 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 yellowinh tip, and black underneath, with no cere; the orbits are clothed with plumage; the irides are orange ; the legs, feet, and claws, are black.

Is green above, and greenifh 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. 7 13.-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 bluifh green; the fore part of the breaft is greenifh yellow; the tail is yellowifh at the tip; the legs and feet are black.

## 109. Grilled Parrot.-Pfitacus nafutus.

Is green; the head and breaft being greenifh grey, and the wing coverts yellow. Lath. ind. orn. i. 118. n. rog. Syn. fup. 64. n. 141.

Grand Perruche de la Chine. Sonner. voy. ii. 212.
Inhabits China.-Is about twelve inches long: The bill is red, and almolt equals the head in fize; the irides are bluilf.

1:0. Grafly Parrot.-92. Pfittacus gramineus. III.
Is grafs-green above, and olive-green underneath; having the front and crown blue, and the under furface of the tail dufky yellow.

Pf. gramineus. Lath. ind. orn. i. Ir8. n. Ilo.-Grande Perruche à tete blue. Buff. oif. vi 122.-Perroquet d'Amboine. Pl. enl. n. 862.-Amboina Parrot. Lath. fyn. i. 279. n. 8\%.

Inhabits

Inbabits Amboina.-Is fixteen inches long: The bill is pale red; the face on each fide is marked with a black line from the nofuils to the eyes; the legs and feet are lead coloured.

Is gzeen; with blue crown, cheeks, and wing quills; having a white front, white orbits, and red chin.
Pf. leucocephalus. Lath. ind. orn. i. II8. n. III.-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 bafe and yellowifh at the tips, the two outermof have blue outer webs, and the fixth on each fide is entirels green; the hinder part of the belly is generally rufty.

475 B. Purple-bellied White-headed Parrot-03. B. Pf. leucocephalus purpuratus. Is green, with a white front ; the throat is redifif, its feathers being edged with white; the belly is purple; the outer webs of the wing quills are blue. Lath. ind. orn. i. in 8 . n. III. $\beta$.

Pf. leucoccphalus. Aldr. orr. i. 67o. Raj. av. 3 I. n. 5. and i8t. 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. I.I3. n. 5. Lath. fyn. S. 280. ก. 88. А.
Inhabits Martinico, Jamaica, and New-fpain.-Refembles the former in fize and general colours, except as above noticed in the character, and that the liind head is green.
475. $\gamma$. Green-chinned White-headed Parrot.-93. $\gamma$. 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. I19. n. it 3. Muf. carif. iii. t. 52.-White-crowned Parrot. Latì. fyn. i. 28i. n. 88.e.

Inhe bits 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 bafes of the quills being tinged viith blood-red; the legs and feet are afh coloured.
$477^{\circ}$ 8. Afhy White-headed Parrot.-03. \&. Pf. leacocephalus cinerefcens.
Is green, with a white front and bluifh an coloured crown; the belly being footed with red. Lath. ind. orn. i. 119. n. 1 ir. \%
Pf. martinicanus cyanocephahus. Eriff. av. iv. 25 1. n. 29.-Pagagai à ventre pourpre. Buff. cif. vi. 242. Pl. cnl. n. 54 8.-A.fl-crownel Parect. Lath. fyn. i. 28 1. n. 88. c.

## BIRDS.

PIES.
Inhabits with the former, and is of the fame fize: The plumage in this variety, like the laf, is tipt with black, and the chin or throat is green.

## 112. Gerins Parrot.-Pfittacus Gerini.

Is green, with a white head; the fhoulders, fome of the middle wing quills, and the inner webs of the tail quills, at the bafe, are red. Lath. ind. orn. i. ing. n. II2. Ger. orn. i. 95. t. Iog.

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 almoft entirely white; the whole body is green; the leffer wing coverts, fome of the wing quills in the middle of the wing, and all the tail quills on their inner webs near the bafe are red.

## 113. Yellow-headed Parrot.—94. Pfittacus 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 bafe.
Pf. amazonicus. Lath. ind. orn. i. i19. n. II4.-Pf. amazonicus brafilienfis. Briff. av. iv. 272. n. 35. t. 26. f. i.-Amazone à tete jaune. Buff. oif. vi. 208.-Yellow-headed Amazons Parrot. Lath. fyn. i. 282. n. 89.

Inhabits South America, and the Weft India iflands.-Is near eighteen inches long; the bill is afh coloured, with a red bafe; the irides are yellow ; the legs and feet are leaden coloured, with black claws.
B. Cayenne yellow headed Parrot.-94. B. Pf. ocbreocephalus cayenenfis.

Has only a yellow fpot on the crown. Lath. ind. orn. i. 120. n. i14. $\beta$.
Amazone à tete jaune. Buff. oif. vi. 209..var. I.-Perroquet vert-et-rouge de Cayenne. Pi. enl. 11. 3 12.-Yellow-crowned Parrot. Lath. fyn. i. 282. n. 89. A.

Inhabits with the former, and is of the fame fize: The bill is reddifh, but in all other circumftances it agrees with the former variety, except that in this the crown is only marked with a yellow fpot, while in the former the whole crown is yellow.
2. Greater yellow-crowned Parrot.-94. \%. PS. ochreocepbalus major.

The upper mandible of the bill is bluifh green, with yellow fides and white tip; the. under mandible being lead coloured, and yellow in the middle. Lath. ind. orn. i. i20. n. $114 . \%$.

Pf. poikilorhynchos. Raj. av. 30. n. 3. Brif. av. iv. 270. n. 34.-Amazone à tete jaune. Buff: oif. vi. 210. var. 2.-Party-billed Parrot. Will. orn. angl. II3. Lath. fyn. i. 283. n. 89. в.

Inhabits with the two former, which it refembles in every refpect, efpecially the firf, except in being confiderably larger, and in the variegation of the bill.
VoL. I.

## 114. Barbadces Parrot.-05. ISittacus barbadenfis. II3.

Is green, wih afh coloured front and orbits; the crown, cheeks, chin, throat, leffer wing coverts, and thighs, being yellow; the greater coverts are blue; moft of the primary wing quills have blue outer webs; the reft are red from the bafe to the middle, and blue from thence to the end.
Pf. barbadeifis. Briff. av. iv. 236. n. 22. Lath. ind. orn. i. 120. n. 115 .-Green-and-yellow Par. badoes Parrot. Albin, av. iii. t. 2.-Afh-fronted Parrot. Lath. fyn. i. 284. n. 90.

Inlabits Barbadoes.-Is about the fize of a pigeon: The bill is liorn coloured; the legs and feet are afh coloured, with black claws.

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. 4r. t. 22. f. 2. Lath. ind. orn. i. 120. n. 116.-Manilla green Parrot. Lath. fyn. i. 295. n. 98.

Inhabits the Plilippine iflands.-Is about the fize of a pigeon, meafuring twelve inches and a half long: The bill is fcarlet, with a white tip and reddifh cere; the legs and feet are afh coloured, with blackifh claws.

Is green, flightly fpotted with yellow ; having a blue front, blood-red fhoulders, and flefh coloured orbits.
Pf. aeftivus. Lath. ind. orn. i. 121. n. 117.-Pf. amazonicus. Briff. av. iv. 256. n. 31. Klein, av. 25. n. 1o. Frifch, av. t. 47.-Ajuru-curau. Marcgr. braf. 205. Raj. av. 32. n. 1.-Aouroucouraou. Buff. oif. vi. 215 .-Perroquet Amazone. Pl. enl. n. 547 --Middle-fized Parrot. Will. orn. angl. 11 5.-Common Amazons Parrot. Lath, fyn. i. 284. n. 9 r.

Inhabits Amazonia, Guiana, and Brafil.-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 firft, fecond, and third, on each fide, are red on their inner webs near the bafe, the outer web of the firft being blue; the fhoulders are either tawny or blood-red; the primary wing quills are black, nith bluifh tips, the outer webs being green, and the inner webs black; the firf four or five of the fecondaries have their outer webs red near the bafe; the bill is black at the tip. This dcfeription applies to the following varieties, except as is otherwife expreffed to each, as far as $\varepsilon$ inclufively ; the varieties after that are more particularly defcribed.
B. Jamaica Ajuru Parrot.-97. B. Pf. aefivus jamuiicenfis.

The head and breaft are yellow; the front and chin are bluifh; the edges of the wings and the ventiet are red. Lath. ind. orn. i. 121. n. 117. $\beta$.
Pf. jamaicenfis icterocephalos. Briff. av. iv. 233. n. 20.-Pf. viridis melanorhynchos. Aldr. orn.

1. ii. c. 7. Raj. av. 30. n. 4.-Aourou-couraou. Buff. oif. vi. 216. var. I.-Black-billed green Parrot. Will. orn. angl. i 13 . n. 4.-Jamaica Parrot. Brown, jam. 473. Lath. fyn. i. 285. n. 91. A.

Inhabits Jamaica.

The leffer wing coverts are red. Lath. ind. orn. i. in i. n. i1 $7 . \%$
Pf. amazonicus jamaicenfis. Briff. av. iv. 276. n. 36. Ger. orn. i. 95. t. ı08. Borowfl. 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, janı. 297. Will. orn. angl. if3. n. 2. Lath. fyn. i. 285. n. 9 I. 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 bafe of four tail quills on each fide.

## 8. Brafilian Ajuru Parrot.-97. \&. Pf. aefivus brafilienfis.

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. if7. \%.
Pf. brafilienfis cyanocephalos. Briff. av. iv. 234. n. 21.-Ajuru-curuca. Raj. av. 33. n. 3. Will. orn. angl. II5. 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.

## є. Varied Ajuru Parror.-97. E. PS. aefivus varius.

The crown, cheeks, and chin, are yellow, and the front blue. Lath. ind. orn. i. 122. n. 117. \&.

Pf. amazonicus varius. Briff. av. iv. 28 I. n. 37. t. 26. f. 2. Ger. orn. i. 96.t. 1 15.-Ajuru-curau fecundus. Marcgr. braf. 205. Raj. av. 33. n. 2.-Aourou-couraou. Buff. oif. vi. 219. var. 4.-Weft-india green Parrot. Edw. av. iv. t. 162. Lath. fyn. i. 28 7. n. 9 I. D.

The crown is varied with blue ; the fcrag and upper part of the back are variegated with yellow; the bill is afl coloured.

## ऍ. Amazonian Ajuru Parrot.-PS. aefivus amazonicus.

Is pale green, with a pale yellow front, and tawny temples. Lath. ind. orn. i. 123 . n. ${ }_{11}{ }^{17}$. $\%$.
Pf. amazonicus. Syft. nat. ed. Gm. i. 341. n. 33.-Pf. amazonicus fronte-lutea. Briff. àv. iv. 26I. n. 32.-Aourou-couraou. Buff. oif. vi. 22 I. var. 5.-Brafilian yellow-fronted Parrot. Lath. fyn. i. 287. n. 91. e.

Inhabits Brafil and Amazonia.-This variety is almoft double the fize of all the former varieties. of this fpecies: The cap, cheeks, and chin are yellow, the feathers on the chin having bluifh 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.

Is green, with a blue forehead; the crown, cheeks, chin, and middle of the belly, being yellow. Lath. ind. orn. i. 122. n. 117 \% \%.

Inhabits Brafl.-This variety is nearly as large as the former, and meafures fourteen inches and a half long: The bill and cere are blackifh; the armpits, or fpace under the wings, are red; the wing quills are marked with a red fpot, and the lateral tail quills are red at the bafe; the belly is yellowifh brown; the legs and feet are brown.
6. Counterfeit Ajuru Parrot.-PS. aefivus fimulatus.

Is green, variegated with yeliow; having a blue forehead, and red houlders. Lath. ind. orn. i. 123. n. II7. \%.

Perroquet Amazone varié. Pl. enl. n. 120.-Counterfeit Parrot. Will. orn. angl. ifo ? Lath. fyn. i. 295.

Inhabits Brafl.-The fize of this variety is not mentioned; as in the two former varieties the wing quills are marked with a red fpot, and the lateral tail quills are red at the bafe,

## 1i7. Yellow fhouldered Parrot.-99. Pfittacus luteus. Ii4.

Is green, with a blue crown, and yellow fhoulders; the larger wing coverts being marked with a large orange fpot.

Pf. luteolus. Lath. ind. orn. i. 123. n. I 18.-Yellow-fhouldered 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.

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. i23. n. IIg. Briff. av. iv. 287 . n. 38. Klein, av. 25. n. II. 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 fartheft from the body, are yellow, and thofe 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 middrie of the wing having the inner webs red at the bafe; the four middle tail feathers are yellowifh at the tips; the next three on each fide are red from the bafe to the middle; the outermoft have blue outer webs; the legs and feet are afh coloured.

## if. Mealy Parrot.-10i. Pfittacus pulverulentus. I 16.

Is green, the upper parts of the body being as if powdered over with white.
Pf. pulverulentus. Lath. ind. orn. i. 123. n. I20.-Meunier, Crik poudré. Buff. oif. vi. 225 Meunier de Cayenne. Pl. enl. n. 86ı.—Meally green Parrot. Lath. fyı1. i. 29 I. n. 94 .

Inhabits Cayenne.-This fpecies, which is perhaps the largeft of the American Parrots, is a very difinct fpeaker: The bill is whitifh; the feathers on the face have their edges flightly tinged with brown; the crown of the head is marked with a yellow fpot; the wing quills are blackifh blue, their outer webs being black; the wings are each marked with a large red fot.

Is green, the front, chin, and throat, being blue afh; the orbits afh coloured, and the breaft marked with a large red fpot.
Pf. havanenfis. Lath. ind. orn. i. 124. n. i21.-Pf. amazonicus gutture caeruleo. Brif. av. iv. 266. n. 33. t. 2 2. f. I. Ger. orn. i. 95 . t. i14.-Crik à face bleue. Buff. oif. vi. 227 .-Perroquet de la Havane. Pl. enl. n. 360 .-Blue-fronted Parrot. Lath. fyn. i. 291. n. 95.

Inhabits near the Havanna.-Is twelve inches long: The bill is whitifh, with a black tip and afle coloured cere; the feathers of the upper parts of the body have blackifh tips, and of the under parts bluifh ; the primary wing quills are black, and thofe in the middle have a red fpot; the lateral tail quills are red at the bafe; the legs and feet are grey.

## 121. Paradife Parrot.-103. Pettacus paradifi. 3+.

Is yellow; the chin, belly, and bafe of the tail quills, being red.
Pf. paradifi. Lath. ind. orn. i. 127. n. 132.-Pf. luteus Cubae. Brif. ar. 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. P/ittacus 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. Mantif. I 77 I. p. 524. Lath. ind. orn. i. 127. n. I33--Pf. luteus. Brif. av. iv. 306. n. 47.-Perroquet jaune. Salern. orn. 69. n. 9.t. 7. f. 2. Pl. enl. n. I3.-Amazone jaune. Buff. oif. vi. 2 14. t. 10.-Aurora Parrot. Lath. fyn. i. 30 I. n. 106.

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 bafe to the middle.

