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THE VOYAGE OF H.M.S. BEAGLE,

1832 to 1836.

THE LORDS COMMISSIONERS OF HER MAJESTY'S TREASURY.

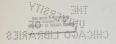
Ebiteb and Buperintenbeb bp CHARLES DARWIN, ESQ. M.A. F.R.S. SEC. G.S. NATURALIST TO THE EXPEDITION.

PART III.

BIRDS.

JOHN GOULD, ESQ. F.L.S.

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P. O.S. Dr.

BIRDS,

Described by

JOHN GOULD, ESQ. F.L.S.

WIII

A NOTICE OF THEIR HABITS AND RANGES,

BY CHARLES DARWIN, Eng. M.A. F.R.S. SEC. GROUDS. Sec.

AND WITH AN ANATOMICAL APPENDIX, BY T. C. EYTON, ESQ. F.L.S.

ILLUSTRATED BY NUMEROUS COLOURED ENGRAVINGS.



CORRIGENDA.

I am indebted to Mr. G. R. Gray for the following remarks and corrections :-

Pago 13, to Milvago ocrocophalus, Spix. add Polyborus ocrocophalus, Jard. & Selliy's Ili. t. 5. Alter 7, 8, 9, & 10, to 5, 6, 7, & 0.

Page 15, Milvago leucurus, add Falco Australis, Jerd. & Selly's III. Orn. n. pl. 24.

Page 49, Sergophaga, Goald, is probably synonymous with Esscarthaus, Pr. Max.

Page 54, Agricuits, Goald, is synonymous with Dasycephala of Swainson, and Tammolanius, of Lesson; the species therefore should be

sp. 1. D. lividus, G. R. Gray.
Thannophibus lividus, Kittl. Voy. de Ch
Tyrannus gutturalis, Epd. & Gerr. &c

sp. 2. D. striata, G. R. Gray.

Agr. striatus, Gould.

Agr. micropterus, juv. Gould, sp. 3.

Page 57, sp. 4. D. maritima, G. R. Gray.

Agr. maritimas, G. R. Gray, &c.

Agr. maritimus, G.R. Grop, &c.

Page 68. The generic appellation of Openiorlynchus, was
adopted after the subjection of Mr. Goodd; since
its publication, however, I have consoldered that
it might cause confusion with Fernarius, of Visillot,
as it is Tennische's name for the identical sub-

that ground induced to change and propose name of Cinchodes, which has been adopted b Continental writer. The species should be alte thus:—

Page 65, Sp. 1. Cinclodes vulgaris, G. R. Gray.
Page 67, sp. 2. C. Patagemicus, G. R. Gray, List of the
Generar of Burk.
sp. 3. C. saturcticus, G. R. Gray,
Cinclodes Inlightenum, Lens.

Page 68, sp. 4. C. nigrofumenus, G.R. Gray.
Page 69, Eremolius, being previously employed, it is changed to Exheunicarus, G. R. Gray. The species to Ex. pharmicarus, G. R. Gray, List of the Genera of Birds.

ef Birds.
Page 70, Rhinonya, being also previously employed; it is therefore changed to Rhinocrypta, G. R. Gray.
The species to

Page 76, for Symillaxis major, Gweld, read Austrahius acuticaudatus, G. R. Grey. Furnarius annumbi, Virell. L'Annumbi, Azera, No. 222. Anthun acuticomolatus, Less. Is Lefe.

Anumbius anthoides, D'Orb. & Lefr.

Page \$4, Fringilla fruticeti, Kittl. gives place to
Fringilla crythrochyncha, Less. Voy. Thetis. ii. p. 324.



LIST OF PLATES.

Plate I.	Milvago albogularis.	Plate XXV.	Limnornis curvirostris.
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III.	Otus Galapagornsis.	XXVII.	Dendrodamus leucosternus.
IV.	Strix punctatissima.	XXVIII.	Sylvicola auroola.
v.	Progne modestus.	XXIX.	Ammodramus longicaudatus
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VII.	ranus.	aaa.	Ammodramus xanthornus.
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XVII.		XL.	Camarhynchus psittaculus.
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VIV	Uppucerthia dumetoria, in place of Upercerthia dumetaria.	XLII.	Cactornis scandens.
ALA	Upercerthia dumetaria.		———assimilis.
	Opetiorhynchus nigrofumosus,	XLIV.	Certhidea olivacea.
XX	Opetiorhynchus nigrofamosus, in place of	XLV.	Xanthorous flaviceps.
	Opetiorhynchus lanceolatus.	XLVI.	Zenaida Galapagoensis.
XXI.	Eremobius phœnieurus.		Rhea Darwinii.
XXII	Anumbius acuticandatus, in place of Synallaxis major.		Zapornia notata.
	Synallaxis major.		- spilonota.
THEFT	Samallavia poformlaria	T.	Amer melanonterna

ADVERTISEMENT.

WHEN I presented my collection of Birds to the Zoological Society, Mr. Gould kindly undertook to furnish me with descriptions of the new species and names of those already known. This he has performed, but owing to the hurry, consequent on his departure for Australia, -an expedition from which the science of Ornithology will derive such great advantages, - he was compelled to leave some part of his manuscript so far incomplete, that without the possibility of personal communication with him, I was left in doubt on some essential points. Mr. George Robert Grav, the ornithological assistant in the Zoological department of the British Museum, has in the most obliging manner undertaken to obviate this difficulty, by furnishing me with information with respect to some parts of the general arrangement, and likewise on that most intricate subject,the knowledge of what species have already been described, and the use of proper generic terms. I shall endeavour in every part of the text to refer to Mr. G. R. Gray's assistance, where I have used it. As some of Mr. Gould's descriptions appeared to me brief, I have enlarged them, but have always endeavoured to retain his specific character; so that, by this means, I trust I shall not throw any obscurity on what he considers the essential character in each case; but at the same time, I hope, that these additional remarks may render the work more complete.

The accompanying illustrations, which are fifty in number, were taken from sketches made by Mr. Gould himself, and executed on stone by Mrs. Gould, with that admirable success, which has attended all her works. They are all of the natural size with the exception of four raptorial birds, a goose and a species of Rhea. As the dimensions of these latter birds are given, their proportional reduction will readily be seen. I had originally intended to have added the initial letter of my name to the account of the habits and ranges, and that of Mr. Gould's to the description of the genera and species; but as it may be known that he is responsible for the latter, and myself for the former, this appeared to me useless; and I have, therefore, thought it better to incorporate all general remarks in my own name, stating on every occasion my authority, so that wherever the personal pronoun is used it refers to myself. Finally, I must remark, that after the excellent dissertation, now in the course of publication, on the habits and distribution of the birds of South America by M. Alcide D'Orbigny, in which he has combined his own extended observations with those of Azara, my endeavour to add anything to our information on this subject, may at first be thought superfluous. But as during the Beagle's voyage, I visited some portions of America south of the range of M. D'Orbigny's travels, I shall relate in order the few facts, which I have been enabled to collect together; and these, if not new, may at least tend to confirm former accounts. I have, however, thought myself obliged to omit some parts, which otherwise I should have given; and, after having read the published portion of M. D'Orbigny's great work, I have corrected some errors, into which I had fallen. I have not, however, altered any thing simply because it differs from what that gentleman may have written; but only where I have been convinced that my means of observation were inferior to his.

BIRDS.

FAMILY-VULTURIDÆ.

SARCORAMPHUS GRYPHUS, Bonan,

Vultur gryphus, Lius.

—, Humb. Zoolog. p. 31.
Sarcoramphus Condor, U'Orbigus, Voy. Ois.
Condor of the inhabitants of South America.

THE Condor is known to have a wide range, being found on the west coast of South America, from the Strait of Magellan, throughout the range of the Cordillera, as far, according to M. D'Orbigny, as 8° north latitude. On the Patagonian shore, the steep cliff near the mouth of the Rio Negro, in latitude 41°, was the most northern point where I ever saw these birds, or heard of their existence; and they have there wandered about four hundred miles from the great central line of their habitation in the Andes. Further south, among the bold precipices which form the head of Port Desire, they are not uncommon; yet only a few stragglers occasionally visit the sea-coast. A line of cliff near the mouth of the Santa Cruz is frequented by these birds, and about eighty miles up the river, where the sides of the valley were formed by steep basaltic precipices, the Condor again appeared, although in the intermediate space not one had been seen. From these and similar facts, I believe that the presence of this bird is chiefly determined by the occurrence of perpendicular cliffs. In Patagonia the Condors, either by pairs or many together, both sleep and breed on the same overhanging ledges. In Chile, however, during the greater part of the year, they haunt the lower country, near the shores of the Pacific, and at night several roost in one tree; but in the early part of summer they retire to the most inaccessible parts of the inner Cordillera, there to breed in peace.

With respect to their propagation, I was told by the country people in Chile, that the Condor makes no sort of nest, but in the months of November and December, lays two large white eggs on a shelf of bare rock. Certainly, on the Patagonian coast, I could not see any sort of nest among the cliffs, where the young ones were standing. I was told that the young Condors could not fly for a whole year, but this probably was a mistake, since M. D'Orbigny says they take to the wing in about a month and a half after being hatched. On the fifth of March (corresponding to our September), I saw a young bird at Concepcion, which, though in size only little inferior to a full-grown one, was completely covered by down, like that of a gosling, but of a blackish colour, I can, however, scarcely believe that this bird could have used, for some months subsequently, its wines for flight. After the period when the young Condor can fly, apparently as well as the old birds, they yet remain (as I observed in Patagonia) both roosting at night on the same ledge, and hunting by day with their parents; but before the young bird has the ruff round its neck white, it may often be seen hunting by itself. At the mouth of the Santa Cruz, during part of April and May, a pair of old birds might be seen every day. either perched on a certain ledge, or sailing about in company with a single young one, which latter, though full fledged, had not its ruff white.

The Condors generally live by pairs; but among the basaltic cilfús of the plains, high up the river Santa Cruz, I found a spot where scores must usually haunt. They were not shy; and on coming suddenly to the brow of the precipies, it was a fine sight to see between twenty and thirty of these great's brids start heavily from their resting place, and wheel away in majestic circles. From the large quantity of dang on the rocks, they must have long frequented this cilif; and probably they both roost and breed there. Having gorged themselves with carrine on the plains below, they retire to these favourite ledges to digest their food in quietness. From these facts, the Condor must, to a certain degree considered, like the Gallianso (Ladherts atracts), a gregations bird. In this part of the country they live almost entirely on the guanteese, which cither have deed as a train definition when the sure in Patagonia, that they do not, on ordinary occasions, extend their daily excursions to any great distance from their regular sheeping balaxes.

The condors may oftentimes be seen at a great height, soaring over a certain spot in the most graceful spires and circles. On some occasions I am sure that they do this for their sport; but on others, the Chileno countryman tells you, that they are watching a dying animal, or the puma devouring its prey. If the condors

^{*} I measured a specimen, which I killed there: it was from tip to tip of wing, eight and a half feet; and from end of beak to end of tail four feet.

Proposition of the Parket of t

glide down, and then suddenly all rise together, the Chileno knows that it is the puma, which, watching the carcass, has sprung out to drive away the robbers. Besides feeding on carrion, the condors frequently attack young goats and lambs. Hence the shepherds train their dogs, the moment the enemy passes over, to run out, and looking unwards, to bark violently. The Chilenos destroy and catch numbers; two methods are used; one is to place a carcass within an enclosure of sticks on a level piece of ground, and when the condors have gorged themselves to gallop up on horseback to the entrance, and thus enclose them: for when this bird has not space to run, it cannot give its body sufficient momentum to rise from the ground. The second method is to mark the trees in which, frequently to the number of five or six, they roost together, and then at night to climb up and noose them; they are such heavy sleepers, as I have myself witnessed, that this is not a difficult task. At Valparaiso I have seen a living condor sold for sixpence, but the common price is eight or ten shillings. One which I saw brought in for sale, had been lashed with a rope, and was much injured; but the moment the line was cut by which its bill was secured, it began, although surrounded by people, ravenously to tear a piece of carrion. In a garden at the same place, between twenty and thirty of these birds were kept alive; they were fed only once a week, yet they appeared to be in pretty good health.* The Chileno countrymen assert, that the condor will live and retain its powers between five and six weeks without eating: I cannot answer for the truth of this fact, but it is a cruel experiment, which very likely has been tried.

When an animal is killed in this country, it is well known that the condors, like other carries vultures, gain the intelligence and congregate in a manner which often appears inexplicable. In most cases, it must not be overlooked, that the birds have discovered their prey, and have picked the skeleton clean, before the flesh is in the least degree tainted. Remembering the opinion of M. Audubon on the deficient smelling powers of such birds, I tried in the about mentioned gadeen, the following experiment. The condors were tied, each by a rope, in a long row at the bottom of a wall. Having folded a piece of meat in white paper, I waskled backwards and forwards, carrying it in my hand at the

^{*} I noticed that several hours before any of the Condors died, all the lice with which they are infested, rawled to the outside feathers. I was told, that this always happened.

[•] In the case of the Culturia Area, Mr. Owen, is seen notes and before the Zeological Society, (So Magainer of Not. High, New Ser. vol. 1, p. 6.23), has demonstrated from the developed frees of the allescay arrays, that this best must posses as notes one of small. It was mentioned on the same coming, in a communication from Mr. Society, the state process in the Wort Linds baring disk, and their bodies root being harded till they must definably, those beliefs compand in numbers on the roof of the boson. This intense expansy replies conducting, and are not read, from the conduction of the buildings, that they must have glained the intelligence by the same of small alone, and not by that of eight. It would appear from the various finite rooted, that carries oblig have been obligated by the same of small alone, and not by that of eight. It would appear from the various finite rooted, that carries oblig have been obligated by the degree.

distance of about three yards from them; but no notice whatever was taken of it. I then threw it on the ground within one yard of an eld cock bird; he looked at it for a moment with attention, but then regarded it no more. With a stick I pushed it closer and closer, until at last he touched it with his beak: the paper was then instantly toro of with fury, and at the same moment every bird in the long row begun struggling and flapping its wings. Under the same circumstances, it would have been quite impossible to have deceived a dog.

When the condors in a flock are wheeling round and round any spot, their flight is beautiful. Except when they rise from the ground, I do not recollect ever to have seen one flap its wings. Near Lima, I watched several of these birds for a quarter and half-an-hour, without once taking off my eyes. They moved in large curves, sweeping in circles, descending and ascending without once flapping. As several glided close over my head, I intently watched, from an oblique position, the separate and terminal feathers of the wing; if there had been the least vibratory movement, their outlines would have been blended together, but they were seen distinct against the blue sky. The head and neck were moved frequently, and apparently with force. If the bird wished to descend, the wings were for a moment collapsed; and then, when again expanded with an altered inclination, the momentum gained by the rapid descent, seemed to urge the bird upwards, with the even and steady movement of a paper kite. It was a beautiful spectacle thus to behold these great vultures hour after hour, without any apparent exertion, wheeling and gliding over mountain and river.

In the garden at Valparaiso, where so many condors were kept alive, J observed that all the hens had the iris of their eyes bright red, but the cocks yellowish-brown. In a young bird, whose back was brown, and ruff not white, (but which must have been at least nearly a year old, as it was then the spring) I observed that the eye was dark brown: upon examination after death, this proved to be a female, and therefore I suppose the colour of the iris changes at the same time with the plumage. 8.

1. CATHARTES ATRATUS. Rich. and Swain.

Cathartes urubu, *Il'Orbigny*. Voy. Ois.

Vultur atratus, *Bartrasa*, p. 287.

jota, *Jardinés* Wilson, vol. iii. p. 230

, Bonaparité List, p. 1.
Gallinazo et Cuervo of the Spanish inhabitants of America; and Black Vulture or Carrion Crow of the
Rapilish of that coetinent.

THESE birds, I believe, are never found further south, than the neighbourhood of the Rio Neoro, in latitude 41°: I never saw one in southern Patagonia, or in Tierra del Fuego. They appear to prefer damp places, especially the vicinity of rivers; and thus, although abundant both at the Rio Negro and Colorado, they are not found on the intermediate plains. Azara* states, that there existed a tradition in his time, that on the first arrival of the Spaniards in the Plata, these hirds were not found in the neighbourhood of Monte Video, but that they subsequently followed the inhabitants from more northern districts. M. Al. D'Orbigny, in reference to this statement, observes that these vultures, although common on the northern bank of the Plata, and likewise on the rivers south of it, are not found in the neighbourhood of Buenos Avres, where the immense slaughtering establishments are attended by infinite numbers of Polybori and gulls. M. D'Orbigny supposes that their absence is owing to the scarcity of trees and bushes in the Pampas: but this view, I think, will hardly hold good, inasmuch as the country near Bahia Blanca, where the Gallinazo (together with the carrion-feeding gull) is common, is as bare, if not more so, than the plains near Buenos Avres. I have never seen the Gallinazo in Chile: and Molina, who was aware of the difference between the C. atratus and C. aura, has not noticed it: yet, on the opposite side of the Cordillera, near Mendoza, it is common. They do not occur in Chiloe, or on the west coast of the continent south of that island. In Wilson's Ornithology it is said that "the carrion crow (as this bird is called in the United States) is seldom found on the Atlantic to the northward of Newbern, lat. 35° North Carolina." But in Richardson's "Fauna Boreali-Americana," it is mentioned, on the authority of Mr. David Douglas, that on the Pacific side of the continent, it is common on the marshy islands of the Columbia, and in the neighbourhood of Lewis's and Clark's rivers (45°-47° N.) It has, therefore, a wider range in the northern * Voyage dans l'Amérique Méridionale, vol. iii. p. 24.

than in the southern half of the continent. These vultures certainly are gregations; for they seem to have pleasure in each other's society, and are not solely brought together by the attraction of a common prey. On a fine day, a flock may often be seen at a great height; each bird wheeling round and or round in the most graceful evolutions. This is evidently done for their sport, or, perhaps, is connected (for a similar habit may sometimes be observed during the breeding season amongst our common rooks) with their matrimonial alliances.

2. CATHARTES AURA. Illi.

Vultur aurs, *Linn.*— *Jardiná's Wilson*, vol. iii. p. 226.
Vultur jota, *Molins*, Compeniio de la Hist. del Reyno de Chile, vol i. p. 296.
Tulkey-bozand and Carrion Crew of the English in America.

This bird has a wide geographical range, being found from 55° S. to Nova Scotia (according to Wilson, in Jardine's edition, vol. iii, p. 231.) in 45° N .; or exactly one hundred degrees of latitude. Its lesser range in Northern than in Southern America is probably due to the more excessive nature of the climate in the former hemisphere. It is said to be partly migatory during winter, in the Northern and even in the Middle States, and likewise on the shores of the Pacific. The C. aura is found in the extreme parts of Tierra del Fuego, and on the indented coast, covered with thick forests, of West Patagonia, (but not on the arid plains of Eastern Patagonia,) in Chile, where it is called Jote, in Peru, in the West Indies; and, according to Wilson, it remains even during winter, in New Jersey and Delaware, latitude 40°. It and one of the family of Polyborinæ are the only two carrion-feeding hawks, which have found their way to the Falkland Islands. The Turkey buzzard, as it is generally called by the English, may be recognized at a great distance from its lofty, soaring and most graceful flight. It is generally solitary, or, at most, sweeps over the country in pairs, In Tierra del Fuego, and on the west coast of Patagonia, it must live exclusively on what the sea throws up, and on dead seals: wherever these animals in herds were sleeping on the beach, there this vulture might be seen, patiently standing on some neighbouring rock. At the Falkland Islands it was tolerably common; but sometimes there would not be a single one near the settlement for several days together, and then many would suddenly appear. They were usually shy; a disposition which is remarkable, as being different from that of almost every other bird in this Archipelago. May we infer from this that they are migratory, like those of the northern hemisphere? In a female specimen killed there, the skin of the head was intermediate in colour between s. 9

"scattet and cochineal red," and the iris dark-coloured. D'Orbigny describes the iris as being high scattet; whilst Azan says it is "june léger." Is this difference owing to the sex and age, as certainly is the case with the condoor's As a considerable degree of contision has prevailed in the synonyms of this and the foregoing species, caused apparently by a doubt to which of them Molina applied the name of Jote. It would wish to call attention to the fact, that at the present time the C. awa in Chile goes by the name of Jote. Moreover, I think Molina's description by itself might have decided the question; he says, the head of the Valtur jota is naked, and covered only with a wrinkled and redthic forcins' jobs.

FAMILY-FALCONIDÆ.

SUB-FAM. POLYBORINÆ, S

Polyborus Brasiliensis. Swains.

Polyborus vulgaris, Vicille

Falco Brasiliensis Auctorum; Caracara of Azara; Tharu of Molina; and Carrancha of the inhabitants of La Plata.

Tus is one of the commonest birds in South America, and has a wide geographic alrange. It is found in Mexico and in the West Indies. It is also, according to M. Audubon, an occasional visitant to the Floridas; it takes its name from Brazil, but is no where so common as on the grassy savannals of La Plata. It generally follows man, but is sometimes found even on the most desert plains of Patagonia: in the norther part of that region, numbers constantly attended the line of road between the Rio Negro and the Colorado, to devour the carcasses of the animals which chanced to perish from fatigue. Although abundant on the open plains of this eastern portion of the continent, and likewise on the recky and barren shores of the Pacific, neverthees it inhabits the borders of the damp and impervious forests of Therm del Puego and of the broken coast of West Patagonia; is called in La Plata) together with the P. ckinsunger, attend in great numbers is called in La Plata) together with the P. ckinsunger, attend in great numbers the estancias and shaughtering houses in the neighbourhood of the Plata. If an

* In this work, whenever the particular name of any colour is given, or it is placed within commas, it implies, that it is taken from comparison with Patrick Syme's edition of Werner's Nonemelature of Colours.

⁺ Mileago Chimango of this work.

animal dies in the plain, the Cathartea atrabas or Gallinazo commences the feast, and then these two carrion-feeting hawks pick the bones clean. Although belonging to closely allied genera, and thus commonly feeding together, they are far tree, or on the ground, the Chinaugo often continues Bying backwards and forwards for a long time, up and down in a semicircle, trying each time, at the bottom of the curre, to strike its larger relative. The Carrancha takes little notice, except by bobbing its head. Although the Carranchas frequently assemble in numbers, they are not gregarious; for in desert places they may be seen solitary, or more commonly by pairs. Besides the carrion of large animals, these birds frequent the borders of streams and the sea-beach, for the sake of picking up whatever the waters may cast on shore. In Tierra del Fuego, and on the west coast of Patagonia, they must live almost exclusively on this last means of supply.

The Carranchas are said to be very crafty, and to steal great numbers of eggs; they attempt also, together with the Chimango, to pick the scabs off the sore backs of both horses and mules. On the one hand, the poor animal, with its ears down and its back arched; and, on the other, the hovering bird, eyeing at the distance of a yard, the disgusting morsel, form a picture which has been described by Captain Head with his own peculiar spirit and accuracy. The Carranchas kill wounded animals; but Mr. Bynoe (the surgeon of the Beagle) saw one seize in the air a live partridge, which, however, escaped, and was for some time chased on the ground. I believe this circumstance is very unusual: at all events there is no doubt that the chief part of their sustenance is derived from carrion. A person will discover their necrophagous habits by walking out on one of the desolate plains, and there lying down to sleep: when he awakes, he will see on each surrounding hillock, one of these birds patiently watching him with an evil eve. It is a feature in the landscape of these countries, which will be recognised by every one who has wandered over them. If a party goes out hunting with dogs and horses, it will be accompanied during the day, by several of these attendants. The uncovered craw of the Carrancha, after feeding, protrudes from its breast; at such times it is, and indeed generally, an inactive, tame, and cowardly bird. Its flight is generally heavy and slow, like that of the English carrion crow, whose place it so well supplies in America. It seldom soars; but I have twice seen one at a great height gliding through the air with much ease. It runs (in contradistinction to hopping), but not quite so quickly as some of its congeners. At times the Carrancha is noisy, but is not generally so; its cry is loud, very harsh and peculiar, and may be compared to the sound of the Spanish guttural g, followed by a rough double rr. Perhaps the Spaniards of Buenos Ayres, from this cause, have called it Carrancha. Molina, who says it is called Tharu in Chile, states, that when uttering this cry, it elevates its head

II II

higher and higher, till at last, with its beak wide open, the crown almost touches the lower part of the back. This fact, which has been doubted, is true, for I have myself several times seen them with their heads backwards, in a completely inverted position. The Carrancha builds a large coarse nest, either in a fow cliff, or in a bash or lofty tree. To these observations I may add, on the high authority of Azara, whose statements have lately been so filled confirmed by M. D'Orbigay, that the Carrancha feeds on worms, shells, slugs, gmsshoppers, and frogs; that it destroys young lambs by tearing the umbilical ord; and that it pursues the Gallianzos and galls which attend the shaughteringbouses, till these birds are compelled to vonit up any carrion they may have lately gorged. Lastly, Azara states that several Carranchas, five or six together, will unite in classe of large birds, even such as brooss. All these facts show that it is a bird of very versatile habits and considerable ingenuite

I am led to suppose that the young birds of this species sometimes congregate together. On the plains of Santa Cruz (lat. 50° S. in Patagonia), I saw in the month of April, or early autumn, between twenty and thirty Polybori, which I at first thought would form a species distinct from P. Brasiliensis. Amongst those I killed, there were some of both sexes; but the ovarium in the hens was only slightly granular. The plumage of the different individuals was nearly similar: and in none appeared like that of an adult bird, although certainly not of a very young one. Having mentioned these circumstances to Mr. Gould, he likewise suspected it would form a new species; but the differences appear so trifling between it and the specimens of young birds in the British Museum and in the Museum of the Zoological Society, and likewise of the figure of a young bird given by Spix, (Avium Species Novæ, vol. i, p. 3.), that I have thought it advisable merely to allude to the circumstance. In my specimen, which is a cock, the head, instead of being of a dark brown, which is the usual character of even very immature birds, is of a pale rusty brown. The bill and cere are less produced than in the adult P. Brasiliensis; and the cere is of a brighter colour, than what appears to be usual in the young of this species. In other respects there is such a perfect similarity between them, that I do not hesitate to consider my specimen as a young bird of the P. Brasiliensis in one of its states of change :- and to be subject to great variation of plumage during growth, is known to be a character common to the birds of this sub-family. It may, however, possibly be some variety of the P. Brasiliensis, for this bird seems subject to variation : Azara (Voyage dans l'Amérique Méridionale, vol. iii, p. 35.) remarks, "Il y a des individus dont les teintes sont plus faibles, ou d'un brun pâle, avec des taches sur la poitrine, et d'autres qui ont des couleurs plus foncées : j'ai décrit ceux qui tiennent le milieu entre les uns et les autres."

I have myself more than once observed a single very pale-coloured bird, in

form like the P. Brasilicasis, mingled with the other carrion-feeding hawks on the banks of the Plata; and there is now in the British Museum a specimen, which may be considered as partly an albino. Spix, on the other hand, (Avium Species Novae, p. 3.) has described some specimens from the coast of Brazil, as being remarkable from the darkness of the plumage of their wings.

MILVAGO, Spix.

Several new genera have lately been established to receive certain species of the sub-family of Polyborius, and consequently great confusion exists in their arrangement. Mr. George R. Gray has been kind enough to give me the following observations, by which it appears he has clearly made out, that Spix's genus Milozgo, is that which ought to be retained. M. D'Orbigny has made two sections in the genus Polyborus, according as the crue is covered with feathers, or is naked, and he states that the P. Brusiliensi is the only species which comes within the latter division; but we shall afterwards see that the Falce None Zelandiic, Auct. (the Milesgo lenceus of this work) has a naked curve, which is largely potrated after the bird has eaten. M. D'Orbigny has also instituted the genus Phalcohemus, to receive a bird of this sub-family, with the following characters:

"Bec fortement comprimé, sans ancune dent ni sinus, à commissure trèsarquée à son extrémité; cire alongée et droite; un large espace un entourant la partie antérieure et inférieure de l'œil, et s'étendant sur toute la mandibule inférieure; tarses emplumés sur un tiers de leur longueur, le reste réficulé; doigts longs, sembables à evex des galliancés, terminés par les ongies longs, deprimés et élargis, très-peu arqués, toujours à extrémité obtuse on fortement usée; ailés de famille, la troisème penne ples longue que les autres.

Mr. George R. Gray, however, has pointed out to me that Spix, (in his Avium Species Nowe) ten years since, made a division in this sub-family, from the rounded form of the nostril of one of the species, namely, the M. selvoce-plans of his work, or the Chinackinso of Azara. And Mr. Gray thinks, that all the species may be grouped much more nearly in relation to their affinities by this character, than by any other: he further adds;——The only difference which I can discover between this latter genus (Militoge), and D'Orbigny's (Phalcoberno), is, that in the latter the bill is rather longer, and not quite so elevated in the culmen as in the former; and these characters must be considered too trivial for the foundation of a generic division. I, therefore, propose to retain Spix's genus, Militoge, for all those Polsporine which possess rounded sortriti with

an elevated bony tubercle in the centre. They were once considered to form three distinct genera, viz .- Milyago, Spix. (Polyborus, Vieill, Haliaëtus, Cuv. Aquila, Meyen.) -Senex. Gray. (Circaëtus, Less.)-Phalcobænus, D'Orb. but a careful comparison of the several species, shows a regular gradation in structure from one to the other, which induces me to consider them as only forming two sections of one genus. Those which have the bill short, with the culmen arched, and are of small size, slender form, and with the tarsi rather long and slender are-

1. Milyago ochrocephalus, Spix.

2. Milvago pezoporos, nob. Aquila pezopora, Meyen.

3. Milvago chimango, n. Polyborus chimango, Vieill.

Halisetus chimango, Lee.

Those which have a buteo-like appearance, and with rather short and stout tarsi, are.

7. Milvago leucurus, n. Falco leucurus, Forster's Drawings No. 34.

8. Milvago albogularis, n.

9. Milvago montanus, n.

10. Milyago megalopterus, n.

1. MILVAGO PEZOPOROS.

Aquila pezopora, Meyew, Nov. Act. Phys. Med. Acad. Cus. Leo. Car. Nat. Cur. suppl. 1834, p. 62, pl. VI. I obtained two specimens of this bird, one from Port Desire, in Patagonia, and another at the extreme southern point of Tierra del Fuego. Meyen* describes it as common on the plains of Chile, and on the mountains to an elevation of 4000 or 5000 feet. As M. D'Orbigny does not notice this species, I presume it is not found on the Atlantic side of the continent, so far north as the Rio Negro, where he resided for some time. The habits and general appearance of M. chimango and this bird are so entirely similar, that

* Novorum Actorum Academia: Casarias, Leopol. vol. xvi. p. 62. Observationes Zoologicas, F. J. Meyenii.

I did not perceive that the species were different; hence I cannot speak with certainty of their range, but it would appear probable that the M. nezonorus replaces in Chile, Tierra del Fuego and Southern Patagonia the M. chimango of La Plata. In the same manner the M. chimango is replaced between the latitudes of Buenos Avres and Corrientes by a third closely allied species, the M. ochrocephalus. D'Orbigny, (p. 614, in the Zoological part of his work) speaking of the Chimango, says, "Il n'est pas étonnant qu'on ait long-temps confondu cette espèce avec le falco degener, Illiger, (the M. ochrocephalus) et qu'on l'ait cru de sa famille. Il est impossible de présenter plus de rapports de forme et surtout de couleur. Nous les avions, nous-même confondus au premier abord; mais, en remarquant, ultérieurement, que le sujet que nous regardions comme le male ne se trouvait qu'à Corrientes, tandis qu'il v avait seulement des femelles sur les rives de la Plata, l'étude plus attentive des mœurs de ces oiseaux, et les localités respectives qu'habite chacun d'eux, ne tarda pas à nous y faire reconnaître, avec Azara, deux espèces vraiment trèsdistinctes : mais qui, depuis, ont encore été confondues, sous la même nom, par M. la Prince Maximilien de Neuwied. *" I may observe that the figure given in Meyen's work, has the iris coloured bright red, instead of which it should have heen brown

MILVAGO CHIMANGO. Polyborus chimango, Vieill. Haliačtus chimango, Leer. Chimango, Acar. Voyage, vol. iii. p. 35.

My specimen was obtained at Maldomado, on the banks of the Plata. In the following short account of the habits of this bird, it must be understood that I have confounded together, the M. chimago and the M. pezopows; but I am certain that almost every remark is applicable to both species. From what has been said under the last head, it may be inferred, that both of these allied birds have comparatively limited ranges, compared with that of the P. Brauiliessis. Azara says the Chimango (and he first distinguished this species from the M. cohrecephales, or M. chimachinos) is rarely found so far north as Paraguay. D'Orbigny saw the Chimango (M. pezopowar) at Arica in lat. 16°, and I killed the M. pezopowar in the extreme southern point of America, in lat. 5° 30 south.

The Chimango, in La Plata, lives chiefly on carrion, and generally is the last bird of its tribe which leaves the skeleton, and hence it may frequently be seen standing within the ribs of a cow or horse, like a bird in a cage. The Chimango often frequents the sen-coast and the borders of lakes and swamps, where it picks up small fish. It is truly omniroous, and will eat even bread, when thrown out

^{*} Tom. iii. p. 162.

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of a hosse with ether offal. I was also assured that in Chiloc, these birds (probably in this district the M. peceparan) materially injure the potato crops, by stocking up the nots when first planted. In the same island, I saw them following by scores the plough, and feeding on worms and larve of insects. I do not believe that they kill, under any circumstances, even small birds or animals. They are more active than the Carmachas, but their flight is heavy; I never saw one soar; they are very tame; are not gregations; commonly perch on stone walls, and not upon trees. They frequently utter agentle, shrill scream.

3. MILVAGO LEUCURUS.
Falco leucurus, Forster's Drawings, No. 34. Mi

— Nova Zelandim, Gm.

It will be observed in the above list of synonyms, which I have given on the authority of Mr. G. R. Gray, that this bird, although possessing well marked characters, has received several specific names. Mr. Gray's discovery of Forster's original drawing with the name F. leucurus written on it, I consider very fortunate, as it was indispensable that the names by which it is mentioned in most ornithological works, namely, Falco or Polyborus Novæ Zelandiæ, should be changed. There is not, I believe, the slightest reason for supposing that this bird has ever been found in New Zealand. All the specimens which of late years have been brought to England have come from the Falkland Islands, or the extreme southern portion of South America. The sub-family, moreover, to which it belongs, is exclusively American; and I do not know of any case of a land bird being common to this continent and New Zealand. The origin of this specific name, which is so singularly inappropriate, as tending to perpetuate a belief which would form a strange anomaly in the geographical distribution of these birds, may be explained by the circumstance of specimens having been first brought to Europe by the naturalists during Captain Cook's second voyage, during which New Zealand was visited, and a large collection made there. In the homeward voyage, however, Cook anchored in Christmas Sound, in Tierra del Fuego, and likewise in Staten Land: describing the latter place he says, "I have often observed the eagles and rultures sitting on the hillocks among the shags, without the latter, either young or old, being disturbed at their presence. It may be asked how these birds of prev live? I suppose on the carcasses of seals and birds, which die by various causes; and probably not few, as they are so numerous." From this description I entertain very little doubt that Cook referred to the Cathartes aura and Milvago leucurus, both of which birds inhabit

these latitudes, as we shall hereafter show.

The plumage in the two sexes of this species differs in a manner unusual in the family to which it belongs. The description given in all systematic works is applicable, as I ascertained by dissection, only to the old females; namely, back and breast back, with the feathers of the neck, having as white central mark following the shaft—teetriese, with a broad white band at extremity; thighs and part of the belly profuse-ref; beak "wal gray," with over our latt as "Dutch orange."

Marx of smaller size than female: dark brown; with tail, pointed feathers of shoulders and base of primaries, pale rusty brown. On the breast, that part of each feather which is nearly white in the female, is pale brown: bill black, cere white, tarsi gray. As may be inferred from this description, the female is a much more beautiful bird than the male, and all the tints, both of the dark and pale colours, are much more strongly pronounced. From this circumstance, it was long before I would believe that the sexes were as here described. But the Spaniands, who are employed in hunting wild cattle, and who (like the aboriginal inhabitants of every country) are excellent practical observers, constantly assured me that the small birds with gray legs were the males of the larger ones with leeve and ever of an onnec colour, and thirds with rowns shumaer.

The Young Male can only be distinguished from the adult bird by its beak not being so black, or cere so white; and likewise in a trifling difference of plumage, such as in the markings of the pointed feathers about the head and neck, being more like those of the female than of the old cock. One specimen, which I obtained at the Falkland Islands, I suppose is a one-year-old female: but its organs of generation were smooth : in size larger than the male : the tail dark brown, with the tip of each feather pale colour, instead of being almost black with a white band: under tail-coverts dark brown, instead of rufous: thighs only partly rufous, and chiefly on the inner sides; feathers on breast and shoulder like those of male, with part near shaft brown; those on back of head with white, like those of adult females. Beak, lower mandible gray, upper black and gray (in the old female the whole is pale gray); the edge of cere and the soles of the feet orange, instead of the whole of the cere, tarsi, and toes being thus coloured. The circumstance of the young birds of, at least, one year and a half old, as well as of the adult males, being brown coloured, will, I believe, alone account for the singular fewness of the individuals with rufous thighs, a fact which at first much surprised me.