## 123. Pafferine Parrot. - 105. P fittacus pafferinus. 47.

Is greenifh-yellow; having a blue fpot on each wing, a blue rump, and the under furfaces of the wings being blue. Muf. ad. frid. i. 14. and ii. 16 .
Pf. pafferinus. Lath. ind. orn. i. I33. n. 156. Borowik. nat. ii. 95. n. 17.-Pfittacula brafilienfis. Brifl. av. iv. 384 . n. 8 1.-Tuiete. Raj. av. 34 . n. 6. Will. orn. angl. 116. ch. 14. n. 6.—Eté, Toui-eté. Buff. oif. vi, 283.-Leaft green-and-blue Parrakeet. Edw. glean. t. 235.-Little blue-and-green Parrakeet. Lath. fyn. i. 3 19. n. 127.-Short-tailed yellowifh-green Parroquet. Bancr. guian. 162.

Inhabits Brafil and Guiana.-Is about the fize of a Common Sparrow, meafuring 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. Pfittacus cyanolyfeos. 118.

Is greenifh-yellow; having a blue collar, and red rump. Molin. hift. 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 thofe of pigeons in fize ; its flefh is reckoned exceedingly good, efpecially when young.

Is brownifh; with a blue chin, greein 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-
${ }^{\prime}$ Papagai brun. Buff. oif. vi. ${ }^{246 \text {.-Dufky Párrot. Edw. av. iv. t. 167. Lath. fyn. i. 304. n. iro. }}$
Inhabits New-fpain.-Is about the fize of a pigeon: The bill is red, with a blackifh cere; the orbits are naked and pale afh coloured; the irides are chefnut ; the temples, hind-head, rump, and upper furface of the tail are greenifh; the under coverts of the tail are red; the legs and feet are lead. coloured, with black claws.

## 125. Red banded Parrot.- ro8. Pfittacus dominicenfis. 119.

Is green, with a red band acrofs 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. 792.-Red-banded Parrot. Latl. fyn. i. 300. n. Io4.

Inhabits Hifpaniola.-Is nine inches and a half long: The fcrag of the neck and the back are marked with fmall femilunar black foots; the bill is a pale flefh colour ; the legs and feet are afh coloured.
127. Crimion-winged Parrot.-109. Pfittacus erytbropterus. 120.

Is green, with blackih orbits; the fore part of the back being black, and the hinder part blue; the wing coverts are crimfon. Lath. ind. orn. i. 126. n. 130. Syn. i. 299. n. זоз. fup. 6 .

Inhabits New-fouth-wales.-Is.from ten to thirteen inches and a half long: The bill is red, with a dufly or dirty cere ; the tail is rather longer in proportion than in the other fpecies of this fubdivifion of the genus; the legs and feet are dirty looking. -The female of this fpecies differs from the male in having a green back, the wing coverts green, the middle feathers of the greater coverts being red. Lath.

## 128. Fehive Parrot.-IIo. Pfittacus fefivus. 35.

Is green, with a purplifh front; the eyebrows and chin being blue, and the back bloodred.
Pf. feftivus. Lath. ind. orn. i. 126. n. 129.-Tavoua. Buff. oif. vi. 240.—Perroquet Tahué. Il. enl. n. 840.-Feftive Parrot. Lath. fyn. i. 298. n. 102.

Inlabits 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 blackifh grey ecre ; the irides are faffron yellow ; the legs and fect are afh coloured, with black claws.

## 129. Robuft Parrot.-III. Pfitacus robuflus. 12 I .

Is green, the head being fomewhat afh coloured ; the wing coverts are dirty black with green edges, and marked with a red fpot; the wing and tail quills are brown.
Pf. robuftus. Lath. ind. orn. i. i1 2. n. 94--Robuft Parrot. Lath. fyn. i. 296. n. 100.
Its place uncertain.-Is about the fize of a pigeon, and meafures twelve inches long: The bill is large and of a white colour ; the upper edge of the frontlet is blackifh; the feathers on the crown of the head have each a dufky ftreak in the middle; the legs and feet are dufky.
130. New-Guinea Parrot.-II2. Pfittacus magnus. 122.

Is grafs-green ; having the primary wing quills blue, and the under furfaces of the fea condaries red.

Pf. viridis. Lath. ind. orn. i. 125. n. 125.-Grand Perroquet vert. Sonner. voy. 74. t. 1o8.-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. Eaftern Parrot.-Pfittacus orientalis.

Is green; the outer margin of the wings, and the primary wing quilis, are bluifh; the tail is tipt with jellow. Lath. ind. orn. i. 125. n. 126. Syn. fup. 64. n. 140.

Inhabits India.-Is about the fize of the laft: The bill is red, with a yellow tip; the legs and feet are yellow.

## 135. Brafilian Parrot.-I 4 . Pfittacus brafilienfis. 3 б.

Is yellowifh green; with a red face, blue temples, and afh coloured orbits. Lath. ind. orn. i. 125. n. 122. $\delta$.

Pf. brafilienfis fronte rubra. Briff. av. iv. 254. n. 30.-Crik à tete blue. Buff. oif. vi. 232. var. 3.-Brafilian green Parrot. Edw. av. iv. t. 161. Bancr. guian. 160. Lath. fyn. 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 reft of the tail quills and the primary wing quills have blue outer webs. Dr Gmelin fuppofes this might be confidcred as a varicty of the next feecies, and Mr Latham has placed it'as fuch.

Is green; with a fcarlet front, and having a fcarlet 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.

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orn. ii. 22. t. 135.-Crik à tete bleue. Buff. oif. vi. 232. var. 2.-Leffer green Parrot. Edw. av. iv. t. 164. Bancr. guian. 160.-Autumnal Parrot. Lath. fyn. i. 293. n. 96. e.

Inhabits Guiana.-Is about the fize of a pigeon: The bill and cere are whitifh; the orbits are blue, with a tawny fpot below each eye; the irides are golden yellow; the greater wing coverts are blue, the feathers being red at the bafe; the wing quills neareft the body are green; the tail quills are green on their upper furfaces, and yellowifh at the tips, the outermoft on each fide having its outer web blue; on their under furfaces they are yellow, with reddifh bafes, and a green fpot on the middle.
$513 \beta$. Blue headed Autumnal Parrot.-115. B. Pf. autumnalis cyanocephalus. The front and chin are blue; the throat and breatt are red; the wing quills are blue, thofe in the middle having red bafes. Lath. ind. orn. i. 124. n. 122. $\beta_{0}$

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. $15^{8}$.

Inhabits with the former, and is of the fame fize. The head is variegated with red and whitifh. Lath. ind. orn. i. 124. n. 122. $\%$.

Cocho. Fernand. nov. hifp. 38.-Crik à tete bleue. Buff. oif. vi. 23 1. var. 1.-Red-and-whitefaced Parrot. Lath. fyn. 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 firft variety of the Autumnal Parrot, except in fuch circumftances as are particularly noticed.

Is green, the crown and front being fcarlet; the rump is greenifh 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 Thrufh : 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.

Is green, with a grey head; the neck and breaft being varied with bluifh, and the wing and tail quills having blue tips.

Pf. accipitrinus. Lath. ind. orn. i. 111. n. 89. Ger. orn. i. 96. t. t20. Borowfl. nat. ii. 93. n, ${ }^{1} 3$.-Pf. varius indicus. Briff. av. iv. 300. n. 43.-Pf. elegans. Cluf. exot. 365 . Raj. av. 32. n. 11.-Perroquet varié. Buff. oif. vi. 117 .-Hawk-headed Parrot. Edw. av. iv. t. 165. Lath. fyn. i. 266. n. 74 .

Inhabits India.-Is about the fize of a pigeon, and meafures twelve inches and a half long: The bill, cere, and naked orbits are blackifh; the irides, are yellowifh brown, or walnut coloured; the legs and feet are lead coloured.

## ß. Mailed Hawk-headed Parrot.-116. B. Pf. accipitrinus loricatus.

The feathers on the head are long, narrow, and white, with black ftreaks. Lath. ind. orn. i. II2. n. 89. $\beta$.

Papagai maillé. Juff. oif. vi. 239. t. 12.-Perroquet maillé. Pl. enl. n. 526.—Mailed Parrot, Lath. fyn. i. 267 . n. 74. A.

Inhabits Guiana in a domefticated fate, being defcended from the former ; from which it chiefly differs by the long narrow white feathers on the crown and face, which are all ftreaked with black down the middle; thefe it erects into a kind of creft when irritated.

## 139. Menftrual Parrot.-117. Pfitiacus menfruus. 39.

Is green, with a bluifh head, and red ventlet. Scop. an. i. 33.
Pf. menftruus. Lath. ind. orn. i. 1I3. n. 95.-Pf. gujanenfis cyanocephalus. Driff. av. iv. 247. n. 28.-Papagai à tete-et-gorge bleue. Buff. oif. vi. 243.-Perroquet à tete bleue de Cayenne. Plo enl. n. 384.-Blue-headed Parrot. Edw. glean. t. 314. Lath. fyn. i. 301. n. 1o7.

Inhabits Guiana.-This fpecies, 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 bluifh, the feathers being brown, with blue tips; the back and wings are green, the wing coverts being yellowifh green, and the wing quills green with brown: inner edges; the belly is green; the feathers having bluifh tips; the tail quills are green, with blue tips, the three outermoft on each fide having blue outer webs, and the inner webs being blood-red from the bafe to the middle; the ventlet is red, its feathers having yellowifh blue tips; the bill is horn coloured, the fides of the upper mandible being tawny ; the orbits are bluifh hoary, and the eyes are black.

## 140. Purple-bellied Parrot.-118. Pfittacus purpureus. 124.

Is blackih-brown above, and purple underneath; the crown and cheeks being black, the orbits blue, and the neck furrounded by a rufty collar, fpotted with dufky.

Pf. purpureus. Lath. ind. orn. i.. 129. n. 140.-Perroquet violet. Barrere, fr. equ. 144.-Papagai violet. Buff. oir. vi. 244.-Perroquet varié de Cayenne. Pl. enl. n. 408.-Little durky Parrot. Edw. glean. t. 315 . Lath. fyn. i. 302. n. 108.

Jnhabits Surinam.-This fpecies, which is not very tractable, is about the fize of an ordinary pi-. geon: The bill is dulky, with an orange coloured fpot on each fide; 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 durky or dirty-like.
141. Black-headed Parrot.-119. Pfittacus melanocephalus. 41.

Is green above, and yellow beneath; having a black head, white breaft, and carnation orbits. Muf. ad. frid. ii. 15 .

Pf. melanocephalus. Lath. ind. orn. i. 128. n. I 36.-Pf. mexicanus pectore albo. Briff. av. iv. 297. n. 42.-Pf. atricapillus. J. F. Miller, illuftr. t. 4. A.-Maïpouri. Buff. oif. vi. 250. Pl. enl. n. 527.-White-breafted Parrot. Edw. av. iv. t. 169. Lath. fyn. i. 305 . n. 112.

Inhabits New-fpain, Guiana, and the Caraccas.-This fpecies lives in the woods, flying in finall fiocks, with a whiftling 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 fpecies of the genus; it is very untractable, and can fcarcely be tamed unlefs when caught very young: The bill and cere are carnation coloured; the cheeks are yellow ; the fcrag is orange ; the outer webs of the primary wing quills are blue, their inner webs and under furfaces being black; the firft two or three of the fecondaries are green edged with yellow, and the reft entirely green; the tail is rounded; the legs and feet are brown afh, with blackifh claws.
142. Hooded Parrot.-1 20. Pfittacus pileatus. 125.

Is green, with a black head and white orbits; having a blue fpot on each fhoulder, and the tail being tipt with blue.
Pf. Cä̈ca. Lath. ind. orn. i. 128. n. 137.-Cäica. 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 fpecies refembles the former in the thicknefs of its body; it is migratory, and meafures eight inches and a half long: The bill, legs, and feet are red; the chin is yellowifh; the two middle quill feathers of the tail are entirely green, and the reft are tipt with blue.

## 143. Louifiana Parrot.-121. Pfittacus ludovicianus. 126.

Is fea-green; with a tawny yellow head, growing reddih near the bafe of the bill. Lath. ind. orn. i. 93. n. 33. $\beta$.
Pf. viridis capite luteo. Frifch, av. t. 52. Ger. orn. ii. 17. t. i12.-Papagai à tete aurore. Buff, oif. vi. ${ }^{247}$. Du Pratz, voy. ii. 128.-Orange-headed Parrot. Lath. fyn. i. 304. n. 1 II 1 .
Inhabits Louifiana.-This fpecies is very wild and exceedingly difficult to tame; it flies about in large flocks, making a great noife, and feeds moftly on the feeds of Bromelia and Liriodendron : It is thirteen inches long; the bill is yellowifh white, and the legs and feet are white. Mr Latham places this as a variety of the Carolina Parrot, $\mathrm{N}^{\circ}$. 370 a among the fpecies which have long wedge-like tails, quoting the $499^{\text {th }}$ plate of the Planches enluminées, which Dr Gmelin refers to the Carolina fpecies.

## 144. Red-throated Parrot.-122. Pfittacus collarius, 42.

Is green ; with red chin and throat. Lath. ind. orn. i. 128. n. 139.
Pf. jamaicenfis gutture rubro. Briff. av. iv. 24 I. n. 25 .-Pf. minor collo miniaceo. Raj. av. i 8 r: 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 outcr edges.

Is green above, and yellow beneath; having an afh 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 meafures eight inches and a half long, is very numerous about the fandy fhores of the river Senegal ; it flies about in little companies of five or fix together, making a fharp liarfh noife, and roofs on the higheft tops of the trees: The bill is afh coloured, with a blackifh cere ; the irides are yellow; the wing quills and feathers of the baftard wing are alh coloured, having green edges and green tips; the legs and feet are reddifh afh.

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 Larls: The bill is carnation red; the tail is very fhort $;$ the legs, feet, and claws are grey.

## 147. Golden-winged Parror.-125. Pfittacus chryfopterus. 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. $\mathrm{t}_{\mathrm{s}}$ 293. f. 2. Lath. fyn. i. 309.n. 116.

Inhabits India, -Is very little larger than a Lark: The bill is white; the firft. four primary wing quills have blue outer webs, and their inner webs are brown, all the reft are orange on their upper furfaces and yellow underneath.

## 148. Ethiopian Parrot.-r26. Pfittacus pullarius. 45.

Is green; with red chin and front, alh coloured orbits, blue rump, and tawny tail, having a black tranfverfe band.
Pf. pullarius. Muf. ad. frid. ii. 15: Scop. an.i. 33. n. 34. Lath. ind. orn. i..129. n..143. Borowfk. nat. ii. 95.n. 18.-Pf. mininus. Cluf. exot. 365.-Pf. pufillus aethiopicus. Raj. av. 31. n. 1o.Pf. minor verficolor. Seb. muf. ii. 40. t. 40. f. r.-Pfittacula guineenfis. Brif. av. iv. 387. n. 85. Ger. orn. ii. 21. t. r 33--Perruche à tete rouge de Guinée, Moineau de Guinée. Buff. oif. vi. 165. t. 7.-Petite Perrucke 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. 1 17.-Indianifche Spatz. Wirfing. vog. t. 12.-Kleinfter gruner Papagay. Frifch, av. t. 54 .