The Milago locurum is exceedingly numerous at the Falkhand Islands, and, as no dis scaler who had long frequented these sear remarked to me, this Archipelago appears to be their metropolis. I was informed, by the same authority, that they are found on the Diego Ramiere Rocks, the II Defonso islands, and on some others, but never on the mainland of Tierra del Fuego. This statement I can corroborate to a certain degree, since I never saw one in the southern part of

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Tierra del Fuego, near Cape Horn, which was twice visited during our voyage. They are not found on Georgia, or on the other antarctic islands. In many respects these hawks very closely resemble in their habits the P. Brasiliensis. They live on the flesh of dead animals, and on marine productions. On the Ramirez Rocks, which support no vegetation, and therefore no land-animals, their entire sustenance must depend upon the sea. At the Falkland Islands they were extraordinarily tame and fearless; and constantly haunted the neighbourhood of the houses to pick up all kinds of offal. If a hunting party in the country killed a beast, these birds immediately congregated from all quarters of the horizon; and standing on the ground in a circle, they patiently awaited for their feast to commence. After eating, their uncovered craws are largely protruded, giving to them a disgusting appearance. I mention this particularly, because M. D'Orbigny says that the P. Brasiliensis is the only bird of this family in which the craw is much developed. They readily attack wounded birds; one of the officers of the Beagle told me he saw a cormorant in this state fly to the shore, where several of these hawks immediately seized upon it, and hastened its death by their repeated blows. I have been told that several have been seen to wait together at the mouth of a rabbit hole, and seize on the animal as it comes out. This is acting on a principle of union, which is sufficiently remarkable in birds of prey; but which is in strict conformity with the fact stated by Azara, namely, that several Carranchas unite together in pursuit of large birds, even such as herons.

The Beagle was at the Falkland Islands only during the early autumn (March), but the officers of the Adventure, who were there in the winter, mentioned many extraordinary instances of the boldness and rapacity of these birds. The their eyes; and often, when having cautiously looked round, they thought they had succeeded in hiding a fine bird in some crevice of the rocks, on their return, they found, when intending to pick up their game, nothing but feathers. One of these hawks pounced on a dog which was lying asleep close by a party, who were out shooting; and they repeatedly flew on board the vessel lying in the harbour, so that it was necessary to keep a good look-out to prevent the hide used about the ropes, being torn from the rigging, and the meat or game from the stern. They are very mischievous and inquisitive; and they will pick up almost anything from the ground: a large black glazed hat was carried nearly a mile, as was a pair of heavy balls, used in catching wild cattle. Mr. Usborne experienced, during the survey, a severe loss, in a small Kater's-compass, in a red morocco case, which was never recovered. These birds are, moreover quarrelsome, and extremely passionate; it was curious to behold them when, impatient, tearing up the grass with their bills from rage. They are not truly gregarious; they do not soar, and their flight is heavy and clumsy. On the ground they run with extreme quickness, putting out one leg before the other, and stretching forward their bodies, very much like pheasants. The sealers, who have sometimes, when pressed by hunger, ceans them, say that the flesh when cooked is quite white, like that of a fowl, and very good to eat—a fact which I, as well as some others of a party from the Bengle, who, owing to a gale of wind, were left on shore in northern Palagonia, until we were very hungry, can answer for, is far from being the case with the flesh of the Carrancha, or Polybrows Branificavis. It is a strange anomaly that any of the Falconite should possess such perfect powers of running as is the case with this bird, and likewise with the Palafockrass measteness of D'Orbigny. It perhaps, indicates an obscure relationship with the Gallinaccons order—a relation which M. D'Orbign suggress to stuth nor plantly shown in the Secretary Bird, which he believes represents in Southern Africa, the Polybroize of America.

The M. leacurus is a noisy bird, and utters several harsh cries; of which, one is so like that of the English nod, that the sealers always call it by this name. It is a curious circumstance, as shewing how, in allied species, small details of habit accompany similar structure, that these hawks throw their heads upwards and backwards, in the same strange manner, as the Carranchas (the Tharu of Molina) have been described to do. The M. leacurus, builds on the rocky cliffs of the sea-coast, but (as I was informed) only on the small outlying islets, and never on the two main islands: this is an odd precaution for so fearless a bird.

4. MILVAGO ALBOGULARIS.

PLATE L

Polyborus, (Phalcobanus) albogularis, Gould, Proceedings of Zoolog. Soc. Part V. (Jan. 1837.) p. 9.

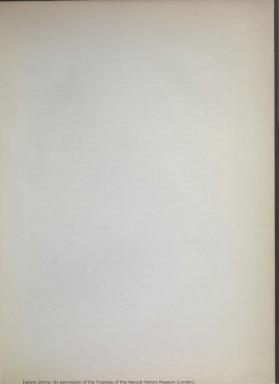
M. Fæm. fuscescenti-niger, marginibus plumarum inter scapulas fulvis; primariis secundariisque albo ad apieem notatis; guld, pectore, corporeque subtitualbis; lateribus fusco sparsis; rostro livido, lineis nigris ornato; cera tarsisque flaris.

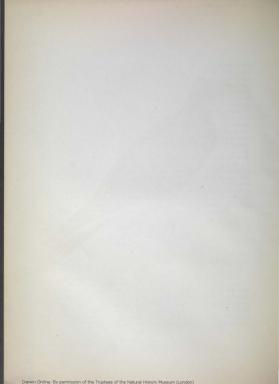
Loso, tot, 20 unc. 4; rostri, 15; als, 157; cands, 9; tarsi, 3.

Description of female specimen, believed to be applicable to both sexes.

Colour.—Head, back, upper wing coverts pitch black, passing into liver

JoLoven.—Head, back, upper wing coverts pitch black, passing into liver brown; feathers on back for lock and shoulders terminating in a yellowishbrown tip, of which tint the external portion of the primaries, and nearly the whole of the tetriaries partake. Tall liver brown, with a terminal white band nearly one inch broad; base of the tetrices white, irregularly marked with brown: upper tall coverts white. All the feathers of the wing

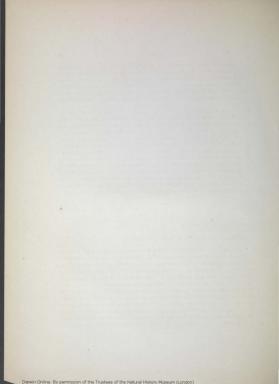






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Milvago albogularis.



tipped with white, their bases irregularly barred with transverse marks or proven and white. Under surface.—Chin, throat, breast, belly, thighs, under tail-coverts, under lining of wings, and edge of shoulders perfectly white. On the flanks, however, there are some brown feathers irregularly interspersed; and on the lower part of the breast, most of the feathers show a most obscure margin of pale brown. Bill horn-colour. Cere and tarsi vellow.

Foux.—Cere and nostril as in the M. Leacurus, but the bill not quite so strong. Feathers on the sides and back of head narrow and nutler stiff; those on the shoulders obtasely pointed,—which character of plumage is very general in this sub-family. Wing: fourth primary very little longer than the third or the fifth, which are equal to each other. First primary three inches shorter than the fourth or longest, and more nearly equal to thesixth than to the seventh. Extremity of wing reaching to within about an inch and a half of the tail. Tarsi reticulated, with four large scales at the base: upper part covered with plumose feathers for about three quarters of an inch below the knee; but these feathers hang down and cover nearly half of the leg. Middle toe with fifteen scales, outer ones with about nine. Claws of nearly the same degree of strength, curvature and breadth as in Polyborus Brusiliousis, or in M. leacurus, but sharper than those of the latter.

						Inch.		Inch.
Total length .						201	Hind claw measured in straight line from	
Tail						9	tip to root	
Wings when folded						157	Claw of middle toe, a twentieth less than that	
From tip of beak to anterior edge of eye . &								
Tarsus from soles of feet to knee joint						31		

Habitat, Santa Cruz, 50° S. Patagonia. (April.)

Mr. Gould, at the time of describing this species, entertained some doubse whether it might not eventually prove to the P-Bachesan sonatures of DO thingsy, the state of change. I have carefully compared it with the description of the P-montanes, and certainly, with the exception of the one great difference of M. albogularis having a white breast, whilst that part in the P-montanes is black, the points of resemblance are numerous and exceedingly close. The M. albogularis, appears to be rather larger, and the proportional length of the wing feathers are slightly different; the cere and tarsi are not of so bright a colour; the middle toe has fifteen scales on it instead of having sixteen or seventeen. The black shades of the upper surface are pitchy, instead of having an obscure metallic gloss, and the feathers of the shoulders are terminated with brown, so as to form a coldar, which is not represented in the figure of

P. montanus, given by M. D'Orbigny. Although the main difference between the two birds, is the colour of their breasts, yet it must be observed, that in the M. albogularis there is some indication of an incipient change from white to brown in the plumage of that part. But as M. D'Orbigny, who was acquainted with the young birds of the P. montanus, (of which he has given a figure), does not mention so remarkable a modification in its plumage, as must take place on the supposition of M. albogularis being an immature bird of that species; and as the geographical range of the two is so very different, I am induced to consider them distinct. Moreover, on the plains of Santa Cruz. I saw several birds, and they appeared to me similar in their colouring. The M. albogularis is remarkable from the confined locality which it appears to frequent. A few pair were seen during the ascent of the river Santa Cruz, (Lat. 50° S.) to the Cordillera; but not one individual was observed in any other part of Patagonia. They appeared to me to resemble, in their gait and manner of flight, the P. Brasiliensis; but they were rather wilder. They lived in pairs, and generally were near the river. One day I observed a couple standing with the Carranchas and M. pezoporus, at a short distance from the carcass of a guanaco, on which the condors had commenced an attack. These peculiarities of habit are described by M. D'Orbigny in almost the same words, as occurring with the P. montanus; both birds frequent desert countries; the P. montanus, however, haunts the great mountains of Bolivia, and this species, the open plains of Patagonia.

In the valleys north of 30° in Chile, I saw several pair, either of this species, or of the P. montanus of D'Orbigny, (if, as is probable, they are different) or of some third kind. From the circumstance of its not extending (as I believe) so far south even as the valley of Coquimbo, it is extremely improbable that it should be the M. albogularis, -an inhabitant of a plain country twenty degrees further south. On the other hand, the P. montanus lives at a great elevation on the mountains of Upper Peru; and therefore it is probable that it might be found in a higher latitude, but at a less elevation. M. D'Orbigny says, "Elle aime les terrains sees et dépourvus de grands végétaux, qui lui seraient inutiles; car il nous est prouvé qu'elle ne se perche pas sur les branches." In another part he adds, "Elle descend cependant quelquefois jusque près de la mer, sur la côte du Pérou, mais ce n'est que pour peu de temps, et peutêtre afin d'y chercher momentanément une nourriture qui lui manque dans son séjour habituel; peut-être aussi la nature du sol l'y attire-t-elle; car elle y trouve les terrains arides qui lui sont propres." * This is so entirely the character of the northern parts of Chile, that, it appears to me extremely probable, that the P. montanus, which inhabits the great mountains of Bolivia, descends, in Northern Chile, to near the shores of the Pacific; but that further

^{*} Voyage dans l'Amerique Meridionale Partie, Oiseaux, p. 52.

south, and on the opposite side of the Cordillera, it is replaced by an allied species,—the M. allogularis of Santa Cruz.

5. MILVAGO MEGALOPTERUS.

Aquila megaloptera, Meyen, Nov. Act. Acad. Cas. Suppl. 1834, p. 64. Pl. VIII.

When ascending the Despoblado, a branch of the valley of Copiapó in Northern Chile. I saw several brown-coloured hawks, which at the time appeared new to me, but of which I did not procure a specimen. These I have no doubt were the A. megaloptera of Meyen. In the British Museum there is a specimen, brought from Chile by Mr. Crawley. Mr. G. R. Gray suspects that this bird may eventually prove to be the young of the Phalcobarnus montanus of D'Orbigny, and as I saw that bird (or another species having a close general resemblance with it) in the valleys of Northern Chile, although not in the immediate vicinity, this supposition is by no means improbable. Meyen's figure at first sight appears very different from that of the voung of the P. montanus, given by M. D'Orbigny, for in the latter the feathers over nearly the whole body are more distinctly bordered with a pale rufous shade, the thighs barred with the same, and the general tint is of a much redder brown. But with the exception of these differences, which are only in degree, I can find in M. D'Orbigny's description no other distinguishing character, whilst on the other hand, there are numerous points of close resemblance between the two birds in the shadings, and even trifling marks of their plumage. Meyen, moreover, in describing the habits of his species, says, it frequents a region just below the limit of perpetual snow, and that it sometimes soars at a great height like a condor. Those which I saw had the general manners of a Poluborus or Mileago, and were flying from rock to rock amongst the mountains at a considerable elevation, but far below the snow-line. In these several respects, there is a close agreement with the habits of the P. montanus, as described by M. D'Orbigny. I will only add that the specimen in the British Museum appeared, independently of differences of plumage, distinct from the M. alborularis of Patagonia, from the thinness and greater prolongation of its beak, and the slenderness of its tarsi.

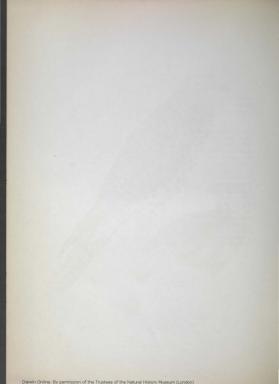
SUB.-FAM.-BUTEONINÆ.

CRAXIREX. Gould.

Rostrum Buteonis sed longius; mandibulæ superioris margo rectus; versus apicæn subitò incurvus. Alæ elongatæ. Cera lata. Nares ferè rotundæ, apertæ. Tarsi mediocres, anticè squamis tecti. Digiti magni, fortes; ungues obtusæ.

Mr. Gould was partly led to institute this genus from the facts communicated to him by me regarding the habits of the following species, which is found in the Galapagos Archipelago, and there supplies the place of the Polybori and Milvagines of the neighbouring continent of America. If a principle of classification founded on habits alone, were admissible, this bird, as will presently be shown, undoubtedly would be ranked with more propriety in the sub-family of Polyboring, than amongst the Buzzards. To the latter it is closely related in the form of its nostrils; in the kind of plumage which covers the head, breast, and shoulders; in the reticulation of the scales on its feet and tarsi, and less closely in the form of its beak. To the Polyborinæ it manifests an affinity in the great strength and length of its toes and claws, and in the bluntness of the latter: in the nakedness of the cere, in the perfectly uncovered nostrils, in the prolongation and bulk of the bill, in the straightness of the line of commissure, and in the narrow shape of the head. In these several respects, taken conjointly with its habits, this bird supplies a most interesting link in the chain of affinities, by which the true buzzards pass into the great American sub-family of carrionfeeding hawks. I am, indeed, unable to decide, whether I have judged rightly in placing this genus, as first of the Buteoning, instead of last of the Polyboring.

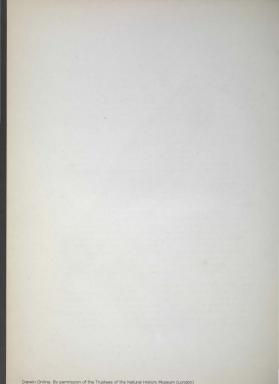






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Graxirex Galapagoensis.



DS.

CRAXIREX GALAPAGOENSIS. Gould.

Polyborus Galapagoensis. Proceedings of the Zoological Society for January, 1837, p. 9

C. Mas. adult. Intensè fuscus; primariis nigris; socundariarum pogoniis interuis transeersim albo et fusco strialis; caudă cinerascenti-fuscă, transversim lineis augustis et numerosis intensè fuscis notată; rostro obscure corneo; pedibus olivaceo-flacis.

.ong. tot. 201 unc.; rostri, 11; ala, 15; cauda, 81; tarsi, 3

Fam. adult. faminæ juniori ferè similis, pectore tamen fusco.

Fam. jus. Capite carporque intensè stramineis, fusco-cariegatis; illo in pectore et abdomine provealente; primarii fusco-nigris; rectricum pogoniis externicincuracuti-fuscis, interà palifie rousceis; utiripue lineis angasties et frequentium fuscis transcersim striatis, apicibus sordide albis; rostro nigrescenti-fusco; pedibus alirano-duni;

Long. tot. 24 unc.; rostri, 11; ale, 171; caude, 101; tarri, 3].

Description of adult male

COLOUR.—Entire dorsal aspect umber brown: base of feathers on hind part on neck, white; base of those on back, irregularly banded with pale futivous, and the scapulars with a distinct band of it. The inferior feathers of upper tail covers banded in like manner to their extremilies. Tail dasky dove-hrown, obscurely marked with darkened transverse narrow bands. Primaries perfectly black towards their extremities, but with the outer edge of their base, gray; inner web banded and freckled with gray, brown, and white, which in the secondaries takes the form of regular bars. Under surface carriedy umber brown, but rather paler than the upper. Lining of wings gray, with irregular transverse brown bars: underside of tail the same, but paler. Thighs of a rather yellower brown. Bill and cere horn colour, mottled with pale gray; tarsi yellow.

Foax.—Beak, with apex much arched, both longer and more pointed than it is in the group of the Polyborina. Cere naked, with few bristles; nostrils large, quite uncorreed, irregularly triangular, with the angles much rounded, and situated rather above a central line between the culmen and commissure. Fourth primary longest, but third and fifth nearly equal to it; first, four inches and a half shorter than fourth, and equal to the eighth; second shorter than fifth. Extremities of wing reaching within half an inch of end of rail, Taxis strong, feathered for nearly a third of their length beneath the joint. Scales in narrow, undivided (with the exception in some instances of one) bands, covering the front of taxess. Toes very strong and rather long, like those of the species of Minego, and much more so than in the genus Batos. Hind-toe equal in length to the inner one; but not placed quite so high on the Taxus as in Paplorous. Basal joints of middle to covered with small scales, with five large ones towards the extremity. Claws very strong, thick and long, and rather more arched, and broader than in Paplovas Bratilizatis; their extremities obtuse, but not in so great a degree as in some species of Milwayo.

				Inches.
Total length from tip of bill to end of tail following curvature of body				$20\frac{1}{9}$
Tail				81
Wing, from elbow-joint to extremity of longest primary				15
Bill, from tip to anterior edge of eye measured in a straight line .				10
Tarsus, from soles of feet to centre of joint				3 /
Hind claw from tip to root, measured in straight line				175
Claw of middle toe				700

Old female.

Colour.-Nearly as in young female, but with the breast dark brown.

Young female.

Caoca.—Head, back of neck, back, wing coverts and tertinires barred and monttel, both with pale umber brown of the same tint as in the mule bird) and with pale fishwas orange. On head and back of neck, each feather is of the latter colour, with a mere patch of the brown on its tip; but in the longer feathers, as in the scapulars, upper tail coverts, inner web and part of outer of the tertinies, each is distinctly barred with the dark brown. Tail as in the old male. Primaries black as in male, with the inner webs nearly white, and marked with short transverse bars. Under surface and thighs of the same fulvous orange, but some of the feathers, especially those on the breast, are marked with small spots of umber brown on their tips. Some of the longer feathers on the flanks, on the under tail coverts, and on the linings of the wing, have irregular bars of the same.

FORM and Size.—Larger and more robust than the male. Total length 24 inches-Tail ten and a half inches long, and therefore longer in proportion to the wings than in the other sex. Wings from joint to end of primaries, 174. Habitat, Galapagos Archipelago, (October). 2

This bird is, I believe, confined to the Galapagos Archipelago, where on all the islands, it is excessively numerous. It inhabits, indifferently, either the dry sterile region near the coast, which, perhaps, is its most general resort, or the damp and wooded summits of the volcanic hills. This bird, in most of its habits and disposition, resembles the Milrago leucurus, or the Falco Novæ Zelandiæ of older authors. It is extremely tame, and frequents the neighbourhood of any building inhabited by man. When a tortoise is killed even in the midst of the woods, these birds immediately congregate in great numbers, and remain either seated on the ground, or on the branches of the stunted trees, patiently waiting to devour the intestines, and to pick the carapace clean, after the meat has been cut away. These birds will eat all kinds of offal thrown from the houses, and dead fish and marine productions cast up by the sea. They are said to kill young doves. and even chickens; and are very destructive to the little tortoises, as soon as they break through the shell. In these respects this bird shows its alliance with the buzzards. Its flight is neither elegant nor swift. On the ground it is able, like the M. leucurus and Phalcobænus montanus of D'Orbigny, to run very quickly. This habit which, as before observed, is so anomalous in the Falcons, manifests in a very striking manner the relation of this new genus with the Polyborinæ. It is, also, a noisy bird, and utters many different cries. one of which was so very like the shrill gentle scream of the M. chimango, that the officers of the "Beagle" generally called it either by this name, or from its larger size by that of Carrancha,-both names, however, plainly indicating its close and evident relationship with the birds of that family. The craw is feathered; and does not, I believe, protrude like that of the P. Brasiliensis or M. leucurus. It builds in trees, and the female was just beginning to lay in but of, at least, one year old. The old male-bird is of a uniform dusky plumage, and is seen behind. The adult female resembles the young of the same sex, but the breast is dark brown like that of the male. In precisely the same manner as was remarked in the case of the M. leucurus, these old females are present in birds, which I counted standing within a hundred yards of the tents, under which we were bivouacked, there was not a single one with the dark brown breast. From this circumstance I am led to conclude that the females of this species (as with the M. leucurus) acquire their full plumage late in life.

1. Buteo erverenotus.

Haliaëtus erythronotus, King, in Zoological Journal, vol. iii. p. 42

I obtained specimens of this hield from Chilor and the Eulland Islands, and Captain King who first described it, preserved his a specimens from Port Pomine, Lat. 37° 26′ in Tiern del Pueço. M. D'Orbigny states that it has a wide range over the provinces of La Plant, central Chile, and even Bolivir, but in this latter country, it occurs only on the mountains, at an elevation of about 12:000 feet above the sea. The same authors states, that it usually frequents open and dry countries; but as we now see that it is found in the dense and lumid forests of Chilor and Tierra del Fuego, this remark is not applicable. At the Falk-land Islands, it preys chiefly on the rabbits, which have run wild and abound over certain parts of the island. This bird was considered by Captain King as a Halikitus, but Mr. Gould thinks it is more properly placed with the Buzzards. Captain King gave it the appropriate specific name of replatemosts, and, therefore, as Mr. Gould observes, the more recent one of tricolor, given by M. D'Orbigny, must be passed over.

2. Buteo varius. Gould.

Buteo varius, Gould, Proceedings of the Zoological Society, Part v. 1837, p. 10.

B. vertice corporeçue supra intensi fusio, plumis falvo marginatis vel guttatis; primarii accumulatiique cinercii, linais muneroii fusici transrenim striatis; caudd cineral, linais angustis muneroii fusici transrenim stotalt); siagalla plumis fluencenti-ullo ad apiecm notatis; guld fuligimod; pectore fulvo, linad interrepth aigrescate a guld tondate circumdato; abdonine into lateribusque strunino et refleccio-lijaico varingatis; fusoribus crissque struminis linais transrenalibus anfractir refleccasi-fusico erantis; rottor apro; cord tursinyum olitosetis.

.ong. tot. 21½; alx, 16½; camle, 10; tarsi, 3½.

Cozon.—Head and back of neck umber brown, with edges of the feathers fringed with fulvous, (or buff orange with some reddish orange) and their bases white. Shoulders brown, with the feathers more broadly edged. Back the same, with the basal part of the feathers fulvous, with transverse bars of the dark brown. Tail bloishig gray, with numerous, narrow, transverse, faint black bars. Tail-coverts pale fulvous, with irregular bars of dark fulvous and brown. Wings: primaries blacksik gray, obscurely barred; secondaries and tertiaries more plainly barred, and thyped with fulvous. Wing coverts, dark umber brown, larged typed, and marked with large spots, almost forming bars, of pale fulvous. Under surface.—Chin black; throat and breast ochre yellow, with a narrow dark brown line on the shafts of the feathers, which, it these on the sides of the throat and breast expands into a large oral spot. Feathers on belty reddish brown, fringed and marked at base with the ochre yellow. Lining of wings ochre yellow, with numerous transverse bars of dark brown. Under-side of tail, inner web almost white, outer pale gray, with very obscure transverse bars. Thighs, solre yellow, with numerous signag transverse bars of pale reddish brown. Bill published; its brown; trais gambog yellow.

Form.—Fourth primary very little longer than third, and about half an inch longer than fifth. First rather shorter than seventh, and longer than eighth. Wings when folded reaching within two inches of the extremity of the tail.

Length of to	a .													214
														10
	folded													161
From tip of	benk to	within	a ante	rior e	edge of	nostri	il, mes	asured	in st	traight	line			700
Tarsi from so	les of f	eet to	middh	e of	knee je	oint								31
Middle toe, r	neasure	d from	busal	joint	t to tip	of cla	W							20

gonia, (January.)

3. Buteo ventralis. Gould.

Buteo ventralis, Gould, Proceedings of the Zoological Society, Part v. 1837, p. 10.

B. vertice corporeque intunà nitide fusici, planis devalibles purpuraientilori, primariis ingrist; candi fusici, linesi observirius encalitati manerosis, ad apiene meridië alloi; gald addonine medio crissoque struniavo-alloi; preturia corporique lateribus fusici addoninie fusici misque flaceccaticialis; favos notatis, moti in femoribus referentibus; tarsis per medium partem anticè planonis, rostro uirros cerd tarsingue flutis.

Long. tot. 23 unc.; alw, 15½; caude, 9½; tarri, 3½.

Canors.—Head, back of neck, back, and wing-coverts, umber hoven. Feathers on sides of throat edged with fulrous; those on lower parts of back with their basal parts marked with large white spots, edged with fulvous, but which do not show, until the feathers are utilled. Tail of the same dark hrown as the back, with many bars of pale brown, and extreme points tipped with dirty white. Tail-coverts same brown, with the more lateral ones marked with white and fulvous. Wings: primaries black, with the inner and basal webs brownis; secondaries and tertiraires brown, with obscure traces of paler

transverse bars. Under surface.—Chia almost white; throat and breast very pale ocher yellow, with narrow brown lines on the shaft of the fathers, which expand into large marks on the sides of the upper part of the breast, and into regular pates on those of the belly. Lining of wing white, with brown spots on the feathers near their tips, like on those of the belly. Thighs very pale ochre yellow, with transverse bars of pale brown, appearing like inverted wedge-formed marks, with the spec on the shafts. Under tail-coverts almost white; under side of tail pale gray, with darker gray bars on the inner side of shafts. Bill blueish black, with base of lower mandible and part of upper yellowsish. Taras pale yellow.

Form.—Fourth primary very little longer than either the third or fifth, which are equal. First nearly equal to the eighth. Extremity of wing when folded reaching within two inches and a half of the end of the tail.

				To .		In.
Total length				23	Tarsi	
Wing when fol	ded			153	Middle toe from joint to tip of claw .	3
Tail .				91	From extremity of beak to within nostril	20

Habitat, Santa Cruz, Lat. 50° S. Patagonia, (April.)

Mr. Gould remarks that "this species has all the characters of a true Butco, and will rank as one of the finest of this well defined group. In size it rather exceeds the Common Buzzard of Europe, which in its general style of colouring it somewhat resembles."

Sub-Fam.—FALCONINA, Vio.

FALCO FEMORALIS. Temm.
Falco femoralis, Tomm. Pl. Col. 121 mab; and 343 adult male.

Spix, Av. Sp. Nov. 1. p. 18.

This specimen was shot in a small valley on the plains of Patagonia, at Port Desire, in Lat. 744. It build is its nest in low baskes, and the female was sitting on the eggs in the beginning of January. Egg. 78 of an inch in longer diameter, and 14-in shorter; surface rough with white projecting points; colour nearly uniform dirty "wood brown," thickly freekled with rather a darker tint; general appearance, as if it had been rubbed in brown and. M. D'O'higya wupposed that Latitude 34' was the southern limit of this species; we now find its range three hundred and thirty miles further southward. The same author states that this falson prefers a dry open country with scattered bushes, which answers to the character of the valleys, in the plains near Port Desire.

ps. 5

TINNUNCULUS SPARVERIUS. Vieill.

I obtained specimens both from North and South Patagonia (Rio Negro and Santa Cruz), and Captain King found it at Port Patinnie in Tierra del Forgo. I saw it at Lima in Peru; and Mr. Macleay (Zoological Journal, vol. iii) sent specimens from Cuba. According to Wilson it is common in the United States, and Richardson says is northern range is about 54°. The Transacolus therefore, ranges throughout both Americas over more than 10° degrees of latitude, or 6420 geographical miles. It is the only bird, which I as saw in South America, that howered over one particular spot, in the same stationary manner, as the common English kestrel (Falso tissuescales, Lina.) is so frequently observed to do.

SUB-FAM .- CIRCINÆ.

1. CIRCUS MEGASPILUS. Gould.

Circus megaspilus, Gould, in Proceedings of the Zoological Society, Part V. 1837, p. 10

C. vertice corporque supra intensè fuecie, lined stremined a meriba supra codos al cociput tendente; los er referenti-fueco; primariis intensè fuscia ad basin cinersis, lineis nigris conceditis; condin techricibus albis; rectricibus intermediti cinersis, externis cineros-struminesi, omalbus lineis latis fuecis tremsererium notalis, linei ultima flatismi, quies surdich struminos; galla perceprus atraminos; faceo cartiegatis; corpore subtas struminos; plamis pectoris lateramque strid centrali fueci notalis; restru rigro; cert fuerispue flatis.

Long. tot. 22 unc.; rostri, 14; ala, 17; casala, 104; tarsi, 34.

Coloru.—Hend, back of threat, whole back, and wing-coverts umber brown, of a nearly uniform tata, and not very dark. From, over the notific, with few fulvous bristly feathers; over the eyes, extending backward, a pale almost pure white streak, which joins an irregular band, extending arcross the nape of the neck, from below our to ear, of brown feathers, edged with pale failvous, giving a streaked appearance to that part. The wing-coverts are just tipped with dirty white. Wings: primaries of the same brown as the back, the inner once assuming a gray tings; these, and the basal parts of the inner webs of all, are obscurely barred; secondaries and tertiaries of a paler brown than the intersequalar region. Tall gravish brown, with five well-defined hars.

about 3 of an inch wide, of the same brown, as the rest of the upper surface : extremities tipped with very pale dirty brown. Tail-coverts : upper ones brown, and the under ones white, with small brown spots on the shaft towards their extremities. Under surface. - Chin, pale fulyous, or other vellow. Breast, belly, thighs and under tail-coverts the same; the feathers on the lower part of the breast and on the belly have a dark brown mark along the shaft, which widens but very little towards the extremity: the brown on those on the upper part of the breast and on the throat is broader, and some of the feathers are of a darker fulvous, and as the dark brown of the back encroaches on each side, this part is much darker than the rest of formed from ear to ear, of short feathers of a more strongly pronounced fullyous tint, with a narrow brown streak on their shafts. Lining of wings, and flanks almost white, with transverse brown bars. Under side of tail pale gray passing into fulvous, with the terminal dark brown bars seen through. Bill, horn-coloured, with some white markings towards its base; tarsi bright vellow.

Form.—Third primary rather longer than fourth, second equal to fifth; first more nearly equal to the sixth than to the seventh. Wings reaching within an inch of the end of the tail. Feathers on thighs depend but little below the knee.

		-		In.		In.
Total length				22	Tari	31
Wings folded				17	Middle toe to end of claw	23
Tail .				10}	From tip of bill to nearest part of cere	

Habitat, Maldonado, La Plata, (July.)

This hawk was not uncommon on the grassy savannahs and hills in the neighbourhood of the Rio Plata. Mr. Gould remarks "that in size it fully equals the *Gircus arreginosus* of Europe, which it doubtless represents in the countries it inhabits. This species has a remarkable specific character in the lanceolate and conspicuous strings down its breast."

2. CIRCUS CINERIUS. Vieill.

Circus cinerius, Vicill. Ency. Meth.
Falco histrionicus, Quoy and Gaim. Voy. autour du monde, Plate 15.

My specimens were obtained at the Falkland Islands, and at Concepçion in Chile. M. D'Orbigny states that it is a wild bird; but at the Falkland Islands it 31

was, for one of its order, very tame. The same author gives a curious account of its habits: in a different manner from other raptorial birds, when it has killed its prey, it does not fly to a neighbouring tree, hat devours it on the spot. It roots on the ground, either on the top of a sand hilbck, or by the bank of a stream: it sometimes valks, instead of hopping, and when doing so, it has some resemblance in general habit to the Milotago climange. It preys on small quadrupeds, molliscous animals, and even inscerts; and I find in my notes, that I saw one in the Falkland Islands, feeding on the carrion of a dead cow. Although in these respects this Circus manifests some relation in its habits with the Polydovine, yet it has the elegant and soaring flight, peculiar to its family; and in form it does not depart from the typical structure. Mr. Good remarks that "we see in this elegant bird as perfect an analogue of the Circus epsness of Europe, as in the preceding species of the Circus regiones."

FAMILY. -STRIGIDÆ.

ATHENE CUNICULARIA. Bonap.

unicularia, Mol. Bosop. Am. Orni. I. 68. pl. 7. f. 2.

This bird, from its numbers and the striking peculiarities of its habits has been mentioned in the works of all travellers, who have crossed the Pumpas. In Banda Oriental it is its own workman, and excavates its burrow on any level spot of sandy soil; but in the Pampas, or wherever the Bizacaka is found, it uses those made by that animal. During the open day, but more especially in the evening, these owls may be seen in every direction standing frequently by pairs on the billock near their habitation. If disturbed, they either enter the hole, or, uttering a shuff larsk ery, more with a remarkably undulatory flight to a short distance, and then turning round, steadily gaze at their pursuer. Occasionally in the evening they may be heard hosting. I found in the stomachs of two which I opened the remains of mice; and I saw a small snake killed and carried away by time. Before I was naware, from the numbers of mice caught in my traps, how vastly numerous the small rodors are in these open countries, Left much surveying the contraction of the contr

may every day be observed in the Pampas; but in the northern hemisphere they inhabit the burrows of the Marnot or Prairie dog, instead of those of the Bizacaha; and it would appear that their food is chiefly derived from insects, instead of from small quadrupeds and reptiles. Mr. Gould says he has compared my specimens from La Palta and Chile, on opposite sides of the Cordillera, with those from Mexico and the Rocky Mountains of North America, and he cannot perceive the slightest specific difference between them.

Sub-Fam.—ULULINÆ. 1. Otus Galapagoensis. Gould

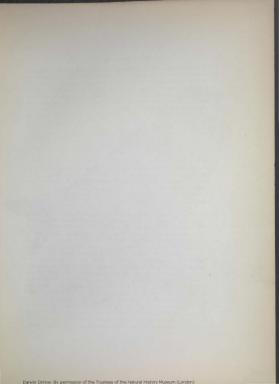
PLATE III.

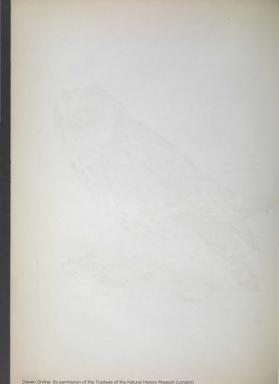
Otus (Brachvotus) Galapagoensis, Gould, in Proceedings of the Zoological Society, Part V., 1837, p. 10.

O, fuscià circa coalas fuliginosi; strigă naperciliari, planis meres tangustibus et circa angulum oris, quila d'alaci facialis margine, albis; vertice corporoque supra intende struminos fuscoque variegalis; primariis ad apiecem intende fuscio, ad basin struminos fuscionis; corpore subbas strumino, notis irreguluribus fuscisique fuscio ornato; femoribus terraimes chamosis relescenti-strumines; rontro wagudusque migris.

Long. tot. 13]; rostri, 1; alo, 11; cando, 6; tarsi, 2.