Inhabits Guinea, Ethiopia, India, and Java.-Is about the fize of a Lark, and meafures five inchesand a half long; this fmall fpecies is very imitative of the manners of other birds, but by no means equally dextrous in learning to fpeak; it is exceedingly fond of its own fpecics: The bill is rcd, with an afh coloured cere; the irides are bluifh; the two middle tail quills are entirely green, and the reft have green tips; the legs, feet, and claws are grey. In the female the front is of a lefs vivid rect colour, and the wings are edged with yellow.
green; the front, a femilunar fpot on the nape, the under part of the throat, and the breaft, being fcarlet. Lath. ind. orn. i. I30. 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.
Inhabits Malacca.-Is about the fize of the former: The bill is of a greyifh violet colour ; the irides are red; the legs and feet are brown.
Is green; with blue front and rump, the under wing coverts being red. Lath. ind. orn. i, ${ }^{1} 30$. n. 144.

Petite Perruche de Malacca. Sonner. voy. ii. 212.-Blue-rumped Parrakeet. Lath. fyn. fup. 66.

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 bluifh 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.-Smalleft red-and-green Indian Parrot. Edw. av. i. t. 6.-Red-and-green Indian Parrot. Lath. fyn. i. 3 Ir. n. 118.

Inhabits India.-Is about the fize of the former, meafuring five inches long : The bill is orange or yellowifh red; the upper tail coverts are red; the legs, feet, and claws, are carnation red.

## 152. Vernal Parrot.-P.Pittacus vernalis.

Is bright green; the wings being paler; the throat, rump, and tail, are blood-red. Muf. carlf. ii. 29. Lath. ind. orn..i. 130. n. $147^{\circ}$

Its place is not mentioned.-Is about thie fize of the former, meafuring five inches and a half in: length: The bill is pale reddifh; the wing coverts are very full green, and the wing quills of a light or bluifh green colour ; the under furface of the tail is blue; the legs and feet are pale; the under parts of the body are pale green.

Is g̣reen, with a faphire-blue crown; the rump and breaft being fcarlet.
Pf. galgulus. Amoen. acc. iv. ${ }_{2}$ 36. Muf. ad. frid. ii. ı6. Obec. voy. ioi. Lath. ind. orn. i. 13 I. n. 148.-Pfittacula malaccenfis. Brif. 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. fynn. i. 312. n. i19. A.

Inbabits the Philippine inlands, and probably in other iflands of the Indian ocean.-This fpecies is fcarcely five inches long, and fometimes a good deal fmaller ; it is very fond of the milky juice of the cocoa-nut, and fleeps fufpended to the branch of a tree by one foot : The bill, legs, and feet are grey; the wing quills are blue on their under furfaces, except the outer edges which are green; the under furfaces of the tail quills are bluifh; the throat is blood-red. In the female the red colour of the throat and the blue colour of the crown are wanting, thefe parts being of the general green colour of the body.

Is green ; with a yellowifh blue head, having a tranfverfe orange bar on the hind head; the front, under part of the throat, and the tail coverts, being red. Lath. ind. orn. i. 13 r. n. 148. $\beta$.
Pfittacula philippenfis. Brif. av. iv. 392. n. 87. t. 30. f. i.-Coulicaffi. Buff. oif. vi. 169.Perruche des Philippines. Pl. enl. n. 520. f. 1. 2.-Philippine Parrakeet. Lath. fyn. i. 3 II, n. 119.

Inhabits with the former, and is of the fame fize.-The bill, legs, feet, and claws are red; the wing quills are blackifh, with dark green edges; the tail is rounded, the coverts being almof equally long with the quill feathers. In the female the head and nape are entirely green, and the cheeks have each a bluifh fpot. Lath.

## 154. Anaca Parrot.-129. Pfittacus Anaca. 129.

Is green above, and reddifh brown underneath; the crown being chefnut; the tail and a fpot on the back are pale brown, and the wings are edged with red.
Pf. Anaca. Lath. ind. orn. i. 131. n. 149.-Pittacula brafilienfis fufca. Briff. av. iv. 403. n. 93.Anaca. Raj. ay. 35. n. 8. Will. orrı. angl. I 17 . n. 8. Buff. oif. vi. 260.-Chefnut-crowned Parrakeet. Lath. fyn. i. 314. n. 120.

Inhabits Brafl and Guiana.-Is about the fize of a Lark : The bill and orbits are brown; the under coverts of the tail are reddifh brown; the tips of the primary wing quills are fea-green; the legs, feet, and claws are blackifl.

## 155. Purple-tailed Parrot.-130. Pfittacus purpuratus. 130.

Is green, with afh coloured crown and fcrag; 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. $\mathrm{N}^{\circ}$. vi.t. 16. Lath. fyn. i. 3 15. n. 121.

Inhabits Cayenne.-Is eight inches long : The bill is yellowifh; the fcapulars, baftard wings, edges of the wings, and ends of the wing quills, are dufky; the two middle tail quills are green edged with black at the tip; the legs and feet are afh coloured with yellowifh claws.

## 156. Grey-headed Parrot.-1 31. Pfittacus canus. 131.

Is green; the head, chin, and throat, being greenifh grey; the tail is rounded, and has a broad black bar.
Pf. canus. Lath. ind. orn. i. i32. n. 15 1.-Pfittacula madagafcarienfis. Briff. av. iv. 394. n. 88. t. 30. f. 2.-Perruche à tete grife. Buff. oif. vi. 17 i.-Petite Perruche de Madagafcar. PI. enl, n. 79 I. f. 2.-Grey-headed Parrakeet. Lath. fyn. i. 3 15. n. 122.

Inhabits Madagafcar and Mauritius.-Is fcarcely fix inches long: The bill is grey; the legs, feet, and claws are hoary. In the female the head is green.

## 157. Black-winged Parrot.-1 32. Pfittacus 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. i. 132. n. 152.-Perruche aux ailes variées. Buff. oif. vi. 172.-Petite Perruche de Batavia. Pl. enl. n. 791. f. i.-Petite Perruche de Luçon. Sonner. voy. 78. t. 41.-Black-winged Parrakeet. Brown, illuftr. t. 8. Lath. fyn. i. 316. n. 123.

Inhabits Java and Luzonia.-Is fix inches long: The bill and legs are durky; the green colour on the under parts of the body has a bluifh tinge; the upper part of the tail is purplifh; the two middletail quills are green, without any bar ; the under coverts of the tail are almoft equal in length withthe tail quills; the fecondary wing quills are yellowifh, fpotted with blue.

Is green; the wings being varied above with blue, and entirely blue underneath; ha ving reddifh 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. 3T7. n. 124-
Inhabits at the Cape of Good Hope.-Is four inches and a half long: This fpecies is fometimes found with a blue fpot on the crown, and having yellow legs and feet. Lath.

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\text { 159. Collared Parrot.-1 34. P/ittacus torquatus. } 134 .
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Is green; having a yellow tranfverfe bar ftreaked with black on the hind head.
Pf: torquatus. Lath. ind. orn. i. 133. n. 154.-Perruche à collier. Buff. oif. vi. 173.-Pétite
Perruche à collier. Sonner. voy. 77. t. 39.-Collared Parrakeet. Lath. fyn. i. 317. n. 125.

Inhabits the Philippine iflands.-This feecies, which does not learn to fpeak, is about the fize of the Ethiopian Parrot, $\mathrm{N}^{\circ}$. $5 \mathbf{2 7}$. The bill, irides, legs, and feet, are blackifh grey. In the female the hind head is blue with tranfverfe black ftreaks.

## 160. Leffer Parrot.-1 35. Pfittacus minor. 135.

Is green; having a fcarlet crown, fcarlet tail coverts, blue breaft, and black primary wing quills.
Pf. minor. Lati. 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 yellowifh green; the upper tail coverts are red. In the female the frontlet and breaft are red, and the fcrag has a yellow fpot.

## 16r. Tovi Parrot.—136. Pfittacus 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. i.-Yellow-throated Parrakeet. Lath. fyn. i. 319. n. 128.

Inhabits America? - Is about the fize of a Lark, meafuring a little more than fix inches long; the legs and feet are grey.

## 162. Tirica Parrot.-137. Pfittacus Tirica. 137.

Is green; with a carnation bill; and having bluifh 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. 28 r.-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.

## 163. Sofove Parrot.-I 38 . Pfittacus Sofove. I 38.

Is green, with a grey bill; the coverts of the wings and tail are marked with a pale yellow fpot.

Pf. Sofove. Lath. ind. orn. i. 134. 11. I59.-Sofové. Buff. oif. vi. 280.-Petite Perruche de Cayenne. Pl. enl. n. 45 6. f. 2.-Cayenne Parrakeet. Lath. fyn. i. 320 . n. 130.
Inhabies Guiana and Cayenne.-This fpecies is eafily tamed, and learns to fpeak with great diftinctnefs; its fize is not noticed: The legs and feet are grey.

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\text { 164. Tui Parrot.-1 39. P fittacus Tiui. } 139 .
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Tr areen ; with a black bill, orange frent, and yellow orbits.

Pf. Tui. Lath. ind. orn. i. 134. n. 160.-Pfittacula brafilienfis ifterocephalos. Briff. av. iv. 398. n. go.-Tui. Raj. av. 34. n. 4. Will. orn. angl. II6. n. 4.-Tovi à tete d'or. Buff. oif. vi. 284.Petite Perruche de S. Thomas. Pl. enl. n. 456. f. i.-Gold-headed Parrot. Lath. fyn. i. 32 I. n. 13 I .

Inhabits Brafil.-Is about the fize of a Starling : The eyes are large and blackifh. Sometimes this fpecies is found with the front pale yellow inftead of orange coloured, and having a red bill.
165. Red-tailed Parrot.-140. Pfittacus erythrochlorus. 140.

Is green, the head being crefted; and having red wings and tait.
Pf. erythrochlorus. Lath. ind. orn. i. I34. n. I6i.-Pfittacula criftata. Brif. av. iv. 404. n. 94.-Pfittacus erythrochlorus. Raj. av. 34. n. 4.-Crefted red-and-green Parrot. Will. orn. angl. i16. n. 3.-Crefted red-and-green Parrakeet. Lath. fyn. i. 32 I. n. 132.

Its place uncertain.-Is about the fize of a blackbird: The creft, which is moveable at pleafure, confifts of fix feathers, three of which are confiderably longer than the reft; the irides and hind head are red.

## 166. Mexican Parrot.-141. Pittacus mexicanus. 141.

Is green, with a creft on the front ; the tail and the wing coverts are purple, the orbits blue, the chin yellow, and fcrag red.
Pf. mexicanus. Lath. ind. orn. i. 135. n. 162. Ger. orn. ii. 21. t. 131.-Pfittacula mexicana criftata. Briff. av. iv. 405. 11. 95.-Avis de cocho. Seba, muf. i. 94. t. 39. f. 2.-Crefted Mexican Parrakeet. Lath. fyn. i. 322. 12. I 33.

Inlabits Mexico and New-fpain.-Is feven inches long: The bill is yellow; the wing quills have white edges; the thighs are bluif ; the legs, feet, and claws are afh coloured.

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\text { VI. T O U C A N.-6. R } A M P H A S T O S .46 .
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The bill is enormoufly large, thin, light, and empty, convex, and fomewhat ridged at the top, and ferrated at the edges; both mandibles being fomewhat hooked at the tip: The noftrils are long, narrow, and placed behind the bafe of the bill: The tongue is long, narrow, and feathered at the edges: The feet are moftly climbers, having two toes pláced 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 ftate flies about in little troops of eight or ten together, living moftly on fruits, particularly thofe of various palms; it breeds in hollows of trees, which have been deferted by WoodVol. L.
peckers, laying ufually two eggs each brood; it is very noify, and eafly tamed. Toucan is the Erafilian namc; the Latin name, which was given to the genus by Linnaeus, is derived from the form of its bill.

## \&. Green Toucan.-1. Ramphafos viridis. I.

Is green, with a yellow belly, and red rump.
R. viridis. Lath. ind. orn. i. 138. n. 9.-Tucana cayennenfis viridis. Briff. av. iv. 123. n. 8.
t. 33. f. 2.-Toucan verd de Cayenne. Buff. oif. vii. 127. Pl. enl. n. 727. 728.-Yellow-breafted

Toucan. Edw. t. 329.-Green Toucan. Lath. fyn. i. 33 I. n. 9 .
Inhabits Cayenne.-Is fourtecn inches long: The under mandible is black, its bafe and near the noftrils being red ; the uppcr mandible is yellow, with red fides, and having a black line along the ridge; the teeth in both are white; the naked orbits and the irides are ycllow; the tail is wedgelike, its under furface having a yellowifh tinge; the legs and feet are lead coloured, with black claws: In the male the head, chin, and throat are black ; in the female thefc parts are chefnut, divided from the green colour below by a narrow black tranfverfe bar.

## B. Toothlefs Green Toucan.-R. viridis edentulus.

The bill is not ferrated at the edges.
R. glaber. Lath ind. orn. i. i38. n. Io.-Smooth-billed Toucan. Lath. fyn. fup. 67 .

Inhabits with the former, and is nearly of the fame fize, meafuring twelve inches long.-It is placed as a diftinct fpecies by Mr Latham, but with a doubt that it may only be a variety: It is of a green colour, the under parts being greenifh yellow; the head and neck are chefnut; the rump is red; the bill is brown on the upper, and black on the under mandible; the thighs are green.

Is green, interfperfed with fome red fpots.
R. pavoninus. Lath. ind. orn. i. 137. n. 8.-Tucana mexicana viridis. Briff. av. iv. 423 . n. 7.Xochitenacatl. Fern. nov. hifp. 5 I. c. 187.-Hochicat. Buff. oif. vii. 125.-Pavonine Toucan. Lath. fyn. i. 33 I. n. 8.

Inhabits New-fpain and Mexico.-This fpecies lives near the fea-coaft, and feeds on firh; it refembles the Parrot a good deal in the general appearance of the body, and is about feventeen inches long: The bill is four inches long, and varicgated with black and yellow; the legs are fhort, and with the feet are black. Briffon, Gmclin, and Latham all add that this bird is interfperfed with pcafowl coloured, color puvoninus, and red fpots; while Fernandez, who is the only author who has feen it, as quoted in Buffon's Natural Hiffory of birds, mentions only the feattered red fpots.

The head, neck, and breaf, are black, having a narrow yellow half collar on the nape; the back, rump, and beily, are green; the tail is green, tipt with red.
R. piperivorus. Lath ind. orn. ․ ㄱ 38. n. J2.-Tucana cayennenfis torquata. Briff. av. iv. 429 .
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. I1.

Inhabits Cayenne.-Is thirteen inches long: The bill is black, with a red bafe; the orbits are naked and bluifh; the temples are each marked with an orange yellow fpot; 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 chefnut, 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 fcrag is brown, and the femilunar half collar is pale yellow.