COLOUR .- Facial disc; plumose feathers immediately around the eyes, nearly black, tipped with glossy fulvous; those nearer the margin are white at their base, and only slightly tipped with a darker brown. Between the eyes a band of small fulvous feathers with a central streak of dark brown, passing backward, blends into the plumage of the nape. Back of head and throat streaked with fulvous and brown, the centre of each feather being brown, and its edge fulvous. Interscapular region and the feathers of the wing, coloured in the same manner, but the fulvous part is indented on each side of the shaft in the brown, giving an obscurely barred appearance to these feathers. Primaries brown, with large rounded marks of fulvous; those on the first feather being smaller, and almost white: wing-coverts brown, and but little mottled. Tail with transverse bars of the same brown and fulvous, the latter colour much clearer and stronger on the external feathers; in the central ones, the fulvous part includes irregular markings of the dark brown. Under surface. - Throat and breast, with center of each feather brown, edged with fulvous; the former colour being predominant. On the belly and under tail-coverts the brown coloured marks on the shafts are narrow, but they are united to narrow transverse bars, which form at the

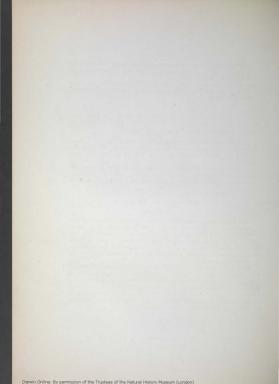






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Otus Galapagoensis.



points of intersection marked something like arrow-heads. The fulvous tint is here predominant. Downy feathers on thighs same fulvous colour as rest of body. Bill black.

Form.—Second primary scarcely perceptibly longer than the first, and fourth rather longer than first. Tarsi thickly clothed with short feathers to the root of the nails.

Total length	In. In. In. 130 Tarsi	
Wings	the second secon	
Tail . ,	6 Lion oh or over to mustace A	

Habitat, James Island, Galapagos Archipelago, (October).

Mr. Gould informs me, that "this species has most of the essential characters of the common short-eared owl of Europe (Strix brackyota), but differs from it, and all the other members of the group, in its smaller size and darker colourine."

The lesser proportional size of the fulvous marks on the first primaries, and on the tail, and the peculiar transverse brown marks on the feathers of the belly, easily distinguish it from the common short-eared owl. The specimen described is a mule bird.

2. OTUS PALUSTRIS. Gould.

Strix brachyota. Lath.

Specimens of this bird were obtained at the Palkhan Islands, at Santa Cruz in Patagonia, and at Maldonado on the northern bank of the Plata. At the latter place it seemed to live in long grass, and took to flight readily in the day. At the Palkhan Islands it harboured in a similar manner amongst low busbes. Mr. Gould stys, "So closely do the specimens brought home by Mr. Darvin, resemble European individuals, that I can discover no specific difference, by which there were be distinguished.

We have, therefore, the same species occurring in lat. 52° S. on the coast of South America, and in the northern division of the continent, according to Richardson, even as far as the sixty-seventh degree of latitude. Jardines says it is found in the Orkney islands (lat. 50°), and in Siberia; and that he has received specimens of it from Canton. M. D'Orbigny says it is found in the Sandwich and Marianne islands in the Pacific Ocean, and at Bengal in India. This bird, therefore, may be considered as a true cosmoploits.

Tirra arrenes

Strix rufices, King, in Zoological Journal, Vol. iii, p. 426,

I obtained a specimen of this hird from a party of Fuegians in the extreme southern islands of Terra del Fago. Orels are not uncommon in this country, and as small birds are not plentiful, and the lesser rodents extremely scarce, it at first appears difficult to imagine on what they feed. The following fact, perhaps, explains the circumstance: Mr. Dynoc, the surgon to the "Beagle," killed an owl in the Chonos Archipelago, where the nature of the country is very similar to that of Tiera del Fuego, and, on opening its stomach, he found its filled with the remains of large-sized crabs: I conclude, therefore, that these birds here likewise subsistic theirly on marine productions.

SUB.-FAM.-STRIGINÆ

1. STRIX FLAMMEA. Linn.

I obtained a specimen of a white owl from Bahia Blanca in Northern Patagonia, and Mr. Godd remarks concerning it, that he only retains the name of S. flammon provisionally, until all the white owls, from various countries, shall have been subjected to a careful examination. Mr. Godd suspecte, that when this is effected, the South American white owl will prove to be specifically distinct from that of Europe.

2. STRIX PUNCTATISSIMA. G. R. Gray.

Plate IV

S. supra nigricuas, flaco subnebulona, minute albo-punctatissium, moradi albó ad opieca planne, esjuncis; subtus fultas, fuecis interruptis nigricuatibus; candá dorso concolore, nigricuati-fueciati, opieca albó; disco fuetali custaneo-refo nigricuatis-nebulos circumdato, pogonisi internis albís, scapis nigris; podibus longis, infra gene plamosis; turo reliquo degictique subpiliosis.

Long. tot. 134; ale, 91; caude, 41; tarzi, 24;

Colour.—Head and feathers within facial disc, glossy ferruginous brown, those forming the margin of it, same coloured, with their tips dark brown. Back







Strix punctatifsima



35

of head and threat smoky brown, mottled with numerous small white dots, on the tips of the feathers. Beek and wing-covers the same, with the white spots larger and purer. Wings: primaries, same dark brown, mottled with dall cheaust red; the tip of each, with the exception of the three first, is marked with a triangular white spot, of the same kind with those over the rest of the body, but larger. Tail, transversely barred with brown and reddish fulvous, and the extreme points mottled with white. Under surface. Breast, helly and lining of wings, fulvous, mottled with brown;—the feathers being transversely barred with narrow brown lines. Under side of tail, pale gray, with well defined transverse bars of a darker gray. Short downy feathers on tarsi, of a brighter fulvous than the rest of the under surface.

Form.—Third primary rather longer than second; first equal to third. Wing, exceeding the tail in length by nearly one inch and a quarter. Short feathers on the tarsus, extending about one-third of its length, below the knee. Tarsi, elongated. Toes and lower part of tarsi, with few scattered brown hairs.

				In.		n.
Total length				13]	Tarsi 2	
					Tip of beak to rictus 1	
Tail				41	Middle toe, from root of claw to base . 1.	J.

Habitat, James Island, Galapagos Archipelago, (October.)

I am indebted to Mr. G. R. Gray for the description of this species, which is deposited in the British Museum. Only one specimen was obtained during our visit to the Galapagos Archipelago; and this formed part of the collection made by the direction of Captain FitzRoy.

This owl is in every respect a true Strix; it is fully a third less than the common species of Europe, and differs from it in many respects, especially in the darker colouring of its plumage. The colouring of the Plate is not perfectly accurate in its minuter details.

FAMILY .- CAPRIMULGID Æ.

SUB-FAM .- CAPRIMULGINÆ.

1. Caprimulgus bifasciatus. Gould.

Caprimulgus bifasciatus, Gould, in Proceedings of the Zoological Society, February 1837, p. 22.

C. capite nigro fusco et fulcescente ornatus; condi albo bifunciath, fusció terminali latá; primá anguatá; primariis nigrescentibus fasció anguatá albá ad medium; alis spaciis macadá albá notatis; gulture handá albá; seconduriu tectricibusque aharam maculá fulcescente ad apieem; crisso pallidê rufescente; rostro pedilinaque fuscis.

Long. tot. unc., 97; ale, 64; cande, 5; tarsi

Front and back of head gray, mottled with black and with little fulvous. The latter colour more abundant, and in larger markings in the interscapular region, and on the wing-coverts. The black markings give a somewhat streaked appearance to the back of head and interscapulars. On the back of throat the fulvous tint is so much pronounced, that a collar is formed which is continued under a white one round the breast. Wings: primaries brownish-black; four external ones, with a large white mark, forming a band, at about one-third of their length from their extremities: these white marks are edged with fulvous, and the part on the outer web of the first primary, is wholly so coloured. The other primaries are marked with reddish brown, as are the secondaries and tertiaries, the marks becoming more numerous and smaller, and the colours more mottled, nearer the back. Tail: upper tail-coverts and two central feathers of tail marked like those on the back; the black, however, forming narrow interrupted transverse bars. The pair next to these central ones have near their extremities a large white mark, but only on the inner shaft. In the three succeeding pairs, the white spot extends on both sides of the shaft, and in each pair increases somewhat in size; so that in the external pair, the white spot is merely bordered with a very narrow, faint margin, of brown and fulvous. At about half their length, all the feathers, with the exception of the central pair, have a smaller white mark, but only on the inner side of the shaft. This mark is transverse, in the form of a band, and the white blends into fulvous on the edges of the webs. Outer web of these same external feathers, are transversely barred with black and fulvous. Under surface. - Chin, breast, belly, and lining of wings, dirty fulvous, with numerous 100 May 20 - 12 may

narrow, irregular, transverse bars of brown. Throat with white collar, beneath which the fulvous tint is predominant, forming a kind of under collar, which is continued round the whole neck. Under tail-coverts fulvous,—tail itself appears almost black, with a great terminal white band, and a narrower one at about half its length.

Wings, an inch and a quarter shorter than the tail. Second primary, scarcely perceptibly longer than the third; the first about an eighth of an inch shorter than the second, and * the longer than the fourth. Feathers on wing, with the outer webs, slightly excised.

				In.			100
Total length				93	Tarsi		70
Wing folded				61	From tip of beak to rictus		1
Tail					Of middle toe without the claw		10

Habitat, Valparaiso Chile, (August)

This species frequents the mountains of central Chile. When bivouacking one night on the Bell of Quillota, at an elevation of 6000 fect above the sea, I heard a gentle, plaintive cry, which I was told was made by this bird. It is regarded with superstitious dread by many of the lower orders.

Mr. Gould observes, that "this species has a strong resemblance, at the first glance, with the Caprinalgus Europeaus, but may be readily distinguished by its shorter wing, more lengthened trais, by a conspicuous white band across the base of the tail, and by all these feathers, except the two middle ones, having another white band near the tip." Mr. Gould then adds, as "I am quite undecided to which of the sub-genera this and the following species should belong. I leave them for the present in the restricted genus, Gapriangus, although I certainly perceive in it many points of affinity to the group which inhabits the United States of North America."

2. CAPRIMULGUS PARVULUS. Gould.

Caprimulgus parvulus, Gould, Proceedings of the Zoological Society, February 1837, p. 22.

C. capite intensé fusco, guttis minutis cinercia ornato; vittle nyfi cervicena cingrate; gutture scapularibanque ad marginem, secendariis nd apicem stramincis; puetror et abdomna linisis fuscis transcersis; primariis ingresectatibos, tribus faccis incuqualibos pallide referencibus c caudá fuscis pallide fulrescentibus et fuscis incundente con consecuence de con

Crown of head gray, with black longitudinal streaks. Back of neck with a fulvous ring, which extends round the front beneath one of white, as in the C. bifas-

ciatus. Back, dull gray. Interscapulars, with the central part of each feather, black, terminating in a point; the outer part of the web being broadly fringed with a very pale fulvous, the inner with gray. Wings; primaries bown, with fulvous marks, forming three irregular transverse bars, which are scarcely visible when the wing is closed. Tail and upper tail-coverts, dull coloured, very obscurely marked with transverse bars of gray and fulvous, of different degrees of darkness. Under argiace—Throat white, edged with fulvous on lower side. Breast, belly, and under tail-coverts, fulvous, with numerous very narrow transverse bars of brown. The pale fulvous marks, forming interrupted bars, are more plainly seen on this than on the upper side of the tail.

Third primary, very little longer than second, and second than first. First rather longer than fourth. Extremities of wings reaching within an inch and a quarter of end of tail. End of tail more rounded than in last species.

				In.		In.
Total length				73	Tarsi	2
Wings				3	Middle toe, from tip of claw to joint of foot	30
Tail .				4	From tip of beak to rictus	1

Habitat, La Plata, (September).

This species is not uncommon on the wooded banks of the Parana, near Santa Pé. If disturbed, it rises from the ground, in the same inactive manner as the European species. I saw one alight on a rope diagonally, but not so completely in a longitudinal position as does the C. Europeau, nor transversely as other birds. Mr. Gould observes, that "this geotacker is full at blird less than the Caprinulgus Europeau, and is remarkable for the uniformity of its markings, having no distinct white bars, or marks, either on the wings or tail."

FAMILY .- HIRUNDINIDÆ.

1. PROGNE PURPUREA. Boie.

Hirundo purpurea, Wile.

My specimens were obtained at Monte Video, (November) and Bahia Blanca, 30° S. (September) how much further southward this species extends I do not know. Jardine says, that in North America it migrates during summer as fir as the Great Bear Lake, in Lat. 60° N.; it is mentioned by M. Audubon, at New Orleans, 30° N., and by Mr. Swainson, at Pernambusco, in 30° S; we may, there-







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Progne modestus.



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fore, conclude that it ranges throughout both Americas, but it is not found in the Old World. Whoson describes this bird as a great frourtie with the inhabitants of North America, both European and Indian, who erect boxes and other contrivances near their houses for it to build in. At Babha Blanca, the framelse were beginning to lay in September, (corresponding to our March): they land execusted deep holes in a cliff of compact curth, close by the side of the larger burrows inhabited by the ground parrot of Patagonia, (Putteeura Patagonica,) I noticed several times a small flock of these birds, pursuing each other, in a rapid and direct course, flying low, and screaming in the manner so characteristic of the English Swift, (Hermodo Japas, Linn.)

2. PROGNE MODESTA. Gould.

PLAYS V

Id, in Proceedings of the Zoological Societ

P. nitide carulescenti-nigra

Long. tot. 6 unc ; alw, 51; caude, 21; tarri,

The upper and under surface has not so strongly a marked purple shade, as in the P. purpurea. The primaries and feathers of the tail, however, have a greenish gloss, perhaps slightly more metallic.

Tail not so deeply forked as in P. perparea, which is owing to the two external feathers on each side not being so much predouged and bent outward, as in that species. Nostrils of less size than in the latter, although the beaks differ but little. Claws and feet are much less strong, than might have been anticipated, even proportionally to the less dimensions of this species compared with the P. perspect.

						Inches.		Inches.
Total length						6	Tarsi	T.
Wings						5]	Middle toe from tip of claw to joint	315
Tail						27		

Habitat, James Island, Galapagos Archipelago, (October).

Male.

This swallow was observed only on this one island of the group, and it was there very far from common. It frequented a bold cliff of lava overhanging the sea. Had not Mr. Gould characterized it as a distinct species, I should have considered it only as a small variety, produced by an uncongenial site, of the Progue purpora. I can preceive no difference whatever from that bird,

excepting in its less size, slenderness of limbs, and less deeply forked tail; and the latter difference may perhaps be owing to youth.

1. HIRUNDO LEUCOPYGIA. Licht.

My specimens were obtained at Port Famine, in Tierra del Fuego, (February), and at Valparaiso, in Chile, (August to September). At Port Famine they build in holes in a cliff of earth. Mr. Gould says, "were it not for the bare legs of this little Martin, I should have some difficulty in discriminating between it and the one so well known as a summer visitor in our island."

2. HIRUNDO FRONTALIS. Gould.

H. vertice, plumis auricularibus, dorso et lumulá pectorali nitidê ceruleo viridescentibus, notá albá supra nares, gulá corporeque subtus albicantibus, crisso niveo, alis caudáque fuscis viridá tinetis, rostro nigro, pedibus intensê fuscis.

Long. tot. 42 unc. alo, 42; canda, 2; tarei, 4.

Upper surface, with a greenish blue metallic gloss; which can faintly be perceived on the primaries and on the rail feathers. The short feathers over each nostril white, thus forming two small white marks; those over the ridge of bill pale brown, giving together the appearance of a narrow white band over the upper mandible. Entire under surface and lining of wings pure white. Tays rather darker than in R. Lecoupgie.

Very slightly larger than H. leucopygia; upper mandible rather broader.

					Inches.								Inches.
Total length					43	Tail .							2
Wings					42	Tarsi							4

Habitat, Monte Video, (November).

Mr. Gould says, "this species is closely allied both to the common martin, and to the last species if from the former bird, however, its bare legs at once distinguish it, while it differs from the latter in being rather harge in size, in baving an obscare white mark on the forchead, at the base of the bill, and in having the metallic lastre of the upper surface deep steel green, instead of purple, which is the prevailing colour of both Hiroudo lexerograph and H. arbier."

It is abundant on the northern bank of the Plata, and more common than the H. purpurca, which frequents the same localities. It probably replaces on the eastern side of the continent, the H. leucopygia of Chile. 41

3. HIRUNDO CYANOLEUCA. Vieill.

It is nearly allied to the two latter species, but is readily distinguished from them by the absence of the white rump. I procured specimens in September, both from Valparaiso, and from Bahia Blanca (North Patagonia). At the latter place it built in holes in the same bank of earth with P. purpurea.

CYPSELUS UNICOLOR. Jard.

C. unicolor. Jard, et Selly, Illust. Ornith. pl. 83

I obtained a specimen of this bird from St. Jago, Cape de Verd Islands. (September).

It more resembled a swallow than a swift in the manner of its flight. I only saw a few of them. Insects occur so scantily over the bare and parched plains of basaltic lava, which compose the lower parts of the island of St. Jago, that it is surprising how these birds are able to find the means of subsistence.

FAMILY .- HALCYONIDÆ.

HALCYON ERYTHRORHYNCHA, Gould, Proc. Zool. Soc. 1837.

Alcedo Senegalensis var. β , Lath

In January, during the first visit of the Bengle to St. Jago, in the Cape de Verd Islands, these birds were numerous. But in our homeward voyage, in the beginning of September, I did not see a single individual. As Mr. Gould informs ut is an African species; it is probably only a winter visiant to this archipelago. It lives in numbers in the arid valleys in the neighbourhood of Potro Payas, where it may be generally seen perched on the branch of the easter oil plant. I opend the stomachs of several, and found them filled with the wing cases of Orthopterous insects, the constant inhabitants of all sterile countries; and in the craw of one there was part of a lizard. It is tame and solitary; its flight is not swift and direct like that of the European kingfabler. In these respects, and especially

in its abundance in dry rocky valleys where there is not a drop of water, it differs widely from the habits of the allied genus Alcedo; although certainly it abounded more in those valleys where streamlets occurred. This Halcyon was the only brilliantly coloured bird which I saw on the island of St. Jago.

1. CERYLE AMERICANA, Boie

Alcedo Americana, Gmel.

This Kingfisher is common on the banks of the Parma. It frequents the borders of lakes and rivers, and stiting on the branch of a tree, or on a stone, it thence takes short flights, and dashes into the water to secure its prey. Its manner of flying is neither direct nor rapid, which character is so remarkable in the flight of the European species; but it is weak and undulatory, and resembles that of the soft-billed brids. It often arrests itself suddenly in its course, and hovers over the surface of the water, preparatory to darting on some small fish. When seated on a twijt it constantly devates and depresses its tail; and as might have been expected from its figure, it does not sit in the still upright position so peculiar to the European Kingfisher. Its note is not unfrequently uttered: it its low, and like the clicking together of two small stones. It was informed that it builds in trees. The internal conting of the stonesh is of a fine orange colour. Mr. Gould has seen specimens of this bird from Mexico: it enjoys, therefore, a very wide range.