Is dufky green, with the rump and ventlet red; the breaft and belly are yellow, the latter having a red bar.
R. Aracari. Lath. ind. orn. i. 138 . n. if.-R. roftro nigro. Syft. nat. ed. i. 104.-Tucana brafilienfis viridis. Briff, av. iv. 426. n. 9. t. 33. f. 2.-Aracari. Marcgr. braf. 217 . Raj. av. 44. n. 2. Will. orn. angl. 140. t. 22.-Aracari Toucan. Lath. fyn. i. 332. n. 10.-Grigri. Buff. oif. vii. 126.-Toucan verd de Bréfil. Pl. enl. n. 166.-Kleine Toucan. Wirfing. vog. t. 41.

Inhabits Brafil, Surinam, and Cayenne.-Is rather more than fixteen inches long: The back and tip of the upper mandible are black, the fides are whitifh; its bafe near the noftrils is dilated into three lobes, having a white arched line at the root ; the under mandible is black; the head, wings $x_{x}$ and tail are black; the breaft and belly are yellow and red, having a roundifh black fpot in the middle of the breaft, and a tranfverfely placed oblong black foot at the fore part of the belly; the rump is fcarlet; the thighs are red.

## 5. Collared Toucan.-5. Ramphaftos torquatus. 10.

Is black above, and whitifh underneath, with a green belly which is red at its pofterior part; the neck is furrounded by a red collar.
R. torquatus. Lath. ind. orn. i. 137. n. 7.-Tucana mexicana torquata. Brif. av. iv. 421 . n. 6.-Cochitenacatl. Fern. nov, hifp. 46.-Cochicat. Buff. oif. vii. 124.-Collared Toucan. Lath. fyn. i. $33^{\circ}$. n. 7 .

Inhabits New-fpain.-This fpecies, which meafures eighteen inches long, lives on the fea-coafts, and preys on fifh : The upper mandible is white, and the under mandible black; the head and neck are black, the under part of the throat being whitifh with a few red fots and fimall black ftreaks; the wings and tail are black; the under tail coverts are red; the thighs are reddifh purple; the legs and feet are greenifh afh, with black claws.
6. Brafilian Toucan.-6. Rampbafos pifcivorus. 4 .

Is blackifh, the temples, chin, throat, breaf, and rump, being white; the ventlet, and $a$ : bar on the belly, being red.
R. pifcivorus. Lath. ind. orn. i. 136. n. 4. -Tucana brafilienfis gutture albo. Briff. av. iv. 413 .
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. Reč-beaked Toucan.-7. Ramphafos erytbrorbynchos. if.

Is biackif, the cheeks, chin, and throat, being white; the upper tail coverts are fulphur yellow; the under tail coverts, and a femilunar mark on the breaft, are red.
iR. erythrorhynchos. Lath. ind. orn. i. i36. n. 5.-Tucana cayennenfis, gutture albo. Briff. av. iv. 416.12 .4 .t. 3 I. 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 bafe and ridge of the bill are yellow, the tip of the upper mandible and under part of the lower being red; the noftrils are edged with black; the orbits are bluifh; the legs and feet are leaden coloured, with black claws.
R. Tucanus. Lath. ind. orn. i. i36. n. 3. Borowik, nat. ii. 97. n. I. t. 6.-R. roftro rubro. Syft. nat. ed. i. Io3.-Tucana. Marcgr. braf. 2 I7.-Tucana brafilienfis gutture luteo. Briff. av. iv. 419. n. 5.t. 32. f. I.-Toucan furinamenfis. Pet. gaz. t. 44. f. 13.-Toucan à gorge jaune. Buff. oif. vii. 119. Fl. enl. n. 307.-Yellow-breafted Toucan. Edw. glean. t. 329. Lath. fyn. 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 reddifh tinge; the rump is fulphur yellow; the biil is black, with the bafe grey; the legs, feet, and claws are lead coloured.

## 9. Red-bellied Toucan.-9. Rampbafios picatus. 6.

Is blackif, with a red belly and ventlet, yellow breaft, black rump, and the tail quills are tipt with red.
R. picatus. Lath. ind. orn. i. 137 . n. 6.-R. roftro rubro apice nigro. Syf. nat. ed. i. io3.Tucana. Brifi.av. iv. 408. n. i.-Toucan à vcntre rouge. Buff. oif. vii. 122. Preacher Toucan. Lath. Tyn. i. 329. n. 6.-Toucan, or Braflian Pye. Albin, av. ii. t. 25. Will. orn. angl. 128. t. 20.-Pica braflienfis. Gefi. av. 8oo. Ald:. orn. i. 8oI. Raj. av. 44. n. 1.-Nafutus fimpliciter. Klein, av. 38. n. i.

Inhabits Guiana and Brafil.-Is fomewhat more than twenty inches long: The bill is greenifh gellow, and reddiff at the tip; the tip of the aill is dotted with red.

## 10. Yellow-throated Toucan.-10. Ramphafos dicolorus. 7.

Is blackih ; the breaft, belly, rump, and ventlet, being red, and the chin yellow.
R. dicolorus. Lath. ind. orn. i. 135. n. 2.-Toucana cayennenfis gutture luteo. Briff. av. iv. 4II. n. 2.t. 3 I.f. I.-Toucan à gorge jaune. Buff. oif. vii. ir8.-Toucan à gorge jaune de Cayenne. Pl. enl. n. 269.-Yellow-throated Toucan. Lath. fyn. i. 325. n. 2.

Inlabits Cayenne.-Is feventeen inches long: The bill is olive yellow, the bafe being black, and the edges red; the cheeks are fulphur yellow; the chin and throat are orange, edged with pale yellow.
11. White-throated Toucan.-11. Ramphaflos Toco. 12.

Is blackifh; the chin, throat, and rump, being white; the orbits, the ventlet, and a fmall circle on the breaft, are red.
R. Toco. Lath. ind. orn. i. I35. n. I.-Toco. Buff. oif. vii. I17. Pl. enl. n. 82. Lath. fyn. i. 325 n. I. t. 9 .

Inhabits Cayenne.-Is nine or ten inches long, exclufively of the bill, which meafures feven inches and a half in length; the bill is reddifh yellow, with the bafe black, and the upper mandible has a black tip.

Is yellowifh white, having two black freaks down each fide of the neck.
R. luteus. Lath. ind. orn. i. ı39. n. 13.-Tucana lutea. Brif. av. iv. 432. n. I i.-Xochitenacatl alia. Nieremb. hift. nat. 207. Jonft. av. ifg. Will. orn. angl. 386 .-Aracari à bec noir. Buff. oif. vii. $\mathbf{r}^{2}$ o.—Black billed Toucan. Lath. fyn. i. 335 . n. 12.

Inhabits New-fpain.-Is about the fize of a pigeon: The bill is black, the irides are yellow; the legs and feet are brown, with yellowifh claws.

## 13 Blue Toucan.-13. Rampbafos caeruleus. 14.

Is blue, variegated with afh colour ; the bill belng longer than the body.
R. caeruleus. Lath. ind. orn. i. I 39. n. 14.-Tucana caerulea. Briff. av. iv. 433. n. 12.-Aracari bleu. Buff. vii. 13 I.-Altera Xochitenacatl. Fernand. nov. hifp. 47. Nieremb. hift. nat. 209. Jonft. av. 126. 157 . t. 56.-Blue Toucan. Lath. fyn. i. 335 . n. 13 .
Inhabits New-fpain.-This fecies, which is about the fize of a pigeon, lives on the fea-coafts: The bill is yellow on the upper, and reddifh yellow on the lower mandible; the eyes are black, with tawny or reddifh yellow irides.

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\text { 14. Doubtful Toucan.-14 Ramplafos dubius. } 15 .
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The throat is blue. Lath. ind. orn. i. I 39. n. I5.
Blue-throated Toucan. Lath. Fyn. i. 336. n. $14^{6}$

Thefe two laft mentioned are very imperfecly known or defcribed，and are introduced by Dr Gmelin on the authority of Mr Latham，who＇las omitted the White fpecies in his Index ornitho－ logicus．

## VII．MOTMOT．－MOMOTUS．

The bill is ftrong，flightly incurvated，and ferrated at the edges：The noftrils 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 al－ moft their whole length，but not webbed，and one behind．

This genus is included both by Linnaeus and Dr Gmelin in the former，as a fpecies of Toucan； but it differs very efentially from that tribe，in the ftructure of the feet，in the lefs difproportioned fize of the bill，and in its general manners and way of life；it agrees however in the ftructure of the tongue，and in the bill being ferrated．Thefe remarkable differences have not efcaped the attention of Dr Gmelin，who expreffes a doubt that this ought to be confidered as a diftinct genus，and，on the very refpectable authority of Mr Pennant and Mr Latham，it is here placed as fuch．The name， Motmot，is adopted by Mr Pennant from Fernandez．－Te．

Is green，with a bluifh green front，violet hind head，and black crown．Lath．ind．orn．i．． 140．n． 1 ．

Ramphaftos Momota．Syft．nat．ed．Gm．357．n．8．Borowfk．nat．ii．98．n．4．－Momotus．Briff． av．iv． 465 ．t． 35 ．．f． 3 ．－Momot．Will．orn．angl．386．t．24．Raj．av．164．－Momot，or Houtou．
 t．10．－Guira Guainumbi．Marcgr．braf．193．—Brafilian faw－billed Roller．Edw．glean．t． 328.

Inhabits Brafil．－This fpecies．is about the fize of a Blackbird in the body，but meafures eighteen： inches long，owing to the great length of the two middle tail quills；it lives in a folitary manner in the moft fequeftered parts of the foreft，building a neft of dried grafs on the ground，or in holes． which have been deferted by Armadillos，laying two eggs each brood；it feeds on infects，and when in confinement it eats raw $⿴ 囗 ⿱ 一 一 ⿻ 上 丨 匕 刂 灬$ efh，which it tears into fmall pieces and macerates in water；when taken it ffikes violently with its bill；the voice is hoarfe，tremulous，and weak．The general colour is a fplendid olive green above，and rufty on the lower parts of the body，a few of the feathers on the breaft 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 garnifhed with longifh moveable whifkers；the． wing quills are blue；the tail is wedgc－like and near twelve inches long，its two middle quills being much longer than the reft，and in fome individuals thefe want webs for about two inches on each fide
near the ends, which are webbed, and of an oral fhape; the bill is of a moderate fize, about two inches long, of a blackifh colour, its bafe being flefh coloured; the legs and feet are black, with hooked claws.

## ß. Variegated Brafilian Motmot.-M. brafilienfis variegatus.

The plumage is variegated with green, tawny, blue, and afh colour. Lath. ind. orn. i. 140. n. I. $\beta$.

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. I. A.
Inhabits with the former, from which it differs chiefly in colour.

## VIII. S CYTHROPS.-SCYT゙HROPS.

The bill is large, convex, fharp edged, channeled at the fides, and hooked at the point: The noftrils are rounded, naked, and placed at the bafe of the bill: The tongue is cartilaginous, and fplit at the point: The legs are formed for climbing, having two toes before and two behind.

This genus, of which only one fpecies is hitherto known, holds a kind of middle rank between the Hornbill and Toucan ; having a large bill, not quite fo difproportioned as in the latter, and not ferrated, and wanting the horny excrefcence of the former, it likewife wants the feathery tongue of the Toucan.

## 1. Pfittaceous Scythrops.-Scythrops pfittaceus.

The only known fpecies.
Scythrops novae-hollandiae. Lath. ind. orn. i. 141. n. i.--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 meafures 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 fmooth, and the fore part is bent downwards; its colour is pale brown, turning yellowifh towards the tip; the noftrils are placed at the bafe of the bill, are oval, naked, and furrounded with a red wrinkled fkin; the orbits are naked, and, efpecially above the eyes, the fkin is red and wrinkly; the tongue is a third part fhorter than the bill, and is filit into two at the end; the head, neck, and under parts of the body are pale bluegrey; the back, wings, and tail, are aff coloured, moit of the feathers having dufky blackifh tips; the tail is long and wedge-like, the two middle feathers meafuring elven inches, and the outer quill on each fide little more than feven; a black bar croffes the whole ncar the end, and all the tips are white; the black tips of the feathers on the back and wings form feveral tranfverfe bars on the wings; the wings are long, and when clofed reach more than three fourths of the length of the tail; the legs are fhort and fcaly, 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, fuppofe that its voice is harfh, noify, and importunate ; perhaps it might be named Scolder in Englifh.-T.

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\text { IX. H O R N B I L L.-7. } B U C E R O S .47
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The bill is large, convex, bent downwards, fharp edged, moftly jagged or ferrated outwardly, and having a large horny protuberance on the upper mandible at its bafe, or on the forehead: The noftrils are placed behind the bafe of the bill: The tongue is fhort and fharp 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 ufe of which is not apparent; the Hornbill inhabits the fame climates and the fame kind of places in the old world that are occupied in the new by the Toucan, and fo far as can be learned their modes of life are very fimilar.

## I. Philippine Hornbill.- I. Buceros bicornis. I.

The horny protuberance is flat, and divided at its fore part into two horns; the bill is reddifh. Amoen. ac. iv. 237.
B. bicornis. Lath. ind. orn. i. 142. n. 3.-Hydrocorax philippenfis. Briff. av. iv. 568. n. 2.Rhinoceros avis prima. Will. orn. t. 17. f. i.-Calao. Pet. gaz. 43. t. 28. f. 6. and t. 3 I. f. I. Edw. av. ii. t. 281. f. D.-Philippine Hornbill. Lath. fyn. i. 345. n. 3.

Inhabits the Philippine iflands.-Is about the fize of a common Hen : The bill is reddifh, being black at the bafe of the lower mandible, and meafures nine inches long; the upper parts of the body are black, and the under parts white ; the wing quills have each a white fpot; the tail is longifh, its ten middle quills being black, and the four outer quills on each fide white; the legs and feet are greenifh.
ß. Red-billed Philippine Hornbill.-1. B. B. bicornis erythrorbynchos.
The bill is vermilion red. Lath. ind. orn. i. r43. n. 3. A.
Calao, or Cayao. Phil. tranf. xxiii. I394. Lath. fyn. i. 345. n. 3. A.
Inhabits with the former.-The belly in this variety is black ; the back and rump are brown-afli: ; the head and neck are reddifh, and the irides are white.

This bird is worfipped by the Indians; its voice refembles the grunt of a Sow, and the bellowing of a Calf; it lives much on fruits, which are fwallowed whole, and, when the pulp is digefted, the ftones are caft up unhurt. The fize of the fecond variety is not mentioned.

## 2. Abyffinian Hornbill.-2. Buceros abyfinicus. 5.

Is black: The horny protuberance has a flattened femicircular furface; the orbits, cheeks, temples, chin, and upper part of the throat, are covered with naked warty flefh, of a light blue colour, growing red when irritated.
B. abyffinicus. Lath. ind. orn. i. 143. n. 4.-Calao d'Abyffinie. Buff. oif. vii. i55. Pl. cnl.n. 779.-Abyfinian Hornbill. Lath. fyn. i. 347. n. 4.-Erkoom, Abba-gumba, Teir-el-naciba. Bruce, Abyff. v. t. p. 169.

Inhabits Abyfinia and Sennaar.-Is three feet ten inches long: The bill is black, with white edges; the protuberance at its bafe is of the fame colour, its upper furface being femicircularly flattened, and. fomewhat projecting at the edges; about the bafe of the upper mandible, on each fide, is a tuft of briftly hairs; the naked flefh about the face and neck refembles that of a Turkey cock, like that too it is light blue and flaccid at times, and grows red and tumid when the animal is irritated, or when attending his female in the breeding feafon; the general colour of the plumage is footy black, the outer wing quills being white. This bird was firft obferved by the celebrated Abyfinian traveller Mr Bruce; it runs much on the ground, but when raifed flies ftrongly and to a confiderable diftance; it lives chiefly on green beetles which infeft the Teff plant, a fpecies of bread corn cultivated in that country; it builds in large bufhy trees, generally near churches, and has numerous broods, as far as eighteen; it has a putrid or rank fmell, which has led fome miftakenly to believe that it preys oncarrion and dead bodies.

## 3. African Hornbill:-3. Buceros africanus. 6.

Is black : The protuberance is ftraightifh 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. befler. t. 9. n. 7.—Brac, Calao d'Afrique. Buff, oif, vii. 154.-Oifeau trompette, Trompette de Brac. Labat, voy. iv. ı60. 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, fharpedged 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 Nalabar. Buff. oif. vii. 149. t. 8. Plo, enl. n. 373 ? Edw. glean. t. 28 r. f. D.-Pied Hornbill. Lath. fyn. i. 349. n. 6. t. ir.

Inhabits India.-Is two feet and a half long, fometimes three feet; in confinement at Paris this bird eat raw flefh, rats, and fmall birds: The bill-is dirty yellowifh white, and the greater part of the protuberance or falfe bill, which is extremely thin, is black; the head has a pendant creft behind, and at the bafe of the under mandible fome plaits of naked white fkin; the upper parts of the body, the head, neck, and fore part of the breaft are black with a flight violet and greenifh tinge; the under parts are dirty white; fome of the wing coverts have irregular brown edges; the outer quilk

Vol. I. 4 K feathers
feathers of the wings are white at the end; the four middle tail quills are black, all the reft being white, exeept only at the bafe, whieh is black; the thighs are dirty white and feathered below the knees; the legs and feet are thick, ftrong, fcaly, and blaek, with long, hooked, bluntifh elaws.
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. Brifl. av. iv. 55 6. n. 1. t. 45.Corvus marinus. Cluf. exot. io6.-Corvus indicus. Bont. jav. 62. Will. orn. 86. t. r7. Raj. ar. 40. n.7.-Corvus torquatus. Klein, av. 5 8. n. 2?-Corbeau indien. Salern. orn. 9r. n. 8.t. g.f. 3 . Buff. oif. iii. 4 r.-Calao des Moluques. Buff. oif. vii. 147. Pl. enl. n. 283-Indian Raver. Wili. orn. angl. 126. n. 7.-Indian Hornbill. Lath. fyn. i. 35 I. n. 7 -

Inhabits the Molucca iflands.-This fpecies is two feet four inches long; it is frequently domefticated, and is ufeful for deftroying rats and mice; in its ftate of nature it feeds on Nutmegs, from: which its flefh acquires a highly aromatic flavour. The protuberance on the bill is blackifh afh, growing whiter backwards; the crown of the head is blackifh; the fides of the head, the throat, and the wings are blaek; the hind head and fcrag are chefnut; the back, fhoulders, rump, wing coverts, and tain coverts, are brown; the breaft and belly are blackifh, the hinder part of the belly being yeillowilh; the tail quills are dirty whitifi ah; the legs and feet are fhoit and brown-grey, with blaek claws.

## 6. Rhinoceros $\ddagger$ Iornbill.-6. Buceros Rbinoceros. 3 .

The protuberance is harp pointed, and turned upwards at its fore part.
P. Rhinoceros. Lath. incl, orn. i. r41. n. r.-Rhinoceros avis. Bont. jav. 63.t. 64. Olear. muf. t. 13. f. 4. Worm. muf. 293. Aldr. orn. i. 84. Befler. muf. t. 20.-Corvus indicus cornatus. Raj, av. 40 . n. 8.-Hydrocomax indicus. Briff. av. iv. 57 r. n. 4.-Calao Rhinoceros. Buff. oif. vii. 16r. Pl. enl. n. 934-TTopau, Borowfk. nat. ii. 98. t. 7.-Rhinoeeros bird, or Momed Indian Raven.

Will. orn. angl. 127 . t. 17. Edw. glean. t. 281. f. b.-Rhinoceros Hornoill. Lath. fyn. i. 342. n. 1. fup. 69.-Great Hornbill, or Rhinoceros bird. Nat. mifc. ${ }^{\circ}$. xiv. t. 41 .

Inhabits India, Java, Sumatra, and the Philippine ifles.-This fpecies, which meafures three feet long, and is about the fize of a Turkey, preys on rats, mice, and carrion, having a moft voracious appetite, and is faid to follow the hunters on purpofe to feed on the offal and inteftines of their game: The bill is whitifh yellow, and meafures ten inches long, the bafe of the upper mandible and upper furface of the horn or protuberance being red ; the horn is eight inches long, its under furface is of the fame colour with the bill, and its upper furface is marked with a longitudinal black line; the body is black, its under and poiterior 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 dudky grey.

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\text { 7. Helmet Hornbill.-7. Buceros galeatus. } 8 .
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Has a ftraightifh bill, the protuberance being almolt fquare, its fore part flat and hindea part rounded.
B. galeatus. Lath. ind. orn. i. 142. n. 2.-Calao à cafque rond. Buff. oif. vii. 159. Pl. enl. ne 933.-Semenda. Aldr. orn. i. 833.-Helmet Hornbill. Edw. glean. t. 281. c. Lath. fyn. i. 343 . n. 2 .

Inhabits Afia.-The bill is eight inches long, and of a conical form, being mofly red ; the protuberance rifes to a great height: It would appear that hitherto only the bill and head of this fpecies have been feen by naturalits; in the fecimen poffeffed by Mr Latham the bill is furrounded with black feathers at its bafe. Buffon fuppofes that this fhould be among the largeft of the genus, from the fize of the head and bill; in the fpecimen belonging to the French royal cabinet the colour of thebill is a tarnifhed browniff red, while that delineated by Mr Edwards is vermilion red.

## 8. Panayan Hornbill.-8. Buceros panayenfis. 9.

The protuberance is fharp edged above, and flattened laterally; the body is greenifit black above, and reddifh 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. 7.81.-Panayan Hornbill. Lath. fyn. i. 353. n. 8.

Inhabits the ifland of Panay in india.-Is about the fize of a Raven : The bill is very long, much arched, ferrated or toothed at the edges, fharp pointed, and compreffed laterally; it is tranfverfely wrinkled, and longitudinally furrowed for two thirds of its length, the furrows being orange coloured, and the intermediate projections brown; the orbits are brown and naked; and the eyelids have ftiff briftly eyelafhes; the irides are whitifh : In the male the head, neck, back, and wings are greenifh black; in the female the head and neck are white, except a large triangular greenifir black foot, on each fide, extending from the bafe of the bill to beyond and below the eye: In both the upper part of the breaft is bright brown-red, the belly, ventlet, and thighs, being dark brown-red; the tail. has ten quill feathers which are reddifl yellow from the bafe to beyond the middle, the extreme third of their length being black; the legs and feet are lead coloured:

The bill is not ferrated, and has a light protuberance; the body is blackifh brown above, and dirty white beneath.
B. manillenfis. Lath. ind. orn. i. 145. n. 9.-Calao. de Manille. Buf. oif. vii. 144. P1. enl. n. 891.-Manilla Hornbill. Lath. fyn. i. 354 . n. g.

Inhabits Manilla, one of the Plilippine iffands.-Is about twenty inches long: The bill is lefs bent, and its tip is fharper than in the other fpecies of this genus, and the protuberance on the bill is fcarcely any thing more than a raifed fharp-edged longitudinal ridge, or keel-like prominence; the head and neck are yellowifh white, waved with brown, and having a black fpot on each temple, which in fome individuals extends down to the chin uniting with the mark on the oppofite fide; the tail has a reddill bar acrofs the middle.

## 10. Tock.-10. Buceros nafutus. 4.

The bill is black, and has no protuberance; the tail-quills are white at the bafe and tips.
B. nafutus. Lath. ind. orn. i. 145. n. ro.-Hydrocorax fenegalenfis melanorhynchos. Brif. av. iv. 573 . n. 5. t. 46. f. I.-Crotophaga. Forfk. faun. arab. 2. n. 4.-Tock jeune. Buff, oif, vii. 141.-Calao à bec noir. Pl. enl. n. 890.-Black-billed Hornbill. Lath. fyn. i. 354. n. 10.

## ß. Red-billed Tock.-ro. B. B. nafutus erythrorbynchos.

The bill is red. Lath. ind. orn. i. 145 . n. 10. $\beta$.
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. io. A.

Inhabits near the river Senegal, and other hot regions of Afia and Africa.-Thefe two varieties are faid by the Count de Buffon to be the fame bird at different periods of life; the former, or Blackbilled Tock, being the young bid, while the latter is the fame bird in its adult fate : In the former the plumage is grey-afh, the wing quills being black in the middle and white at both ends: In the latter it is blackifh 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 whitifh: In the younger birds the bill, legs, and fect, are black, growing reddifh in the older birds: In both the bill is large and bent downwards, but has no protuberance. It is about the fize of a Woodpecker, being about twenty inches long; it feeds on fruits, and in confinement eats bread or almoft any thing: The young bird is very ftapid, eafily caught, and readily becomes tame.

## in. White Hornbill.- I 1 . Buceros albus. in.

The bill is black and very much bent downwards, having no protuberance; the body is entirely white, with black legs and feet.
 1ail. Lath. fyn. i. 35.0 r. ir.

Inhabits the Ladrone iflands.-This fpecies is about the fize of a Goofe; the neck is fmall and about a foot long: The only individual of this fpecies hitherto feen, was caught at fea between the iflands of Tinian and Pulo-timoen; it is very impcrfectly defribed.

## 12. Wreathed Hornbill.- i2. Buceros obfcurus. 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. $7^{0}$.

Inhabits the ifland of Ceram, and New-guinea.-Is about the fize of a Crow: The bill is bent, and meafures fix or feven inches long, its edges being fmooth; the protuberance on the fore-head rifes about an inch : In fome individuals the neck is faffron yellow.
B. Ceylon Wreathed Hornbill.-B. obfcurus zeylanenfis.

The protuberance has five lobes; the body is clouded with black and grey, having a black tail. Lath. ind. orn. i. 146 . n. I2. $\beta$. Syn. fup. 71. § 2.

Inhabits Ceylon.-Mr Latham fufpects that this may be a young bird of the Wreathed fpecies. The bill is yellow, heving a naked blue fpot at the bafe of the under mandible; the primary wing quills are black, with white tips; the outer tail quill on each fide is half white half black; the crown of the head is black; the legs and feet are ftrong and bluifh.

## 13. Gingi Hornbill.-Buceros ginginianus.

The bill is bent and laterally compreffed, having a pointed protuberance on the forehead; the body is grey above and white beneath. Lath. ind. orn. i. 146. n. 13. Syn. fup. 7 .

Calao de Gingi. Sonner. voy. ii. 214. t. 121 .
Inhabits the Carnatic.-Is two feet long: The bill from the bafe to about the middle, and the protuberance are black, the reft being white, and its edges are ferrated; the wing quills have white tips; the lateral tail quills are black, having a brown crofs 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 feet are black.

## 14. Eaftern Hornbill.-Buceros orientalis.

The bill is convex and ridged above, its bafe being protuberant; the orbits are naked, wrinkly, and afh coloured; the body, wings, and tail, are blackifh. Lath. ind. orn. i. 147 n .14.
New-holland Hornbill. Lath. fyn. fup. 72.
Inhabits New-holland.-Is fcarcely fo large as a Jay: The noftrils are fittuated near the 5afe 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 bafe having a black fpot; at the corner of each eye is a tuft of briftles, and behind each eye a naked blue fpot; the wing. coverts are variegated with black; the wing quills have white tips.

## 16. Green-winged Hornbill.-Buceros chloropterus.

The protuberance is abrupt ; the body is black, with greenifh wings.
B. viridis. Lath. ind. orn. i. 147. n. 16.-Green-winged Hornbill. Lath. fyn. fup. 73.

Its place uncertain.-The bill is yellowif, having a naked bluifh white fpot at the bafe of the under mandible; the outer tail quills, the bafes of the wing quills, and the belly, are white; the legs and feet are bluifh. Perhaps this might be confidered as a variety of the preceding fpecies.

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\text { X. BEEF.EATER.-8. } B \cup P H A G A .48 .
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The bill is ftrong, thick, ftraight, and fomewhat fquared; the mandibles being protuberant, chiefly at the fides; the feet are formed for walking.

The Latin name of this genus, as well as its Englifh and French appellations, is derived from its cuftom of picking holes in the backs of cattle on purpofe to get at the larvae of infeets of the Gad-fy kind which are there depofited.

1. African Beef-eater.-1. Buphaga africana. .

Only this fpecies hitherto known.
B. africana. Briff. av. iv. 457 . n. 1. t. 42. f. 2.-PPic-boeuf. Buff. oif. iii. 175.t. 14. Pl. enl.n 293.-African Beef-eater. Lath. fyn. i. 359. n. I. t. 12.

Inhabits Africa, near the Senegal.-Is about the fize of the Crefted Lark, meafuring eight inches and a half long: The body is brown-grey above, with a yellowifh rump, the under parts being likewife yellowifh ; the bill, which is not quite an inch long, is fometimes yellowifh with a red tip, and fometimes entirely black; the tail is wedge-like, having twelve brown-grey quills which are narrow at the ends, the outer quills on each fide being reddifh on their inner webs; the legs and feet, with the claws, are brown.

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\text { XI. ANI.-9. } C R O T O P H A G A .49
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# back of the upper mandible, bent, and almoft oval; the upper mandible having an angular projection on its edge at each fide: The noftrils are round and open. 

This genus is named from its habit of feeding on certain infects: The feet in three of the fpecies are fitted for climbing; the tongue is flattered laterally and becomes flender at the end. Mr Ray confiders the firt fpecies as congeneric with Parrots.

## I. Leffer Ani,-1. Crotophaga Ani. 1.

Of a blackilh-violet colour, the edges of the feathers having a coppery green calto Lath. ind. ofn. i. it $4^{9}$. n. I.

Crotophagus. Briff. av. iv. 177.t. i8.f. x. Ger. orn. ii. 53.t. Igo. Borowfl. nat.ii. ıoi.t.8.Crotophagus ater. Brown, jam. 474.-Monedula nigra garrula. Sloan. jam. ii. 298. t. 256. f. 1.Ani. Marcgr. braf. 193. Will. orn. 120. Raj. av. 35 . n. 10. and 185. n. 129.-Ani des favanes. Buff. oif. vi. 420 .-Leffer Ani. Lath. fyn. i. 360 . n. i. t. 13.-Petit bout-de-petun. Pl. enl. n. 102. f. 2.-Cacalototl. Raj. av. 168. n. 27.-Razor-billed Blackbird. Catefb. carol. app. t. 3.