2. CERYLE TORQUATA, Bonap.

Alerdo torquata. Gmel. Ispida torquata, Sirein.

This bird is common in the south part of Chile, in Chiloe, the Chonos Archipedago, and on the whole west cosst, as far as the extreme southern parts of Tierra del Pergo. In these countries, it almost exclusively frequents the retired bays and channels of the sea with which the land is intersected; and lives on marine productions. I opened the stomech of one, and found it full of the remains of crustacce, and a part of a small fish. I to occurs likewise in La Plant, and is very common in Brazil, where it haunts fresh water. It is said (Det. Cliss. 47Hst. Not.) to occur in the West Indian islands; it has, therefore, a wider range (from the equatorial region to the neighbourhood of Cape Horn) than the Crypte Americans. ns 4

FAMILY.—MUSCICAPIDÆ. Vieill.

SAUROPHAGUS SULPHURATUS. Swains.

Lanius sulphuratus. Gutel.

Tyrannus magnanimus. Vicill. Ency. Meth. p. 850.

Tyrannus sulphuratus. D'Orb. et Lafr. Mag. de Zool. 1837, p. 42.

The habits of this bird are singular. It is very common in the open country, on the northern banks of the Plata, where it does not appear to be a bird of passage. It obtains its food in many different methods. I have frequently observed it, hunting a field, hovering over one spot like a hawk, and then proceeding on to another. When seen from a short distance, thus suspended in the air, it might very readily be mistaken for one of the rapacious order; its stoop, however, is very inferior in force and rapidity. At other times the Saurophagus haunts the neighbourhood of water, and there, remaining stationary, like a kingfisher, it catches any small fish which come near the margin. These birds not unfrequently are kept, with their wings cut, either in cages or in court-vards. They soon become tame, and are very amusing from their cunning odd manners, which were described to me, as being similar to those of the common magnic. Their flight is undulatory, for the weight of the head and bill appears too great for the body. In the evening the Saurophagus takes its stand on a bush, often by the road-side, and continually repeats, without change, a shrill and rather agreeable cry, which somewhat resembles articulate words. The Spaniards say it is like the words, "Bien te veo" (I see you well), and accordingly have given it this name.

Muscivora Tyrannus, G. R. Gray.

Muscicapa Tyrannus, Se.

Tyrannus Savana, Vieill, Bosop, Am, Orn, pl. 1, f. 1.

This species belongs to Mr. Swainson's genus Milvulus (more properly Milvilus,) but which name Mr. G. R. Gray has altered to Muscivora as the latter was proposed for Muse. forficula as far back as 1801, by Lacepède.

It is very common near Buenos Ayres; but I do not recollect having seen many in Banda Oriental. It sits on the bough of a tree, and very frequently on

the ombu, which is planted in froat of many of the farm houses, and thence takes short flights in pursait of insects. From the remarkable structure of its tail, the inhabitants of the country call it seissor-tail; a name very well applied from the manner in which it opens and shats the foreked feathers of its tail. Like all birds thus constructed, [of which the frigate bird offers a most striking excample), it has the power of turning very shortly in its flight, at which instant it opens and shuts its tails, sometimes, as it appears, in a horizontal and sometimes in a vertical plane. When on the wing it presents in its general appearance a caricature likeness of the common house swallow (Hirnado rustico). The Museivom, although unquestionably belonging to the family of Muscicapaids manifests in its habits an evident relationship with birds of the fissirostral structure.

SUB-GEN. PYROCEPHALUS, GOULD.

Muscicapa. Auct. Muscipeta. Cuv. Tyrannula. Swain.

Rostrum capite brevius, rectum, depressum, basi setis numeronis nigris obsessum; mandibuli appriore emarginati, inferiorem obtegente; maribus rotundatis patulis. Caput suberistatum. Alse longe; renige prima secundum tertinampse longisismus suberquales fere aquante. Tursi mediocres, anticè seutellati; digitis lateralibus inaqualibus, exteriore longiore. Cada suedioris quadrata.

Mr. Gould observes, that "the males of nearly all the members of this group (with may be considered either as a distinct genus or sub-genus of Myiobius), have the crown of the head and greater part of the under surface searlet. Four species were obtained.—Pgrocephalus parvirostris, (Gould), and Muscicupa coronata, (Auct.), may be taken as types.

1. Pyrocephalus parvirostris. Gould.
Piate VI.

Le Churrinche, Azara. No. 177.

P. suprà fuscus; capite et subtus nitidè puniceis; rectricibus exterioribus tectricumque et secundariorum apicibus grisco-marginatis.

Long. tot. 5 % une.; ale, 13 4; cande, 2 4; tarsi, 4; rost. 4;

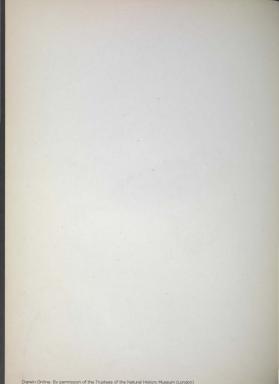
Crown of the head, crest, and all the under surface, bright scarlet; the remainder



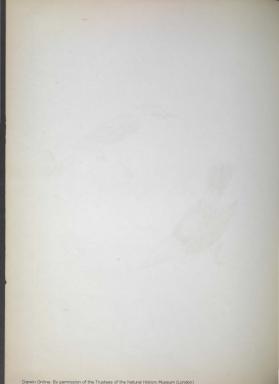




Pyrocephalus parvirostris.

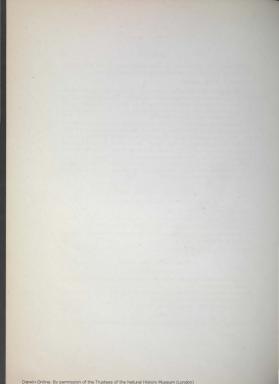








Pyrocephalus nanus.



The state of the s

of the plumage, deep brown; the outer tail-feathers on each side, and the edges of the secondaries and wing-coverts, margined with grey.

Habitat, La Plata, (October.)

This species differs from Pgr, corants or Miniegas coronata, of authors, chiefly into size; in other respects it is very similar. The admeasurements of the latter, for comparison (as given me by Mr. G. R. Gray), are: total length, δ inches and δ lines; bill, between θ and to lines; wings, δ inches and δ lines: tall, δ inches and δ lines; this, δ or δ lines.

During the summer, this bird was common both near Buenos Ayres and Malonodo; but at the latter place, I did not see one in the months of May, Malonodo; but at the latter place, I did not see one in the months of May, Malonodo and the summer from Brazil. The birds of this not the allied genera, correspond very closely in their habits to certain of the Sylviade of Europe; some of the species frequenting bashes, like the black-cap, (Sylvia strivorgilla); others more usually the ground, as the robin (Sylvia subscule) or bedgesparrow (Accestor modularis). Another group (Synallaxia, §v.) represent those European Sylvia, which frequent reeds.

2. Pyrocephalus obscurus. Gould.

P. lividus rufotinetus; præcipuè in fronte ventreque.

Long. tot. $5\frac{a}{12}$ unc. ; also, $3\frac{a}{12}$; cauda, $2\frac{a}{12}$; tarsi, $\frac{1}{12}$; rust. $\frac{a}{12}$

All the plumage chocolate-brown, tinged with red, the latter colour predominating on the forehead and lower part of the abdomen; bill and tarsi, black.

A single specimen was obtained, and it would appear to be either an immature bird or a female.

Habitat, Lima, Peru. (August.)

3. Pyrocephalus nanus. Gould.

PLATE VII.

P. fuscus; rectricum exteriorum marginibus omniumque et sècundariorum apicibus nitidè griseo-brunneis.

Femina, brunnea; gutture grisco-albo; corpore subtus pallide flavescente; pectoris laterumque plumis in medio brunneo-striatis.

Long. tot. 411 unc.; ala, $2\frac{1}{10}$; canda, $2\frac{1}{12}$; tarsi, $\frac{3}{10}$; restri, $\frac{3}{12}$

Male.

Crown of the head, crest, and all the under surface, scarlet; back, wings, and

tail, sooty-brown; the external margin of the outer tail feathers, and the tips of all, light greyish brown; bill and tarsi, black.

Female

All the upper surface, wings, and tail, brown; throat, greyish white; the remainder of under surface, pale buff, the feathers of the chest and flanks, with an obscure fine stripe of light brown down the centre.

Habitat, Galapagos Archipelago. (September.)

There is nothing remarkable in the habits of this bird. It frequents both the arid and rocky districts near the coast, and the damp woods in the higher parts of several of the islands in the Galapagos Archipelago.

4. Pyrocephalus dubius. Gould.

P. minor, lividus; fronte, superciliis corporeque subtus stramineis; tectricibus stramineo marginatis.

Long. tot. 41 une; ala, 22 canda, 12; tarsi, is; rost.

Forehead, stripe over the eye, and all the under surface pale buff; back of the neck and upper surface chocolate brown; greater and lesser wing coverts margined with buff.

Habitat, Galapagos Archipelago, (September).

From the appearance of this bird when alive, although closely resembling P, assue, Inettrained no doubt that it was a distinct species. Mr. G. R. Gray informs me that there is a specimen of a male in the British Museum, which differs from the male of the precedent species, in having the upper colour of a decided to brown, and the external margins of the outer tail feathers and tips of the secondaries rather reddish white: also in size as stated by Mr. Goall.

Mylobius. G. R. Gray.

Tyrannula. Swains.

Mr. Gould had adopted for the following species Mr. Swainson's generic appellation of Tyrunsusli, but Mr. G. R. Gray has pointed out, that as Tyrunnulas was proposed and published eleven years before, namely in 1816, by Vieillot, it becomes necessary to change the former name, and therefore he proposes Myliobius.

1. Myiobius albiceps. G. R. Gray.

Museipeta albiceps. D'Orb. et Lafr. Mag. de Zool. 1837, p. 47.

This bird is not uncommon in Tierra del Fuego, and along the western coast of the southern part of the continent, where the land is covered with trees: it is occasionally found near Valparaiso in central Chile; and likewise in Bands Oriental on the banks of the Plata, where the control yis open, from all of which places I procured specimens. At Port Famine and in the islands of the Choonal Archipelago, it inhabits the gloomiest recesses of the great forests. It generally repeats a very plaintive, gentle whistle, in an uniform tone. The sound can be head at some distance, yet it is difficult to perceive from which quarter it proceeds, and from how far off; and I remained in consequence, for some time in doubt, from what bird it proceeded.

2. Myiobius auriceps.

Tyrannula auriceps. Gould, MS.

M. rufus; capite cristato nitide flavo; plumarum apicibus brunneis; alis brunneis, secundariurum margiuibus tectricumque apicibus rufu; caudė pallide brunned, plumarum esternarum margiuibus externis pallidioribus; gutture corporeque subtus pallide flarescenti-albis; plumis singuilis fascié centrali brunned.

Long. tot. 5 % unc; ala, 2 % canda, 2 % tarri, 2 rost. 4:

All the upper surface rufous; the basal portion of the coronal feathers yellow; at ail uniform light brown, the external margin of the outer feathers lighter; wings brown, the external margin of the secondaries and the tips of the greater and lesser wing-correct rufous; throat and all the under surface pale buffy white, each feather having a brown mark down the centre; bill brown; feet black.

Habitat, Buenos Ayres, La Plata, (August).

This bird is about the size of a sparrow. It is nearly allied to Tyrannula ferruginea of Swainson and M. cinnamonea of D'Orbig. and Lafr.

3. Myiobius parvirostris.

M. supràrufobrunneus; pileo, muchă humerisque obscurè olivaceo-brunneis; alis brunneis, primariarum et secundariarum marginibus exterius angustè tectricumque laté ferrugineis; caudă guttureque grisco-brunneis; pectore abdomineque flavescenti brunneis

ong. tot. 449 wac.; ala, 25; canda, 25; tarri, 5; rost. 5

Crown of the head, back, of the neck, and shoulders, dark olive brown; back, and upper nail coverts rudous brown; with shown; the external edges of the primaries and secondaries finely, and the greater and lesser wing coverts broadly margined with feruginous; tall uniform greyish bown; throat brownish grey; chest and aldomen sandy brown; upper mandible dark brown; under mandible vellowish brown; fixed backsish brown.

Habitat, Tierra del Fuego, Chile, and La Plata.

This bird inhabits the forests of Tierra del Fuego, and as I procured specimens of it in the beginning of winter (June), it probably remains throughout the year in the extreme southern part of South America. Other specimens were procured on the banks of the Plata, and near Valparaiso in Chile; it has therefore a wide range.

4. Myiobius magnirostris.

Tyrannula magnirostris. Gould, MS.

M. Farm. Suprà olicaeco-brunnea; caudá brunneá; rectricum externarum marginibus grisco-brunneis; gutture pectoreque olicaeco griscis; abdomine caudæque tectricibus inferioribus pallidê flavis; alis saturatê brunneis, secundariis tectricibusque late grisco marginatis.

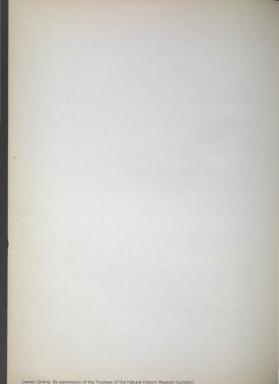
ong tot. 5 1; ala, 2 1; conda, 2 1; tarni, 11; rost. 1

Crown of the head and back olive brown; tail brown; the external margius of the two outer feathers greyish brown; throat and chest olive grey; abdome and under tail coverts very pale citron yellow; wings dark brown; secondaries, greater and lesser wing coverts broadly margined with grey; bill and feet black.

Habitat, Chatham Island, Galapagos Archipelago (October).

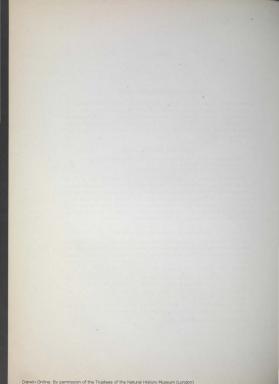
This bird and the Pyrocephalus nanus, inhabit the same island. Not very uncommon.







Tyrannula magnirostris.



ens 4

GENUS .- SERPOPHAGA. Gould.

Rastrun capite untils bereius, rectum, underpressum; tomis rectis; mandibuls puperiore nekomergiantis unrisha banilkus, lateraldus, pitis mollibus anticè cersi partim tectis. Ain breue, concure, remige quartil longissimi. Canda longissend, abertandata. Tersi melicires symmis duris usundati; digitis partiri, posticori mediano breviere, lateralibus equalibus, exteriore cun mediano unque ad articulum privene consultar.

1. SERPOPHAGA PARULUS. Gould

Muscienpa parulus, Kislitz, Mem. L'Acad. Imp. des Sci. St. Peters. 1831. 1. p. 190. Pl. 9. Sylvis Bloxami, Gray's Zool. Minc. 1831. p. 11. Calicivora narulus, Morbio, & Latr. Mar. de Zool. 1837. p. 57.

This bird is common in central Chile, in Patagonia, and although found in Tirnde of Puego, it is not numerous there. Its specific name is very well chosen, as I saw no bird in South America whose habits approach so near to those of our tom-tits (Pame). It frequents bashes in dry places, actively hopping about them, and sometimes repeating a shrill ery; it often moves in small bolies of three and four together. In August I found the nest of one in a valley in the Cortillera of central Chile; it was placed in a bush and was simply constructed.

2. SERPOPHAGA ALEO-CORONATA. Gould.

S. supra olivacco-brunnea, subtus pallidò flava; pileo nigrescenti brunneo, in hoc plamarum basibus linedque supra oculos albis; alis nigrescenti brunneis, primariis angustò olivacco marginatis, tectricibus latò olivacco-grisco marginatis, gutture grisco.

ong. tot. 43; alor, 2; cander, 2; tarri, 4; rost. 4;

A stripe of white from the nostrils over each eye; crown of the head brown, the base of all the feathers pure white; back of the neck, lack and upper tail and coverts olive brown; wings blackish brown, the external edges of the primaries finely margined with olive, and the greater and lesser wing covertslargely tipped with olive grey; tail uniform brown; throat grey; abdomen and under tail coverts pale circum yellow; bill and feet brown.

Habitat, Maldonado, La Plata, (June).

This bird, like the last species, generally moves in very small flocks. Its habits, I presume, are also very similar; for I state in my notes that it closely approaches to our tit-mice in general manners and appearance.

3. Serpophaga nigricans. Gould.

Sylvia nigricans, Vieill.

Tachuris nigricans, D'Orbig, & Lafr. Mag. de Zool, 1837, p. 55.

Le Petit Tachuris noirktre, Acars, No. 167.

This bird is common in the neighbourhood of Maldomado, on the banks of the Plata. It generally frequents the borders of lakes, ditches, and other moist places; but is related in its general manners with the last species. It often alights on aquatic plants, growing in the water. When seated on a twig it occasionally expands its tail like a fan.

SUB-FAM.-TITYRANÆ. (PSARIANÆ. SIC.)

Pachyramphus, G. R. Gray.

PACHYRAMPHUS ALBESCENS.
 Pachyrhynchus albescens, Gould, MS.

P. olivaceo-griseus; alis nigrescenti brunneis, albescenti marginatis; gutture corporeque subtus griseo-albis; alarum tectricibus inferioribus pallidè sulphureis.

Long. tot. $5\frac{1}{12}$ unc.; also, $2\frac{1}{12}$; cauds, $2\frac{4}{12}$; tarsi, $\frac{8}{12}$; rost. $\frac{7}{12}$.

Head and all the upper surface olive grey; wings blackish brown, the coverts and secondaries broadly margined with dull white; primaries narrowly margined with greyish white; tail blackish brown, the external web of the outer feather white; under surface of the shoulder pale sulphur yellow; throat and under surface greyish white; bill and feet black.

Habitat, Buenos Ayres.

The generic name of Pachyrhynchus Spix, is changed by Mr. G. R. Gray, to Pachyramphus, as the former word is used in entomology.







Pachyramphus albescens.









Pachyramphus minimus.



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2. PACHYRAMPHUS MINIMUS.

Pachyrhynchus minimus, Gould, MS

P. rufo brunneus; capite guttureque brunneo-nigris; plumarum basibus albis; alis caudáque brunneis, plumis flavescenti-albo marginatis; colli lateribus, fasciá pectorali hypochondriisque fulcis; jugulo ventreque pallide flavescentibus.