Inhabits the warmer parts of America and the Weft India iflands.-This fpecies, which is about thirteen inches and a half long, is gregarious and builds large neits, in which five or fix 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 fea green colour, fpotted at each end : It feeds on fruits, feeds, fmall ferpents, lizards, and other reptiles, worms, infects, particularly grafshoppers, and in the beginning of fpring on the Acarus ricinus, a fpecies of Tick, at that time very numerous on the backs of cattle ; the cattle at this feafon lie down to give the Ani an opportunity of picking off the ticks. The general-colour is black, with fome violet fhades all over the body, the feathers on the middle of the back and of the wing coverts being flightly edged with dark fhining green; the tail confifts of ten quills, is wedge-like, and meafures more than half the whole length; the tip of the upper mandible is hooked; the noftrils are oval; the tongue is flefhy and whole at the tip; the legs and feet are black.

Of a blackifh-violet colour, the feathers having green edges; the wing quills being dufo ky green. Lath. ind. orn. i. i48. n. 2. Syn. i. 362. n. 2.

Crotophagus major. Briff. av. iv. 180. t. 18. f. 2.-Ani des palétuviers, Botit-de-tabac, Amangoua. Buff. oif. vi. 423.t. ig. Salern. orn. 73. n. io.-Greater Ani. Lath. fyn. i. 352. n. 2.Grand bout-de-petun. Pl. enl. n. io2. f. i.

Inhabits the fame countries with the former.-This fpecies meafures eighteen inches long, and is confiderably larger than the former fecies, which it refembles 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 fides of the fea or of falt marthes: The green edges of the feathers are likewife more remarkable in this than in the former fpecies; it is readily made tame, but both this and the former fpecies have an unpleafant odour, and their flefh is not eatable.

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 fpecies meafures eleven inches long; the bill is black, bent downwards, and is weaker than in the other fpecies of the genus; the head, throat, and breaft, the larger, and the middle coverts of the wings, and the tail are black, the reft of the body being tawny red; the tail is long; the legs and feet are tawny brown. Gerini fays that this bird was formerly kept at Verfailes, whence a picture done from the life was fent to Florence; it is fomewhat remarkable that this. circumftance fhould have efcaped Buffon.
4. Walking Ani.-3. Crotophaga ambulatoria. 2.

The feet are formed for walking.
Cr. ambulatoria. Lath. ind. orn. i. I49. n. 4. Borowfk. nat. ii. 102. n. 2.-Walking Ani. Lath. fyn. i. 363 . n. 3 .
Inhabits Surinam.-This feecies refembles the Leffer Ani in every refpect except the ftructure of its feet, having three toes forwards and one back toe, while all the other fpecies of the genus have climbing feet; like the Leffer Ani likewife the tail has ten quill feathers. Mr Latham confiders this as rather a doubtful fpecies.

> XII. W ATTLET.-Io. GLAUCOPIS.

The bill is arched, and bent downwards; the under mandible being fhorter than the upper, and having flefhy wattles at its bafe: The noftrils are depreffed, and almoft covered by a fomewhat cartilaginous membrane: The tongue is fomewhat cartilaginous, its tip being fplit and fringed: The feet have three fore toes and only one behind, being formed for walking.

## 1. Cinereous Wattlet.-I. Glaucopis cinerea. 1.

The only known fpecies.
Callaeas cinerea. Lath. ind. orn. i. I49. n. I.-Cinereous Wattle-bird. Lath. fyn. i. $3_{6} 6_{4}$ n. ı. t. 14.

Inhabits New-zealand.-This bird is about the fize of a Jay, and meafures fifteen inches long; it walks moftly on the ground, and very feldom perches on trees; it feeds on berries, infects, and even preys on fmall birds; the voice is whiftling and humming, being not unpleafant; the flefh is excellent. The bill is black; the body is dark afh, with a black face; the tail is long, wedge-like, and confifts
confifts of twelve quills; at the bafe of the lower mandible are two wattles on each fide, 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 Syftema naturae, to Callaeas, but without affigning any reafon.

## XIII. CROW.-II. $C O R T U S .50$.

## The bill is convex and fharp edged: The noftrils are covered by reverfed 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 fpecies are extremely prolific, remarkably focial and gregarious, and very clamorous; they build monly in trees, fome fpecies forming vaft affociations, and lay ufually fix eggs each brood; they are promifcuous feeders, eating both of animal and vegetable food. Mr Latham adds to the Limacan character, that the bill has a fmall tooth-like procefs on each fide near the point; the middle toe is joined to the outmoft as far as the firft joint.

## 1. Hotientot Crow.- i. Corvus botlentotius. 1.

Is greenifh black, with an equal tail, and having very long whifkers.
C. hottentottus. Lath. ind. orn. i. 156. n. 12. Borowfk. nat. ii. 103. n. 2.-Monedula capitis bonae-fpei. Brif. av. ii. 33. n. 1o. t. 2, f. 2. Ger. orn. ii. 36. t. 148.-Choucas mouftache. Buff. oif. iii. 79.-Choucas du Cap. PI. enl. n. 226.-Hottentot Crow. Lath. fyn. i. 380. n. io.

Inhabits at the Cape of Good Hope.-Is eleven inches long, being about the fize of a Thrufh : The whifkers, which are black and near three inches long, rife from the bafe of the upper mandible above the noftrils, and fimilar whifkers, but ftiffer and fhorter, are fituated on each fide at the angle of the mouth; the feathers of the fereg, or hind part of the neck, are longer and narrower than the reft, and hang loofely.

## 2. Raven-2. Corvus Corax. 2.

Is black, glofled with bluifh on the back; the tail is roundifi.
Corvus. Gefn. av. 334. Aldr. orn. i. 684. t. p. 685. Johnf. av. 38.t. 16. Raj. av. 39. n. I. Briff. av. ii. 8. n. 1.-C. maximus. Scop. an. i. 34. 11. 45.-C. Corax. Lath. ind. orn. i. 150. n1. I.Korp. Fann. fuec. n. 85. Faun. groenl. 62. 11. 38.-Corbeau. Buff. oif. iii. 13.t. 2. Pl. enl. n. 495.-Rabe. Gunth. neft. t. 71. Frifch. av. t. 63.-Raven. Drrt. zool. n. 74. Arct. zool. ii. 245. n. 134. Alb. av. ii. 19. t. 20. Lewin. brit. b. i. t. 33. Id. t. vi. f. I. Wil. orn. 121. t. 18. Ruffel, alep. 69. Lath. fyn. i. 367. n. I. fup. 74.

Inhabits all Europe, Siberia, Kamtfchatka, and North Americn as far funth as New-ipain.-This is the largeft fpecies of the genus, meafuring two feet two inches in length, and weighing thrce Founds: It feeds on carrion, birds, eggs, fmall birds, and fick or wenkly lambs, fleep, fift, fhellfifh, and wild berries, and, when preffed with hunger, will cven dicrour dricd fkins, and excrements;
it is greedy, thieving, and clamorous, and may be taught to fpeak; it builds in high trees or lofty rocks, pairing in March; the female lays five or fix bluifh green eggs fpotted with brown in April, thefe the male fits on by day and the female in the night time. The Raven is a long liver, and has a very quick fenfe of fimelling; its flefh is eaten by the Greenlanders, who make clothes of the ikins, ufing the wings for brufhes, and forming the fplit quills into fifhing lines. The tail is flightly bent downwards, and has a fmall tooth on each fide near the point ; the voice is a fhort rough croak, repeated at intervals.

## 3. White chinned Crow.-3. Comvus clericus. 20.

Is black, having a white chin; the bafe of the bill is afh coloured. Muf. carlf. i. t. 2. Lath. fyn. i. 152. n. 4. $\beta$.

Inhabits Sweden.-The colour on the greateft part of the body is footy black, the head, neck, and middle of the back, being clear black, and the upper furfaces of the wing and tail quills having a violet tinge. This bird is very rare even in Sweden ; Dr Gmelin does not mention its fize, but fufpects it may belong to the Raven fpecies; Mr Latham ranks it as a variety of the Carrion Crow, and fays. it is of the fame fize with it.

Is black, with brownifh-black wings; the feathers of the chin being loofe.
C. auftralis. Lath. ind. orn. i. 151. n. 2.-South-fea Raven. Lath. fyn. i. 369. n. 2. Cook, laft voy. i. ıog.?

Inhabits the Friendly iflands in the Pacific ocean.-Is nineteen inches long, of which the tail meafures eight : The bill is very ftrong at the bafe, and is flattened at the fides.

## 5. White-necked Crow.-Corvus albicollis.

Is blackifh, with brownifh wing coverts; having a broad femilunar white patch on the fcrag. Lath. ind. orn. i. 15 I. n. 3. Syn. fup. $75 . \S 2$.

Its place uncertain, perlaaps Africa.-Is almof as large as the Raven, meafuring twenty inches in length: The bill is three inches and a quarter long, being ridged on the back of the upper mandible, almoft like that of the Ani, having its bafe covered with reflected briftly feathers; the broad white femilunar patch almoft covers the whole back of the neck, it grows narrower as it comes forwards, and its narrow ends almoft meet before; the tail has twelve quills, and the wings reach almoft to the end of the tail; the legs and feet are black, and extremely rough. Mr Latham fufpects it may be a variety of the Southern Crow.

## 6. Carrion Crow.-5. Corvus Corone. 3.

Is entirely black, gloffed with violet-blue; the tail is rounded, its quills being pointed at the ends, Faun. fuec. n. 86. Scop. an. i. 35 . n. $3^{6}$.
C. Corone. Lath. ind. orn. i. is r. n. 4.-Cornix. Gefn. av, 320. t. 32 I. Aldr. orn. i. 734 . t. p. $73^{\text {6. Raj. av. 39. n. 2. Brif. av. ii. 12. n. 2.-Corbine, Corneille noir. Buff. oil. iii. } 45 \text { - }}$ t. 3. Pl. enl. n. 483 .-Blaue Raage. Brunn. n. 29.-Carrion Crow. Brit. zool. n. 75. Arct. zool. ii. 246. n. I35. Albin, av. ii. t. 21. Will. orn. angl. I22. t. 18. Lewin, brit. b. i. t. 34. Lath. fyn. i. 370 . n. 3 .

Inlabits 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 laft circumftance it is fometimes extremely deftructive in corn fields; it builds in woods, on the branches of trees, laying five or fix eggs very like thofe of the Raven. The whole plumage is bluifh black, the female being duller in the colour.

## $\beta$. Varied Carrion Crow.-5. B. C. Corone varius.

Is varied with white in fome parts. Lath. ind. orn. i. 152 . n. 4. $\gamma$.
Corvus varius. Brun. orn. bor. 8. n. 28.-Cornix varia. Brif. av. ii. 15. n. 2. A.-Bunte Kraehe, Schekige Krache. Frifch, av. t. 66.-Variegated Crow. Lath. fyn. i. 370.n. 3. ^.

Inhabits the Feroe iflands.-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.

Is entirely white. Lath. ind. orn. i. I52. n. 4. ס.
Cornix alba. Briff. av. ii. 15.n. 2. B.-White Crow. Lath. fyn. i. 372 .
Inhabits Iceland.

## 7. Rook.-6. Corvus frugilegus. 4 .

Is black, with a fomewhat afh coloured front; the tail being roundifh at the end. Faun. fuec. n. 87. It. oel. 67 .
C. frugilegus. Lath. ind. orn. i. 152. n. 5. Kram. el. 333. n. 2. Borowfk. nat. ii. 105. n. 4.Cornix frugilega. Aldr. orn. i. 75 I. t. p. 753 . Raj. av. 39. A. 3. Brifl. av. ii. 16. n. 3.-Freux, Frayonne. Buffí oif. iii. ${ }_{55}$. Pl. enl. n. 484.-Schwarze Kraehe. Frifch, av. t. 64.—Roka. Faun. fuec. n. ${ }^{7}$ 7.-Rook. Brit. zool. i. n. 76. Arcl. zool. ii. 250. n. A. Albin. av. ii. t. 22. Will. orn. I23. t. 18. Lath. fyn. i. 372 . n. 4. fup. 7 6. Leewin, brit. b. i. t. 35 -

Inhabits Europe and Weftern Siberia.-This fpecies, which is about eighteen inches long, and weighs nearly twenty-two ounces, is chiefly diftinguifhed from the Carrion Crow by the following circumftances*; the ends of the tail quills are broad and rounded, inftead of being fharpifh; the bill is longer, fraighter, more flender, weaker, and not fo intenfely black; the noftrils and bafe of the bill being naked and whitifh, from being frequently thruft into the ground in fearch of food; the extent of the wings is rather more than in the Carrion Crow. The Rook flies abroad in large flocks, principally in the morning and evening, being more difperfed during the day in queft of food; vaft 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 infects, efpecially thofe of the beetle tribe, and likewife on grain, and other feeds and vegetables, hence they become deftruclive to corn, turnips, potatoes, and other crops, but there is reafon to believe that all the harm they do to farmers is amply repaid by their deftruction of noxious vermin; they are extremely clamorous and noify, efpecially about their habitations; the eggs refemble thofe of the Raven; the younger birds, called Branchers, before they are thoroughly fledged are very good eating. The black colour of the Rook is mixed with a purplifh flade, and the tail on part of its upper furface has a dull green tinge.

## 8. Hooded Crow.-7. Corvus Cornix. 5.

## Is dark afh 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. 6i. t. 4. Pl. enl. n. 754. 755.-Royfton. Crow. Alb. av. ii. t. 23. Will. orn. angl. 124. t. 77. Ruffel. alep. 69.-Hooded Crow. Britt. zool. i. n. 77. Arct. zool..ii. 25 I. B. Flor. Scot. i. 20. t. 2. Lewin, brit. b.. i. t. 36. Lath. fyn. io. 374. n. 5. fup. 77.

Inlabits Europe and Afia.-Is about the fize of the Rook, meafuring twenty-two inches in length:'This fpecies breeds in the northern parts of England and in Scotland, and migrates more to the fouthwards before winter; in Italy it breeds in the forefts near the foot of the Alps and Apennines, and. fpreads over the plains about the month of October; it is gregarious, and feeds almoft on every thing eatable, carrion, fmaller quadrupeds, birds, fhell-fifh, frogs, fnails, infects, and their larvae, and very rarely on berries, grain, and feeds; it is very unjuftly profcribed in Sweden, as it cleans the fields of vaft.

[^24]vaft multitudes of the larvae of various infects, which do infinite mifchief by lodging under the roots of grafs and other plants. It ufually fits with its face oppofed to the wind; and is very readily caught, during fnow, by means of a paper fnare : The eggs are bluifh green, variegated with a number of blackifh-brown fpots.
9. Daurian Crow.-8. Corvus dauricus. 22.