Long. tot. $3\frac{1}{12}$; also, $1\frac{1}{12}$; canda, $1\frac{1}{12}$; tarri, $\frac{1}{12}$; rost. $\frac{1}{12}$

Crown of the head, sides of the face and throat blackish brown, each feather white at the base; back of the neck black, and upper tail coverts refous brown; wings and tail dark brown, each feather mangined with sandy white sides of the neck, under surface of the shoulder, hand across the cheat and flanks reddish fawn colour; lower part of the throat, and centre of the abdomen very pale buff; bill and feet blackish brown.

Habitat, Monte Video, (November).

SUB-FAM.-FLUVICOLINÆ, SWAIN.

ALECTURUS GUIRAYETUPA. Vieill. Dict.

Muscicapa paalura, Temm., Pl. Col. t. 286 and 2:
——risoria, Fieill., Gal. des Ois. Pl. 131.
Yetapa paalura, Lem., Tr. d'Orn. i. p. 387.
Le Guirayetupa, Acaro, No. 226.

This bird is not uncommon on the open grassy country near Maldonado on the banks of the Plata. It sits generally on the top of a thistle; from which it makes short flights and catches its prey in the air. The two long feathers in its tail appear quite useless to it. It sometimes feeds on the ground. In the stomach of one which I opened there was a swifer [Lowcosh], and some Colcountrn.

1. LICHENOPS PERSPICILLATUS. G. R. Gray.

Sylvia perspicillata, Gasel.

(Enanthe perspicillata, Vicill.

Ada Commersoni, Less.

Paradicilla bases and Section No.

Perspicilla leucoptera, Secoins., Nat. Libr. x. Flyc. p. 105, Pl. 9. Fluviola perspicillata, HOrb. & Lofr., Mag. de Zool. 1837, p. 59.

Le Bee d'arrent, Azara, No. 228.

This bird belongs to the sub-genus, Perspicilla, of Mr. Swainson; but as Mr.

G. R. Gray has pointed out that Commerson had previously considered it the type of his geous, Eckenopy, we have been induced to prefer the latter as the oldest name. It is common in the neighbourhood of the Plata, and across the Pampas, as far as Mendora on the eastern foot of the Andes; it has not, however, crossed those mountains and entered Chile. It usually sits on the top of a thistic, and like our common fly-catchers (Maccioung grinols), takes short flights in pursuit of insects; but does not, like that bird, return to the same twig. It feeds, also, occasionally on the turf: in the stomach of some which I opened, I found Coleopterous insects, chiefly Corculoindie. Beak, eyedle, and iris, beautiful primose yellow.

2. LICHENOPS ERYTHROPTERUS. Gould.

PLATE IX

L. suprà nigrescenti-brunneus, plumis rufo-marginatis; primariis secundariisque custaneis, apicibus pogoniaque externæ dimidio apicali brunneis; gutture corporeque subtus cervinis; rectore brunneo-marginato.

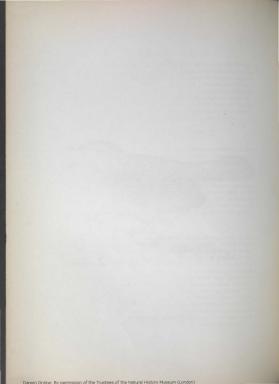
Long. tot. 6 unc.; alv, 3; cambr, 21; tarri, 1; rostri, 2;

All the upper surface and tail blackish brown, each feather anargined with rufous, primaries and secondaries reddish chesnut, their tips and their external webs for half their length from the tip, brown; tertiaries, greater and lesser wingcoverts dark-brown, each feather margined with reddish buff; throat, and all the under surface, favor colour; the chest spotted with brown; base of the bill, and chiefly of the lower mandible, as well as the iris, bright yellow; eve-lid, blackish vellow; seek, dark brown.

Habitat, Banks of the Plata.

This bird is not very common. It frequents damp ground, where ranks grow, on the borders of lakes. It feeds on the ground and wealts. It is certainly allied in many respects with the foregoing species, but in its power of walking and in feeding on the ground, there is a marked difference in habits. As it has lately been described (Swainson's Nat. Libr. Ornith. x. p. 103.) as the female of the Lepzigiellates, I will here point out some of its chief distinguishing characters. Its beak is slightly more depressed, but with the ridge rather more plainly promounced. In the Lepzigiellates, the upper mandible is entirely valled, excepting the apex; in the Lepzighengters, it is entirely pale brown, excepting the apex; in the Lepzighengters, it is entirely pale brown, excepting the apex; in the fact of the control of the control

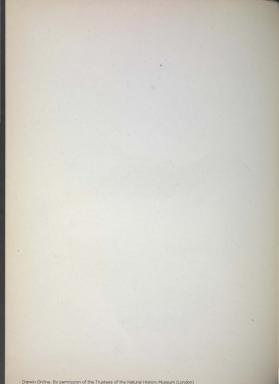




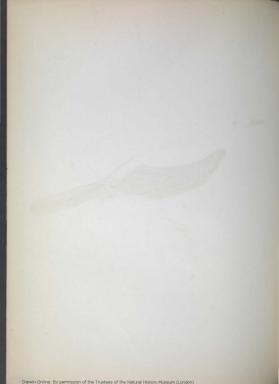


Lichenops erythropterus.

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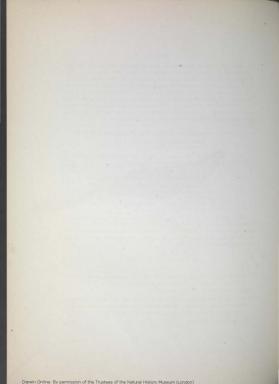






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Fluricola Azara



AND DESCRIPTION OF THE PARTY OF

are quite differently marked. In L. ergihraptorus, the third, fourth, and fifth primaries are the longest, and are equal to each other; the second is only a little shorter than the third. In L. perspicitlates the third is rather shorter than the fourth and fifth; and the second is proportionally shorter relatively to the third, so that the outer part of the wing in this species is more pointed than in L. erg-thropterus. The hinder claw in the latter is only in an extremely small degree straighter than in the former; and this, considering that the L. perspicitlatus is generally perched, and when on the ground, can only hop; and that the L. erg-thropterus feeds there entirely, and walks, is very remarkable.

1. FLUVICOLA ICTEROPHRYS. D'Orb. & Lafr. Mag. de Zool. 1837. p. 59.

Muscicapa ieterophrys, Vicill. Encyc. Meth. p. 832.

Specimens were found by me both at Monte Video and at Maldonado, on the banks of the Plata. I found Coleoptera in their stomachs.

2. FLUVICOLA IRUPERO. G. R. Gray.

Tyrannus Irupero, Vieill, Ency. Meth. p. 856. Muscicapa mosta, Lieft. Cat. p. 54. Muscicapa nivea, Spix, Av. pl. 29. f. 1. Pepoaza nivea, MOrb. & Lafr. Mag. de Zool. 1837. p. 62 Irupero, Aurra, No. 204.

This elegant bird, which is conspicuous amongst most land species by the whiteness of its plumage, is found, though not commonly, (in November) in Banda Oriental; whilst near Santa Fê, three degrees of latitude northward, it was common during the same time of year. It is rather sby, generally perches on the branches of bushes and low trees.

3. FLUVICOLA AZARE. Gould.

PLATE X

F. alba; alis, cauda cauda que tectricibus atris, his albo-marginatis; primariis flavescenti-albis, basibus apicibusque nigris; rostro pedibusque atris.

Long, tot. 8-A unc.: als. 4-A: conds. 4-A: tarri. 1: rest. 1

Head, all the upper and under surface white; wings and tail black; tail coverts black margined with white; primaries broad and crossed near their extremity with sulphur white, and tipped with brown; bill and legs black.

Habitat, banks of the Plata.

This bird is very common in the neighbourhood of Maldonado, where, it requests the open grassy plains. It sits on the top of a thirds, or on a tsig, and catches the greater part of its food on the wing. It is generally quiet in its movements and silent. Mr. Gould remarks, that he finds "nearly all the spocies of this peculiar group to differ remarkably in the structure of their wings and all, while in all other respects they closely resemble each other both in form and habit; I have, therefore, hesitated to separate them into so many genera. I have assigned the present species to Mr. Svanisson's suggessums Phinciocha, considering that differences in the form of one organ alone would not be sufficient grounds for the institution of a new genus among such closely allied species; the present bird evidently leads off to Tenisptera, a genus proposed many years since, by the Prince of Masignano for the Popuzzus of Azars.

"This species is closely allied to, if not ideatical with the Pcpouza Dominamo of Azara, but as there is a degree of obscurity in his description, which causes some doubt on this point. I have considered it better to pay a just tribute of respect to that zealous labourer in the field of natural science, by assigning his mame to this very elevant bird."

1. Xolmis coronata. G. R. Gray.

Tyrannus coronatus, Vicill. Ency. Meth. p. 885. Muscicapa vittiger, Licht. Cat. p. 54.

My specimen was obtained on the wooded banks of the Parana, near Santa Fé, in Lat. 31° S.

Boie's name of Xolmis is adopted by Mr. G. R. Gray, as it was proposed some five years anteriorly to that of the Prince of Musignano's.

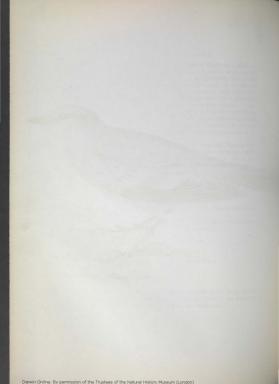
2. XOLMIS NENGETA. G. R. Gray.

Lanius nengeta, Linné, 1. p. 135. 7.
Tyrannus nengeta, Steaina, Journ. Sci. xx. p. 279.
Fluvicola nengeta, Steaina, Jaute.
Tyrannus pepuan, Fieili, Eney. Meth. p. 855.
Muscienpa polyglotta, Liold. Spiz. II. pl. 24.

Le Pepoaza proprement dit, Ausra, No. 201.

My specimen was procured at Maldonado, north bank of La Plata, where its not common. Its habits in many respects are like those of the *Fluvicola Azara*; it appears to catch its prey on the wing. Iris bright red.







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Tanioptera variegatu.



.......

3. Xolmis variegata. G. R. Gray

Pepoaza variegata. B'Orl. & Lofe. Mag. de Zool. 1837. p. 63. Voy. dans l'Amér. Mèr. Orn. pl. 39. f. 2. Temioptera variegata. On plate.

This bird feeds in small flocks, often mingled with the ieteri, plovers, and other birds on the ground. Its namener of flight and general appearance never failed to call to my recollection our common fieldfares (Terolas pilaris, Liens, and I may observe that its plumage (in accordance with these habits) is different from that of the rest of the genus. I opened the stomeches of some specimens killed at Maldomado, and found in them seeds and ants. At Bahin Blanca I saw these birds catching on the wing large stercoroused Colopters; in this respect it follows the habits, although in most others it differs from those of the rest of its tribe. Iris rich brown.

4. XOLMIS PYROPE. G. R. Gray.

Muscicapa pyrope, Kielitz. Mem. l'Acad. Imp. des Sci. St. Peters. 1831. p. 191. pl. 10. Vögel von Chili, pl. 10, p. 19.

Pepoaza pyrope, WOrb. & Lafr. Mag. de Zool. 1837. p. 63.

This bird is not uncommon near Port Famine in Tierra del Poego, and along the whole western coast (d. Ghloe specimens were obtained) even as far north as the desert valley of Copiapó. In the thickly wooded countries of Tierra del Paego and Chiloc, where it is more common than further northward, it generally takes its station on the branch of a tree, on the outskirts of the forest. When thus perched, usually at some height above the ground, it sharply looks out for insects possing by, which it takes on the wing. Iris scarlet. It builds a coarse nest in bushes. Egg perfectly white, pointed oval; length one inch, breadth 76 of an inch.

GENUS .- AGRIORNIS. Gould.

Tyrannus, Epd. & Gere. Pepcam, I/Orb. & Lafr.

Restrum longitudius capitis, rectuus, forte, compressum, alevapit diffexum, emerginatum; tomis rectii integrii; auribus hasalihus, heterillus, renbadis, publisi; ricitu pilis rigidiusculis obsesso. Ale medioces, remige prima longd, tertid quartique equatibus, longivisius. Condu modicerie, quadratu. Turrii longd, ricrit quartique crusis annulati; digito ungueque postico mediano beceiver, lateralibus arqualibus, liberi.

Mr. Gould observes that the members of this genus are remarkable for their rounds form and for their strength and magnitude of their bills; and their habits strictly accord with their structure, as they are fierce and courageous.

The species are closely allied to those of the preceding genus.*

1. AGRIORNIS GUTTURALIS. Gould.

Tyrannus gutturalis, Epd. & Gere. Voyage de la Fav. Ois. dam Mag. de Zool. 1836. pl. 11. Peroaza zutturalis, D'Orb. & Luir. Mag. de Zool. 1837. p. 64.

My specimens were obtained near Valparaiso in Chile. I saw it as far north as the valley of Copiapó. I was assured by the inhabitants that it is a very fierce bird, and that it will attack and kill the voung of other birds.

2. AGRIORNIS STRIATUS. Gould.

A. Fam. intensè olivacco-brunnea; alis caudique fuscis, utriusque plumis marginibus apiecque pallidé brunneis; rectricum externarum pogonià externà albà; gutture facique lateribus albis, his nigrostriatis; pectore hypochondriisque olivacco-brunneis; ventre crissoque flaresecutibus.

Long. tot. 10 unc.; alo, 47; coude, 47; tarei, 13; rostri, 17;

Head, and all the upper surface dark olive brown; wings and tail dark brown, each feather margined and tipped with pale brown, and the outer web of the external tail-feather, white; throat, and sides of the face, white, striated with

* Perhaps to this genus belong Municippa thannophiloides and cinerea, figured by Spix, in his Aves, pl. 26. f. 1 and 2. G. R. Gray.







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Agriornis micropterus.









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Agriornis leucurus.



IRDS. 57

black; breast and flanks olive brown; centre of the abdomen and under tail-coverts, buff; bill, horn colour; feet, black.

Habitat, Santa Cruz, Patagonia. (April.)

I am not aware of any difference in habits between this species, and the following (A. micropterus); and the country inhabited by it is similar. From these circumstances I am induced to suspect, that it is the same species in an immature state.

3. AGRIORNIS MICROPTERUS. Gould.

Plate XI

M. pallidè brunneus, subtus flavescenti-albus; alarum caudæque plumis griseo-marginatis; gutturis albis, brunneo-marginatis.

Long. tot. 9-J. unc.; ale, 41; cande, 21; tarei, 1-J.; rostri, 14.

Head, all the upper surface, wings and tail, pale brown, each feather of the wings and tail margined with greyish brown; throat, white, striated with dark brown; the remainder of the under surface, buffy white; bill, dark horn colour; feet brown.

Habitat, Port Desire, and St. Julian, Patagonia. (January).

These birds frequent the wild valleys in which a few thickets grov. They generally take their stand on the upper twigs. They are sly, solitary, and not numerous. Mr. G. R. Gray considers the two specimens which were obtained to be immature, and that one is a full-fledged young, and the other a nestling of the Agr. stratus.

4. AGRIORNIS MARITIMUS. G. R. Gray.

PLATE XIII.

Pepeaza maritima, D'Orb. et Lefr., Mag. de Zool. 1837, p. 65. Agriornis leucurus. Gould's MSS., and on Pl. xiii.

Inhabits the coast of Patagonia. It is a scarce, sky, solitary bird, frequenting the valleys in which thickes grow, but often feeding on the ground. In the interior plains of Patagonia, on the banks of the Santa Craz, I several times save it chassing beetles on the wing, in a peculiar manner, balf bopping and half flying; when thus sumpleyed, it spreads its tail, and the white feathers in it are displayed in a very conspicuous manner. I also not with this species in the lofty and arid valleys on the eastern side of the Corolliers of Central Chies. In the likewise at

FAMILY .- LANIADÆ.

SUB-FAM.—LANIANÆ, SWAINS

Cyclarhis Guianensis, Swains.
C. Guinnensis, Swains., Ornith, Draw, Pl. 58, o

Tanagra Guianensis, Genel.

Laniagra Guyanensis, D'Orb. et Lafr.

Falcunculus Guianensis, Secuine., (1837.)

My specimen was obtained at Maldonado, in the latter end of May. 1 did not see another during my residence there. In its stomach were Colcoptera.

SUB-FAM.-THAMNOPHILINÆ.

THAMNOPHILUS DOLIATUS, Vieill.

Lanius doliatus, Linné

My specimen was obtained at Maldonado, where it is not very common. If generally frequests bedge-rows. Cyr rather load, but plaintive and agreeable. It is, reddish orange; bill, blue, especially base of lower mandible. I observed individuals (females y) in which the black and white bands on the breast were scarcely visible, and even those on the under tail-coverts but obscurely marked.

SECURIFICATION OF THE PERSON O

FAMILY.—TURDIDÆ.

1. TURDUS RUFIVENTER. Licht.

T. rufiventer, Licht. Cat. p. 38.

Vicill. Ency. Meth. p. 632?

Spin, Av. Sp. Nov. tom. 1. p. 70. t. lxviii.

D'Orb. at Late. Vov. de l'Amer. Mer. Av. n. 203.

Grive rousse et noirâtre, Azuru, No. 79.

Turdus Chochi, Vieill. Ency. Meth. p. 639.

HOrb. et Lafr. May. de Zool. 1835. p. 17.

D'Oré, et Layr. Mag. oz Loot. 1885. p. 17.
T. leucomelas, Vieill. Ency. Meth. 644.

T. albiventer, Spix, Av. Sp. Nov. tom. 1. p. 70. t. lxix. f. 1. m. 2 fem. La grive blanche et noirâtre, Asspu, No. 80.

The white-bellied thrush, described under the three latter synonyms, according to M. D'O'rbjury, (p. 203 of the emithological part of his work, is the female of the T. referenter. My specimens were obtained at Maldonado and the Ris Negro, which latter place, in a 'It', is its most southern limit: Spix found it near Ris de Janeiro in Brazil. It utters a note of alarm very like that of the common English thrush, (T-whois swarica).

2. Turdus Falklandicus. Quoy et Gaim.

T. Falklandieus, Quoy et Gains, Zeol. de l'Uranie, p. 104.
 Persetty, Hist. d'un Voy. aux Iles Mouines, II. p. 20.
 Díork, d'. Lofr., Voy. de IAmer. Mer. Av. p. 202.
 T. Magellanieus, King, Proc. Zeol. Soc. (1830) p. 16.
 Díork, d'. Left. May. de Zeol. 1835. p. 16.