Is black, with a bluifh-black crown, the fcrag, throat, and belly, being white. Pall. it. iii. 694. n. 8.
C. dauricus. Lath. ind. orn. i. 154. n. 8. Georg. it. 16 5 .-Corneille de Senegal. Buff. oif, iii, 67. Pl. enl. n. 327.-Chinefe black Raven. Ofl. voy. i. 377.-White-breafted Crow. Tryer, trav. 2 I. Kolb. cape, ii. 146 . Lath. fyn. i. 376 . n. 6. t. 15.

Inhabits China, Mongalia, Perfia, near lake Baikal, near the Lena, the ifland 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 fhining greenifh glofs; according to Mr Latham, the nape of the neck is hoary.

Is entirely black, the throat and frag being brown. Lath. ind. orn. i. 154. n. 8. $\beta$.
This variety is frequently found among flocks of the former..

New-caledonian Crow. Lath. fyn. i. 377. n. 7.
Inhabits New-caledonia.-Is about fifteen inches long, of which the tail meafures five inches; the bill is a little more than an inch in length; the irides are yellowifh.

Is entirely black.
C. jamaicenfis. Lath. ind. orn. i. 154. n. ro.-Cornix jamaicenfis. Briff. av. ii. 22. n. 5.-Corneille de Jamaique. Buff. oif. iii. 67 .-Chattering Crow. Raj. av. 18r. Sloan, jam. ii. 298. Lath. fyn. i. 377 . n. 8.

Inhabits the mountains of Jamaica.-This fpecies, which meafures eighteen inches long, lives on berries and beetles; it is entirely black, and differs from the European Crow by its voice, which is ar perpetual chatter.

## 12. Jackdaw.-1 I. Corvus Monedula 6.

Is blackifh-brown, with a hoary hind head; the front, wings, and tail, being black. Scop. an. $3^{66}$ n. $3^{88}$.
C. Monedula. Lati. ind. orn. i. 154. n. If.-Cornix garrula. Klein, av. 59. n. 4. Id. ftem. ro,
t. i1. f. 2. a. b.-Graculus, Monedula. Gefn. av. ̧े20. t. P. 521:-Monedula, Lupus. Aldr. orn. i. 770. t. p. 77 I. Raj. av. 40. A. 5. Briff. av. ii. 24. n. 6. Gunth. neft. t. if. 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. 25 1. c. Alb. av. i.t. 14. Will. orn. 125.t. 19. Lath. fyn. i. 378 . n. 9. fup. 78.

Inhabits Europe and weftern Siberia.-Is thirteen inches in length; the irides are white.

Has a white collar round the neck. Lath. ind. orn. i. i55. n. ir. . . Syn. 379. n. 9. A.
Monedula torquata. Brifl. av. ii. 27. n. 6. a.-Helvetian Daw. Charlet, ex. 75. n. 7. onom. 68. n. 7. Jonft. av. t. 16.

Inhabits Switzerland.

Is entirely white, with a yellowifh bill. Lath. ind. orn. i. 155.n. if. $\gamma$. Syn. i. 379. n. g. b.
Monedula candida. Briff. av. ii. 27. n. 6. в. Schewenkf. av. filef. 305 . Rzacz. auct. pol. 396. Inlabits Poland and Silefia.

## ภ. Black Jackdaw.-I I. d. C. Monedula nigra.

Is bright black, the eyes being furrounded with white dots. Lath. ind. orn. i. 155 n. ir. $\delta$. 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. 1. 3. p. 15.-Schwarze Dohle. Frifch, av. t. 68.

Inhabits Scotland, and other parts of Europe.
ع. Red-billed Jackdaw.-ı I. є. C. Monedula erythrorbynchos.
Is full black; with red bill, legs, and feet. Lath. ind. orn. i. $155 \%$ n. r. f.
Monedula nigerrima. S. G. Gmel. it. iii. 365. t. 39 .
Inhabits Perfia.
گ. White-winged Jackdaw.-ıi. Ч. C. Monedula leucopterus.
The wings are white, and the bill is fomewhat bent.
n. Hoary-headed Jackdaw.-C. Monedula leucoce, balus.

Is entirely black, with the hind head hoary. Phil. tranf. lvii. 347. Lath. ind. orn. i. I 56. n. II. $\zeta$.

Inhabits near the Wolga, where it is plentiful in the woods.

- Brownih Jackdaw. - in. Q. C. Monedula fufcefcens.

Is brownifh, with white fhoulders.
Befides thefe 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 circumftance feems accidental, it is not enumerated in the foregoing lift. Jackdaws are eafily tamed, and may be taught to fpeak; in their natural ftate they are gregarious and loquacious, feeding on infects, grain, and feeds; they breed in fteeples, old caftles, and high rocks, fometimes in hollow trees near rookeries, and fometimes even in rabbit holes; the female lays five or fix eggs, which are paler, fmaller, and lefs fpotted than thofe of the Hooded Crow.
13. Jay.—12. Corvus glandarius. 7.

The wing coverts are blue, with tranfverfe white and black lines; the body is pale rufty purple dafhed with grey, and the head is crefted.
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. i. 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. 48 1.-Allonfkrika, Kornfkrik. Faun. fuec. n. go.-Holzfchreyer, Eichenheher, Nufsheher. Frifch, av. t. 55 . Kram. el. 335. Gunth. neft. 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. fyn. i. $3^{84}$. n. 19. fup. 79.

Inhabits Europe, and Siberia as far as the Uralian mountains.-Is thirteen inches long, and weighs fix or feven ounces; the bill is frong, thick, and black, meafuring 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 fpot; the fore-head is white with black ftreaks; the feathers of the head are very long and can be erected into a creft; the firft quill feather of the wing is black, the next nine are afh coloured, their inner webs being dufky, the next fix are black, the lower furfaces of their outer webs being tinged with blue, the next two are black, and the innermoft is bay tipt with black; the leffer coverts are light bay, the greater coverts are blue barred with white and black, the fcapulars are black; the rump is white; the tail has twelve black quills; the legs and feet are pale brown, with large hooked claws: The neft is built on low bufhes, being formed of fine fibres of tree roots; in it the female lays five or fix dull whitifh olive coloured eggs, obfcurely mottled with pale brown. The voice is loud and difagreeable; when inticing the young to follow, it refembles the mewing of a cat. Jays are very docile, and may be taught to fpeak: In fummer they are very deftructive to cherries and peafe, and in autumn and winter they feed on acorns; fome fay they likewife kill and dcvour fmall birds.

Is black, with the breaft blue, and the eyes filvery white ; the tail being white at the tip, and the bill, legs, and feet, black. Jacquin, beyt. der voeg. I.
Inhabits Carthagena in South America.-This fpecies is about the fize of the Jay; it lives in the thickeft parts of the woods, having a clear and not unpleafant whiffling voice; it feeds on infects, fruits, and feeds, and when tamed will eat flefh both raw and boiled. The outer parts of the wings are blue, and the face has a blue fpot over each eye and another beneath. Mr Latham unites this and the Surinam Crow together as fynonimous, notwithftanding the very great diffimilarity in their defcriptions as given by Dr Gmelin.

## 15. Doubtful Crow.-14. Corvius dubius. 26.

Is rufty brown, the crown and temples being blackifh; the neck and belly are yellowifh, and the bill, eyes, legs, and feet, black. Jacquin, beytr. der voeg. 2.

Inhabits Carthagena in America.-A white line, rifing from the bafe of the bill, pafies backwards through the orbits to the hind head where it joins a fimilar line from the other fide of the head.

## 16. Crefted Crow.- 15. Corvus criftatus. 8.

Is blue; the wing coverts being tranfverfely ftreaked with black, the neck having a white collar, and the head a blue creft. Lath. ind. orn. i. 158. n. ig.
Garrulus canadenfis caeruleus. Briff. av. ii. 54. n. 2. t. 4. f. 2.-Pica glandaria caerulea. Klein, av. 6I. n. 3. Robert. ic. 1676. t. 14.-Geay bleu de Canada. Buff. oif. iii. i20. Pl. enl. n. 529.Haubenlaher. Borowik. nat. ii. ro2. t. 9. A.-Blue Jay. Arct. zool. ii. 249. n. 138. Catefb. carol. i. t. 15 . Edw. glean. t. 239. f. i. Lath. fyn. i. $3^{866}$ n. 20.

Inhabits North America.-This fpecies refembles the Jay, but is much fmaller, meafuring only eleven inches long; it is gregarious, and its voice is not harf ; it feeds on chefnuts, fruits, berries, feeds, and grain, being very deftructive to the fields of Maize, and, when in great neceflity, devours worms and fmall ferpents; it builds in marfhy places, the female laying five or fix dull olive eggs fpotted with rufty, in May. The head is furmounted by a blue creft; a black ftreak paffes on each fide from the bafe of the bill beyond the eyes; the cheeks, chin, and belly, are white ; the breaft is pale reddifh, like port wine and water; the back is pale purple; the wing coverts and fecondary wing quills are rich blue barred with black, the fecondaries 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 crefted; 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. $3^{37} \%$ n. 21.
Inhabits the north-weft coaft of America.-Is about the fize of the Jay, meafuring fifteen inches
long: The bill, neck, and back are black; the lefier wing coorts are dufky, the reft being rich fplendid blue; the outer webs of the primary wing quills are rich blue, the inner webs being dulky; the fecondaries are rich blue croffed with diftant narrow black bars; the rump, belly, and breaft, are dull blue; the tail is very long, wedge-like, and of a fine gloffy blue colour, the middle quills being flightly barred with black.

## 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 cayanenfis. Brif. av. ii. 52. n. 2. t. 4. f. 1.-Geay de Cayenne, Blanche-coëffée. Buff. oif. iii. ir8. 11. enl. n. 373.-Cayenne Jay. Lath. fyn. i. 388. 1. 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 fpots; the tail is rounded and has a violet tinge.

## 19. White-eared Crow.-Corvus auritus.

Is brown afh, and fomewhat crefted; the frontlet and chin are black; the front and each ear are marked with a white fpot; 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 iong: The bill is black, and fcarcely bent; the irides are reddifh yellow; the crown is bluifh afh, laving its feathers longifh; the tail is long, rounded, and fomewhat flouching; the legs are long and brownifh, the back claw being very ftrong and much bent.

Is reddifh, the under parts being yellow, the head purplifh, and the wing and tail quills black. Lath. fyn. fup. 83 .
C. purpurafens. Lath. ind. orn. i. 16 1. n. 26 .-

Inhabits China.-The bill is lead coloured, the legs and feet being carnation ; the tail is long.

## 21. Macao Crow.-Corvus macaenfis.

Is greyifh afh; the back, wing coverts, and ventlet, being red; the forehead, wing. quills, and tail, are black; the fecondary wing quills having each two white fpots.
C. finenfis. Lath. ind. orn. i. 161. n. 27 .-Pie de Macao. Sonner. voy. ii. 187.-Macao Crow. Lath. fyn. fup. 84.

Inhabits the ifland of Macao in China.-Is about a third fmaller than the Magpie: The irides are yellowifl.

VoL. I.

## 22. Rufous Crow.-Corvus ruflus.

Is red, the under parts being reddifh 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. r86. t. ro6.
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.

Is rufty brown, with fmall triangular white fpots, the wings and tail being black; the tail quills have white tips, thofe 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. $\sigma_{3} 0$ - -Nucifraga. Brif: av. ii. 59. n. i. t. I. f. I.-Caffe-noix. Buff. oif. iii. i22. t. g. Pl. enl. n. 50-Waldfarl, Steinheher. Kram. el. 334--Tannenheher. Frifch, av. t. ${ }^{66}$ - Nufkraehe. Schranck. nat. xviii. 67.-Nufs-haeher. Gunth. neft. t. 38.-Allonfkrika, Kornfkrika. Faun. fuec. n. go.-Nutcracker. Brit. zool. i.. app. 62 g. t. 3. Arct. zool. 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 Kamtfchatka.-This fpecies, which is very rarely found in Britain, chiefly inhabits pine forefts; it feeds on infects, berries, feeds, nuts, acorns, and particularly the kernels of the pine cones; it builds in the hollows of trees, and refembles the Magpie in its manners, being thirteen inches long. The crown of the head and the tail coverts are rufty brown, like the body, but without any white fpots; the ventlet is white ; the feathers ufually found on the noftrils of the fpecies of this genus are frequently wanting in this fpecies; the tongue is double pointed.

## 24. Philippine Crow.-19. Corvus Balicaffus. 11.

Is greenifh black, with a forked tail. Lath. ind. orn. i. 156. n. I3.
C. nigro-viridens. Briff. av. ii. $3^{\text {r. n. 9. t. 2. f. I. }-M o n e d u l a ~ p h i l i p p e n f i s . ~ G e r . ~ o r n . ~ i i . ~} 40$. t. 154.-Choúcas des philippines. Buff. oif. iii. 83.-Balicaffe des philippines. Pl. enl. n. 603.-Philippine Crow. Lath. fyn. i. 38 r.

Inhabits the Thilippine iflands, India, and at the Cape of Good Hope.-Is about the fize of the Thrufh, and the tail is near four inches long; it fings exccedingly well: The bill, legs, feet, and claws, are black. A varicty of this fpecies is fometimes found having the breaft clouded with white, and the belly grey.

Is dufky afh, the frontiet, forehead, and tail, being black; the hinder part of the back, the rump, belly, ventlet, and thighs, are white, tranfverfely fireaked with black.
C. novae-guineae. Lath. ind. orn. i. 156. n. 14.-Choucas de la nouvelle Guinée. Buff. oif. iii. \{0. P1. enl. n1. 629 .-New-guinea Crow. Lath. fyn. i. $3^{81}$ r. n. I3.

Inhabits New-guinea.-Is about the fize of the Jackdaw, meafuring twelve inches in length; the bill is blackifh; the fides of the head have each a black flroke or bar acrofs the orbits, and another behind the eyes; the wings are blackifh, the feathers being edged with white; the legs and feet are fhort and dufky.

## B. Blue-headed New-guinea Crow.-C. novae-guineae caerulefcens.

Is afh coloured, the head and neck being bluifh; the breaft and belly are pale rulty.
Lath. ind. orn. i. $1_{5}$ б. n. 14. $\beta$. Syn. fup. 78.
Inhabits with the former.-Is rather larger, meafuring thirteen inches in length: The bill is black; the frontlet is black; the face on each fide has a black bar acrofs the orbits; the irides are reddifh; the legs and feet are reddifh brown, and extremely wrinkly.

## 26. Papuan Crow.-2 1. Corvus papucn/is. 29.

Is grey afh, with a white belly, the wing quills being blackifh 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. 38 I. 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 afh coloured, with fhort claws.

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. 6og.-Bare-necked Crow. Lath. fyn. i. 382. n. 15.
Inhabits Cayenne.-Is about the fize of a Jackdaw : The bill is yellowifh, tipt with black, its bafe being broàd and dirty blue, with pervious noftrils; fome of the outer wing quills are flightly greyifh; the legs and feet are yellow ; the tail is equal at the end.

## 28. Bald Crow.-23. Corvus calvus. 31.

Is rufty brown, the front and crown being bald. Lath. ind. orn. i. i53. 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 com lour 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.
29. Pacific Crow.-24. Corvus pacificus. 32.

Is afh coloured, the under parts being bay or reddifh; the hind head, fcrag, wings, and tail, are black, the two laft being tipt with white.
C. pacificus. Lath. ind. orn. i. 157. 11. 16.-Pacific Crow. Lath. fyn. i. 383 . n. 17.

Inhabits the illands in the Pacific ocean.-Is ten inches and a half long; the bill, legs, feet, and clatrs, are black; the front and chin are paler than the reft of the body; the two middle tail quills are entirely black.
30. Tropic Crow.-25. Corvus tropicus. 33.

Is fhining black, with a rounded tail, the ventlet and fides of the belly being fpotted with white. Lath. ind. orn. i. 157 . n. 17.
Tropic Raven. Cook's laft voy. iii. ing?-Tropic Crow. Lath. fyn. i. $3^{8} 4$. n. is.
Inhab:ts Owhyhee, one of the Sandwich iflands.-Is twelve inches and a half long; the bill is broad ta the bafe, and meafures an inch and a half in length; the black of the upper parts of the body is very fplendid, on the wings and tail it has a greenifh caft, and the lower parts of the body are duil black; the legs, feet, and claws, are black.

Is brown, with a violet tinge above, and whitif underneath; the front, under part of the throat and breaft, being black; the tail is wedge-like, having a violet tinge at the bafe, its middle black, and tip white. Lath. ind. orn. i. 161. n. 29.
Geay à bec rouge. Buff. oif. iii. 115 . Pl. enl. 622.-Ked-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 frrag 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 whitifh, with black tips.

Is reddifh above, with a brown crown, and white eyebrows; the tail is brown and wedge-like, with a narrow tranfverfe black band near the tip, and having a roundifh dirty white fpot near the tip of each quill.

Chinefe Jay. Lath. fyn. i. 390 . n. 25 .
Inhabits China.-Refembles the Jay both in fize and general manners: The bill is lead coloured, as are the lefs and feet; the face has a black line croffing the orbits; the temples are each marked with a fpot of mixed white and bluifl furrounded by a black circle; the chin is white; the fecondary ming quills are brown.

Is afh coloured above and ruty crange underneath, the wing quilis and two middle tail quilis being afh coloured, and the reft of the tail quills orange. Lath. ind. orn. i. 159. n. 22. 乃.

Geay de fiberie. Buff. off. iif. 118. Pl. enl. n. 6c8.-Siberian Jay. Lath. fyn. i. 39 I. n. 26.
Inhabits

Inhabits Siberia.-Is ten inches long: The bill is dufly; the front, chin, and throat, are pale afl; the crown is brownifh black, and is fomewhat crefted; the rump is rufty orange coloured; the legs and feet are afh coloured. Mr Latham confiders this fpecies as a variety of the Rock Shrike, No. $3^{2.4}$. which he places among the Crows, in his Index Ornithologicus.

## 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. i61. n. 30.--Geay de Perou. Buff. oif. iii. II6. 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 fcet, are blackifh; the bafe of the bill is furrounded by a blue line; the whole under part of the throat is filky and perfectly black; the tail is very long and wedge-like.

Is greenifh brown above and yellow underneath; the chin and eyebrows being white, and the wings and tail reddihn brown.
C. flavigafter. Lath. ind. orn. i. 162. n. $3^{\text {r.-Garlu, Geay à ventre jaune. Buff. oif. iii. irg. }}$ Pl. enl. n. 249-Yellow-bellied Jay. Lath. fyn. 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 ftreak; the legs and feet are fhort, flender, and leaden coloured, or blackiflı.

Is afh coloured, with a fhining 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 Ruffia.-This fpecies is about the fize of the Rock Sbrike, No. 324 . and refembles the Magpie in manners and general appearance ; it is clamorous, flyy, and cunning; it builds in fhrubs and willows; it migrates in flocks 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 blacknefs 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.

Has a long wedge-like tail, and is varied with black and white. Scop. an. i. $3^{8 .}$ n. 4 r.
C. Pica. Latl, ind. orn. i. 162. n. 32. Ger. orn. ii. 40. t. 155 . Borowfl. nat. ii. Iog. n. io. Schaef. cl. t. 56 .-Pica. Nozem. neder. vog. t. 2.-Pica varia, Pica caudata. Gefn. av. 695 . Aldr. orn. i. 784 . t. p. $7_{85}$. Johnft. av. 44. t. 17. Brif. av. ii. 35. n. 1.-Dica rufticorum. Klein, av. 60.
. I. Id. flem. 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. zool. i. 225. n. 78. D ${ }^{\circ}$. ill. 77. t. D. f. 2. Arct. zool. 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 Afia, 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, reftlefs, noify, quarrelfome, and fhy, but may be tamed, and learns to imitate the human voice; it frequents towers, villages, and fields; Dr Gmelin fays that it diflikes the woods, but in this he has certainly been mifinformed, as it is very common in the woods of Britain, and builds in trees, covering the neft very artificially with thorns, leaving a narrow entrance; it feeds almoft on any kind of vegetable or animal fubftance, is very deftructive to gardens and orchards, and even deftroys chickens : The black colour of the body and tail is moft beautifully gloffed with green and purple: The eggs are brownifh-green, thickly interfperfed with black or dufky fots.

## B. Sooty Magpie.-C. Pica fuliginofa.

Is varied with footy-black and white, having red eyes. Muf. carlf. iii. t. 53 . Lath. ind. orn. i. 163 . n. 32 . $\delta$.

This variety was found, in $7_{781}$, in the parifh of Padasjoki, in the province of Tavaftland in Sweden : The bill, legs, and feet, are black.

## \%. Streaked Magpie.-C. Pica friata.

Is longitudinally ftreaked on the body with black and white. Lath. ind. orn. i. 163.n. $3^{2-}$ $\gamma$.
This variety is preferved in the Leverian Mufeum.

## d. White Magpie.-33. B. C. Pica candida.

Is entirely white. Lath. ind. orn. i. 162. n. 32 . e.
Pica candida. Briff. av. ii. 39. n. I. A.t. 3.f. I.
We are not informed where this variety was found, but it is probable that both it and the two former are merely accidental.-T.

## 38. Senegal Crow.-34. Corvus fenegalenfis. 14.

Is black with a violet glofs, 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, meafuring fourteen inches. long: The under parts of the body are dirty black; the bill, legs, and feet, are black; the black
edges of the wing and tail quills have the fame purple glofs that enlivens the plumage of the head, neck, and back.

## 39. Caribean Crow.-35. Corvus caribaeus. 40.

Is rufty above and white underneath, the neck being blue with a white collar. Lath. ind. orn. i. 163. n. 35 .

Pica antillarum. Raj. av. i52.-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. ıor.-Perfian Pie. Will. orn. angl. 1 32. n. 6. § 2.-Caribbean Crow. Lath. fyn. i. 395 . n. $32 .^{2}$

Inhabits the Weft India iflands.-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 fcrag; this in males is tranfverfely ftreaked with black; the rump and upper tail coverts are yellow ; the tail is wedge-like, of a blue colour, and ftreaked with white; the wing quills are greenifh blue; the leffer coverts are chefnut, the middle coverts green, and the greater coverts blue, with whitifh fhafts and edges: In the fimale the white line on the head has no black ftreaks, and the greater wing coverts are green, with white fhafts and edges.
40. African Crow.-36. Corvus africanus. 41.

Is brown above and fomewhat afh coloured underneath, the head and neck being purple, and the tail wedge-like, with a white tip. Lath. ind. orn. i. $1 \sigma_{3}$. 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.
41. Mexican Crow.-37. Corvus mexicanus. 42.

Is entirely bluifh 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-fpain.-This fpecies, which is about the fize of a Jackdaw, lives near the towns, and is very reflefs and perpetually chattering; the bill, legs, feet, and claws, are black.

Is fhining green, with a blue hind head, having a pale green fpot on the fcrag and two others on each fide of the head, one above and the other below the orbit.
C. argyrophthalmus. Lath. ind. orn. i. 164. n. 38.-Surinam Daw. Brown, illuftr. t. ro.-Surinam Crow. Lath. fyn. i. 397. n. 35. fyn. 8 1.

Inhabits Surinam.-Is as large as the Carrion Crow: The green colour of the body is deep, fhining, and changeable; the primary wing quills are dufky, with blue tips; the tail is duiky; the bill is blackifh or dufky; the legs and feet are carnation red. Mr Lathan conjoins this with the Carthagena Crow, $\mathbf{N}^{\circ}$. 619 . which feems to differ very effentially ; he adds that it is eafily tamed, and has a monotonous voice.

Is blackih, the head and neck being brownih, and the tail very long. Lath. ind. orn. i. 164. n. 37.

Pica mexicana minor. Briff. av. ii. 44. n. 5.-Tzanahoei. Raj. av. ı62.-Zanoe. Buff. oif. iii. 106.-Leffer mexican Crow. Lath. fyn. i. 397. n. $3^{6 .}$

Inhabits New-fpain.-This fpecies refembles the Magpic in fize, manners, cunning, chattering, and docility : The bill, legs, and feet, are black.

## 44. Short-tailed Crow.-40. Corvus brachyurus. 15.

Is green above and tawny underneath, the head being marked with alternate brownifh orange and white bars; the tail is extremely fhort. Lath. ind. orn. i. 166. n. 43.
Merula viridis moluccenfis. Briff. av. ii. 316. n. 56. t. 32. f. 1.-Pica indica vulgaris. Raj. av. 395. t. I. f. io.-Breve de Bengale. Buff. oif. iii. 414.—Merle de Bengale. Pl. enl. n. 258 .-Short-tailed Crow. Lath. fyn. i. 399. n. 37.

Inhabits the iflands of the Indian ocean.-Is only fix or feven inches long: The bill is greyifh brown; the head is black with alternate freaks of white and tawny or brownifl-orange, the corners of the mouth being orange coloured, and the irides whitifh; the chin, wing quills, and tail are black, the latter being tipt with green ; the legs and feet are orange, with dirty red claws.
ß. Philippine Short-tailed Crow.-40. B. C. brachyurus philippenfis.
Is green, the head and neck being black, the rump and wing coverts bluifh green, and the tail black, with rofe coloured under coverts. Lath. ind. orn. i. i66. n. $43 . \beta$.
Merula viridis atricapilla. Briff. av. ii. 319. n. 57. t. 32. f. 2.-Breve des Philippines. Buff, oif. iii. 41 13. n. I. - Merle des Philippines. Pl. enl. n. 89.

Inhabits with the former.

## 2. Bengal Short-tailed Crow.-40. \%. C. brachyurus bengalenfis.

Is green above and yellowifh underneath; the head and neck being black, ftreaked with white and orange, and the wing and tail quills black. Lath. ind. orn. i. 167. n. $43 . \%$.
Coturnix capenfis. Klein, av. i15. n. 2.-Breve. Buff. oif. iii. 413. n. 2.-Madras Jay. Raj. fyn. 195.n. i2. t. i. f. ro.-Bengal Quail. Alb. av. i. t. 3 I.-Short-tailed Pie. Edw. glean. t. 324. Lath. fyn. i. 399. n. 37. E.

Inhabits India.-The wing quills, in this variety, are white at the bafe and yellow at the tips, and the tail quills have green tips.
8. Madagafcar Short-tailed Crow.-40. ס. C. brachyurus madagafcarionfis.

Is green above and yellowifh underneath; the head being blackifh brown, and the nape yellowifh. Lath. ind. orn. i. 167. n. 43. \%.
(
fick
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[^0]:    * Dr Gmelin fays more than four luftres; the twelfth, or laft Linnaean edition of the Syftema Naturae was publifhed in 1766, and that of Gmelin in 1788, making ani interval of twenty-two years.

[^1]:    * The Siren lacertina of the Linnaean, and Mirena Siren of the prefent edition: This animal, which lives in muddy places and feeds on ferpents, was lately defribed by Ellis in the Philofophical Tranfactions, Vol. lvi. I8g.

[^2]:    - Seneca, vii. 27.
    $\dagger$ Pfalms.

[^3]:    * Cacialpinus.

[^4]:    * The name of this order may be tranflated Chiefs, as being the principal animals, becaufe it contains Man, and thofe animals which refemble him, efpecially in the circumftances of the teeth and mammae, or teats.-T.
    + This noted faying of Solon is the firft flep towards the attainment of true wifdom, and was formerly written, in letters of gold, on the temple of Diana.
    $\ddagger$ Thefe inflances of wild men, and their fimilitudes, are partly to be attribnted to impofture, and in part to exaggeration. Mof probably idiots who had ftrayed from their friends, and who refembled the above an mals only in imitating their voices.-T.

[^5]:    * By length is meant the meafure from the tip of the wofe to the remp; and by catent the meafure between the extremities of the wings when ftretched out,-T?

[^6]:    * The Iron-pigs, and Sheild-hogs, of fome writers.-T.

[^7]:    *See Hakluyt's Voyage, i. 5.\% and Forfer's Account of Voyag the North.-T.

[^8]:    * Vide note to the Palm Squirrel. - ${ }^{1}$.

[^9]:    Penis fcatens offe curvato.

[^10]:    * Penis ofe incurvato Catet.

[^11]:    Vol. I.

[^12]:    * Probably a kind of Bezoar.-T.

[^13]:    * Called Mures buccati, in the SyRema Naturac,

[^14]:    * This variety is probably the animal mentioned by Buffon, viii. 348. under the name of Kamt. fhathan Marmot, which refembles at a diftance the variegated plumage of a beautiful bird; ufes its fore feet in eating, and feeds on roots, berries, and a kind of nut, called Cedar-nuts.-T.

[^15]:    * Linnaeus mentions one folitary objection to this rule, having feen the flull of a Roe which had both horns and tuiks.

[^16]:    Vol. I.

[^17]:    * Mari penis longus, tenuis, retroffexus, fub finem aeftatis coit fere furens; foeminae vulva angufta.

[^18]:    * The Mufk animal was firf mentioned by Cofmas in the fixth century:

[^19]:    * From not being thoroughly acquainted with the Englifh language, Dr Gmelin applies the hairy covering of the boney procefs, as defcribed by Mr Pennant, to the horns themfelves, and fays that they are covered with hair, -T ,

[^20]:    * The word annulated is employed in the definition, for Chortnefs, to fignify that the horns are furrounded by prominent rings. $-T$.

[^21]:    Linnaeus; but this part of the introduction is altered by Gmelin.-T.

[^22]:    WoL. . Io.

[^23]:    * The three fets of numerals emplojed in this edition, to the genera of birds, are to be thus underftood: The numerals prefixed to the Englifh name of each •genus marks its order in the clafs of birds of this edition: The numeral prefixed to the Latin name of the genus flews the order of arrangement followed in Dr Gmelin's edition of thc Syfema 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 fame time a numeral precedes the Latin name, the genus has been added by Dr Gmelin.-T.
    + It may be neceffary to remark, that the apparent confufion of the running numbers of the ge-

[^24]:    * Thefe are firf attentively noticed by the celebrated Mr Pennant in his Arctic Zoology.-T.