M. D'Orbigny has pointed out that the Twoba Magellanica of King is only the male bird of Twothe Falkbankers. I obtained specimens from the Rio Negro, Falkhand Islands, Tierra del Fuego and Chiloc: I believe I saw the same species in the valleys of Northern Chile; I was informed that the threat here lines its nest with mad, in which respect it follows the habits of species of the northern hemisphere. In the Falkhand Islands is their juniabits the more necky and dryer hills. It haunts also the neighbourhood of the settlement, and very frequently may be seen within old sheds. In this respect, and generally in its habits, it resembles the English thrush (Twoba manicae): its cry, however, is different. It is tune, silent, and impuisitive.

1. MIMUS ORPHEUS. G. R. Grav.

Orpheus Calandra, *HOrb.*, & *Lafr.* Mag. de Zeel. (1835) p. 17.—Voy. de l'Amer. Mer. Av. 206; pl. x. f. 2.

Turchus Orpheus, Spiz. Av. t. 1, pl. 71.

Minus saturainus, *P. Max.* Beitr. p. 638.?

This bird is described in the Proceedings of the Zoological Society (Part IV. 1930, p. 6), as having come from the Straits of Magellan, which unboulsedly is a mistake. It is extremely common on the banks of the Plata; but a few degrees south of it, is replaced by the O. Patagonies of Drobingy. In Bands Oriental these birds are tame and bold; they constantly frequent the neighbourhood of the country houses to pick the meat, which is generally suspended to the posts and walls. If any other small bird joins in the feast, the Calandria (as this species is usually called in La Plata; immediately classes him away. In these respects, and in its manner of sometimes catching insects, the Minus is related in its habits with that division of the Mackeopide, which includes the general colour of the plumage of X. Negetois is so like that of Minus, that it might readily be mistaken for a bird of that genus. The Calandria haunts thickets and hedge-rows, where it actively hops about, and in doing so often elevates and slightly expands its tail.

2. Mimus Patagonicus. G. R. Gray.

Orpheus Patagonicus, D'Orô. & Lafr. Mag. de Zool. 1836, p. 19.—Voy. de l'Amer. Mer. Av. p. 210, pl. xi. f. 2.

I obtained specimens of this bird at the Rio Negro and at Statta Cruz in Southern Patagonia, at both of which places it is common. It is not found in Tierra del Fuego, for neither it nor the other species of the genus inhabit foreast. This species has slightly different habits from the M. Orpikost. It is a shyer bird, and frequents the plains and valleys thinly scattered with stunted and thornbearing trees. It does not appear to move its tail so much. Its err, like that the trest of the genus, is harsh, but its song is sweet. The M. Patagonicas, whilst seated on the highest twig of some low bush, often enlivens the dreating of the surrounding deserts by its varying song. Molina, however, describing the song of an allied species, has greatly exaggerated its charms. It may be compared to that of the sedge-brid (Motacille auderin, Linn.), but its much more powerful, some harsh notes and some very high ones being mingled with a pleasant warabiling. The song of the different mechcing threads certainly is DS. 61

superior to that of any other bird which I heard in South America; and they are almost the only ones which formulay perch themselves on an elevated twig for the purpose of singing. They sing only during the spring of the year. I may here mention, as a currous instance of the fine shades of difference in halts between very closely allied species, that when I first saw the M. Patagonica, I concluded from habits alone that it was different from M. Orghess. But having afterwards procured a specimen of the former, and comparing the two without particular care, they appeared so very similar that I changed my opinion. Mr. Gould, however, immediately upon seeing them (and he did not then know that M. D'Orbigay had described them as different) pronounced that they were distinct species; a conclusion in conformity with the trifling difference of habit and geographical range, of which he was not at the time aware.

3. MIMUS THENCA. G. R. Gray.

Turdus Thenca. Mol.
Orpheus Thenca. Mol. Vov. de l'Amer. Mer. Orn. p. 202, pl. f. 3.

This species seems to be confined to the coast of the Pacific, west of the Codillers, where it replaces the Mo-plean, and M. Pategonicar of the Attantic side of the continent. Its southern limit is the neighbourhood of Concepcion, (lat. 37°S.) where the country clanges from thick forests to an open land. The Thenca, (which is the name of this species, in the language of the Aborigian Indians,) is common in central and northern Chile, and is likewise found (I believe the same species) near Lima, (lat. 12°) on the coast of Peru. The labsits of the Thenca are similar, as far as I could preceive, to those of the M. Petagonicus. I observed many individuals, which had their heads stained yellow from the pollen of some flower, into which they bury their heads, probably for the sake of the small beetles concealed there. Molina describes the nest of the Thenca, a having a long passage, but I was assured by the country people, that this nest belonged to the Symilaria equilaboides, and that the Thenca makes a simple nest, built externally of small prickly benaches of the

4. Mimus trifasciatus. G. R. Gray. Plate XVI.

Orpheus trifasciatus. Gould, in Proc. of Zool. Soc. Part v. 1837, p. 27.

M. vertice, muchi, et doro migracantibus; urouggio rofo pallide lunute; alis sigracentibus, terticibus notá aliscente terminoli fusicas tres tranversus foicientibus; rectricibus conde duabus internediis sigracentibus, reliquis ad apieca pallidioribus; plumi auricularibus, trigis supercibari, guli, et carpore subtia albis, lateribus notis guttiupo fuscio ornalis; rottore poblisuspus aigris.

Long. tot. 10g unc.; rost. 1g; alr, 5; cander, 5g; tarsi, 1g

The vertex, map of the neck and the back, blackish; with the lower part of the back tinged with paler rolose; the wings blackish, with the tips of the wing coverts white, forming three transverse bands; the tail with the two intermediate feathers black, with the tips of the others much paler; the auricular feathers with a streak above the eyes, threat, and beneath the abdomen white; the flushes ornamented with fiscous marks and spots.

Habitat, Charles Island, Galapagos Archipelago. (October).

5. Mimus melanotis. G. R. Gray.

Orpheus melanotis, Gould, in Proc. of Zool, Soc. Part v. 1837, p. 27.

M vertice, meda, darroque pallidê feucis planis capitis et darsi ad medium calure atturative; sili situende feucis, singulis planis ai margiama pallidaritus, secundariis, tetricibusque majoribus notá albá terminali, faccisa duna transceran facciotibus; conda retricibus nigrenocari-ficues da apiene allis, loro, planingue auricobaribus nigrencesti-fisueis; laterum planis notá fueci centrali, abdumine albo; restronetibuscum niero.

Long tot. 94 unc.; rest. 14; ale, 44; caude, 44; tarsi, 1;

The vertex, nape of the neck and the back, pale brown; the feathers of the head and the back, as far as the middle, of a darker colour; the wings intensely brown, with the margins of each of the feathers paler; the secondaries and the greater wing-coverts terminated with white marks, giving the appearance of two transverse bands; the feathers of the tail blackish brown, thit the tips white; the lores and the feathers of the ears blackish brown, the feathers of the sides with a central brown mark, the abdomen white; the bill and feet black.

Habitat, Chatham and James's Islands, Galapagos Archipelago. (October.)







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Mimus trifasciatus.









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Minus parrulus.



The state of the s

6. MIMUS PARVULUS. G. R. Gray.

PLATE XVIII.

Orpheus parvulus. Gould, in Proc. of Zool. Soc. Part v. 1837, p. 27.

M. vertice, medal condique intensè fuecis, hajus rectricibus ad apicem albo notatis; altifuscis secundariis teetricibusque notd-albd apiculi fascius duas transcerass facientibus; foro plunisque auricularibus sigreocentibus; guld, colli lateribus, pectore, et abdomine albescentibus; plumis laterum notis fuscis per medium longitudinaliter excurrentibus.

Long. tot. 81 unc.; rost. 1; ala, 31; anda, 32; tarsi, 14.

The vertex, the nape of the neck, and the tail intensely black; with the tips of the nail feathers marked with white; the wings brown with the secondaries and coverts tipped with white marks, giving the appearance of two transverses bands; the lores and the feathers of the ears black; the threat, the sides of the neck, breast, and the abdomen white; the flanks marked longitudinally with brown.

Habitat, Albemarle Island, Galapagos Archipelago. (October.)

It will be seen, that the three last species of the genus Mimus, were procured from the Galapagos Archipelago; and as there is a fact, connected with their geographical distribution, which appears to me of the highest interest. I have had these three figured. There are five large islands in this Archipelago, and several smaller ones. I fortunately happened to observe, that the specimens which I collected in the two first islands we visited, differed from each other, and this made me pay particular attention to their collection. I found that all in Charles Island belonged to M. trifasciatus; all in Albemarle Island to M. parvulus, and all in Chatham and James's Islands to M. melanotus. I do not rest this fact solely on my own observation. but several specimens were brought home in the Beagle, and they were found, according to their species, to have come from the islands as above named. Charles Island is distant fifty miles from Chatham Island, and thirty-two from Albemarle Island. This latter is only ten miles from James Island, yet the many specimens procured from both belonged respectively to different species. James and Chatham, which possess the same species, are seventy miles apart, but Indefatigable Island is situated between them, which perhaps, has afforded a means of communication. The fact, that islands in sight of each other, should thus possess peculiar species, would be scarcely credible, if it were not supported by some others of an analogous nature, which I have mentioned in my Journal of the Voyage of the Beagle. I may observe, that as some naturalists may be inclined to attribute these differences to local varieties; that if birds so different as O. trifasciatus, and O. parvulus, can be considered as varieties of one species, then the experience of all the best ornithologists must be given up, and whole genera must be blended into one species. I cannot myself doubt that M. trifusciatus, and M. parvulus are as distinct species as any that can be named in one restricted genus.

The habits of these three species are similar, and they cridently replace each other in the natural economy of the different islands, no can I point out any difference between their habits and those of M. Those of Chile; I imagined, however, that the tone of their voice was slightly different. They are lively, inquisitive, active birds, and run fast; (I cannot assert, positively, that M. Theore ran). They are so extremely tune, a character in common with the other bries of this Archipe-lago, that one alighted on a cup of water which I held in my hand, and drank out of it. They sing pleasantly; their nest is said to be simple and open. They seem to prefer the dry strile regions nearer the coast, but they are likewise found in the ligher, duaper and more fertile parts of the islands. To these faster situates the colonists. I repeatelly saw the M. sudonstr at James Island, tearing this of must from the flesh of the totates, which was can into strips and assepted to dry, precisely in the same manner as I have so often observed the M. Orpheu, in La Pitan, attacking the meat hung up near the Estancias.

FURNARIUS RUFUS. Vicill.
 Farnarius rufus, Vicill., Ency. Meth. 513.
 Merope rufus, Gond. Pl. enl. 739.
 Opctiorhyschus rufus, Tom. Man.
 Turdus vufius, Lielt. Cat.
 Figulus allogularis, Spir. Av. pl. lxxviii. f. 1 & 2.
 Founier. Bof. Acros. No. 221.

This bird is common in Banda Oriental, on the banks of the Platt; but I did not see it further southward. It is called by the Spaniards Casaro, or house-builder, from the very singular nest which it constructs. The most exposed situation, as on the top of a post, the stem of an opuntia, or bare rock, is chosen. The nest consists of mnd and birs of straw; it is very strong, and the sides are thick; in shape it resembles a depressed bechive or oven, and hence the name of the genus. Directly in front of the mouth of the next, which is large and arched, there is a partition, which reaches nearly to the roof, thus forming a passage or ante-chamber to the true nest. At Maldonado, in the end of May, the bird was busy in building. The Fernarius is very common in Banda Oriental; it often humst be buskes in the neighbourhoof of houses; it is an active bird, and both rodds and roas quickly, and generally by starts; it feeds chiefly on Colopters; it often actives a peculiar, lond, shrill, and quickly reitented error.

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 FURNARIUS CUNICULARIUS. G. R. Gray. Alauda cunicularia, Vieill.
 Alauda fissirostra, Kittl. Mem. l'Acad. St. Peters. ii. pl. 3. Certhikuoda cunicularia, D'Oré, & Latr. Mag. de Zool.

This bird has a considerable geographical range. On the eastern side of the continent it is found from about 40° (for I never saw one in the southern districts of Patagonia) northward to at least 30°, and perhaps much further. On the western side its southern limit is the neighbourhood of Concepcion, where the country becomes dry and open, and it ranges throughout Chile (specimens were procured from Valparaiso) to at least as far north as Lima, in lat. 12°, on the coast of Peru. I may here observe, that the northern limit of all birds, which are lovers of dry countries, such as this Furnarius and some of the species of Mimus, is not probably at Lima but near Cape Blanco, 10° south of the Equator, where the open and parched land of Peru blends (as it was described to me) rather suddenly into the magnificent forests of Guayaquil. This Furnarius constantly haunts the driest and most open districts; and hence sand-dunes near the coast afford it a favourite resort. In La Plata, in Northern Patagonia, and in Central Chile, it is abundant: in the former country it is called Casarita, a name which has evidently been given from its relationship with the Casaro, or Furnarius rufus, for, as we shall see, its nidification is very different. It is a very tame, most quiet, solitary little bird, and like the English robin (Sylvia rubecula) it is usually most active early in the morning and late in the evening. When disturbed it flies only to a short distance; it is fond of dusting itself on the roads; it walks and runs (but not very quickly), and generally by starts. I opened the stomachs of some, and found in them remains of Coleoptera, and chiefly Carabidæ. At certain seasons it frequently utters a peculiar, shrill but gentle, reiterated cry, which is so quickly repeated as to produce one running sound. In this respect, and in its manner of walking on the ground, and in its food, this species closely resembles the Casaro, but in its quiet manners it differs widely from that active bird. Its nidification is likewise different, for it builds its tally to nearly six feet under ground. Several of the country people told me, that when boys, they had attempted to dig out the nest, but had scarcely ever succeeded in getting to the end. The bird chooses any low bank of firm sandy soil by the side of a road or stream. At the settlement of Bahia Blanca the walls are built of hardened mud; and I noticed one, enclosing a courtvard, where I lodged, which was penetrated by round holes in a score of places. On asking the owner the cause of this, he bitterly complained of the little Casarita, several

of which I afterwards observed at work. It is rather curious, that as these birds were constantly flitting backwards and forwards over the low wall, they must be quite incapable of judging of distance or thickness even after the shortest circuitous route, for otherwise they would not have made so many vain attempts.

UPPUCERTHIA DUMETORIA. I. Geoffr. & D'Orb.

PLATE XIX.

Uppneerthia dumetoria, J. Gooffr. & D'Orb. Ann. du Mus. i. 393 and 31 Furnarius dumetorum, D'Orb. MS.

Uppucerthia dumetorum, D'Orb. & Lafr. Mag. de Zool, 1838, p. 20.

This bird is an inhabitant of extremely sterile regions. I saw serveral at the Rio Negro, but at Port Desire they were, perhaps, more numerous. I did not observe it near Valparains, in Central Chile, but I procured specimens of it from Coquimbo, where the country is more desert. I threquents open places, in which a few bashes grow. It hops very quickly, and often files quietly from one place to another. It may often be seen turning over and picking dry pieces of dung, it is a remarkable circumstance, that in the three specimens which I brought home, from different localities, namely the Rio Negro, Port Desire, and Goquimbo, the beak varies considerably in length; in that from Port Desire in Patagonia it is three-eighths of an inch shorter than in that from Coquimbo in Chile; whilst the Rio Negro specimes is intermediate between them. Mr. G. R. Gray has pointed out to me that Latham long since observed a great variation in the beak of the Patagonian wardber. Opticies/packed Patagonian.

1. OPETIORHYNCHUS VULGARIS. G. R. Gray.

Uppucerthia vulgaris, WOrbig. & Lafr. Mag. de Zool. 1838, p. 23.

This bird in general habits has several points of resemblance with the Furnuries cancidenties, but differs in some other respects. Its flight is somewhat similar, but it shows two red bands on its wings, instead of one, by which it can be distinguished at a distance: instead of walking it only hops; it feeds entirely on the ground, and in its stomach I found scarcely anything but Coleopterous insects, and of these many were fungi feeders. It often frequents the borders of lakes, where the water has thrown up leaves and other refuse. It likewise may be met with in all parts of the open grassy plains of Banda Oriental, where (like the Uppnecribie at the Rio Negro) it often turns over dry dung. Its note is very like that of the F. exciscalaries, but more acute, and consists of a shrill cry, quickly reiterated so as to make a running sound. I was informed that like that fairly it builds its next at the bottom of a deep burrow. This success







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Upercerthia dumetaria.



is common in La Plata, the Falkland Islands, and Tierra del Fuego; in the latter it frequents the higher parts of the mountains, or those exposed to the western gales, which are free from forests, for it is a bird that exclusively lives in open countries and on the ground. I believe it is not found in Chile; nor is it common on the coast of Patagonia. This species in its habits is very different from the three following closely allied ones, since the latter never, or most rarely, leave the sea heach, whilst this bird, excepting by chance, is never seen there, but always in the interior country. Nevertheless with this marked difference in habits, (there are several other points beside that of the station frequented), if the preserved nerhans of a practised ornithologist, he would at first hesitate to consider them ence,-of which the much greater strength of the feet and the greater length of the tarsus are conspicuous in those species, which live amongst the stones on the

2. OPETIORHYNCHUS PATAGONICUS. G. R. Gray

- Chilensis, Low, Vov. de la Coqu. i. p. 671, n. Tr. d'Ornith, p. 307, pl. 75, f. 1.

Opetiorhynchus rupestris, Kittl. Mem. de l'Acad. St. Petersb. i. p. 188, pl. viii.

Unescerthia rupestris. If Orb. & Lafr. Mag. de Zool, 1838, p. 21.

This bird is extremely common on the sea shore of all the bays and channels of Tierra del Fuego; on the western coast it is replaced in Northern Chile by the O. nigrofumosus, and in the Falkland Islands by the O. antarcticus. As the habits of this species and those just named are quite similar, I shall describe them all together under the head of O. nigrofumosus. A specimen of O. Patagonicus from Chiloe has a bill rather more than two-tenths of an inch longer than in those from Tierra del Fuego; but as no other difference can be perceived, I cannot allow that this is a specific character any more than in the case of the Uppucerthia.

3. OPETIORHYNCHUS ANTARCTICUS. G. R. Gray.

Certhia antarctica, Garw. Ann. des Sc. Nat. 1826.

This species inhabits the Falkland Islands. My specimens were procured at

the cast island, from the cast is an all tkewise that given in the Appendix to Dixor Syagae. I have no doubt that it is paculiar to this group, for the farging is species, which in the neighbour-ing maintand of Ferrar del Pauge group, for the spires is paper, so the his the neighbour-ing maintand of Ferrar del Pauge group, for the spires in paper, so that it is not a habit, has been examined by Mr. Guld and is considered distinct. The O. as the cast is the cast is the cast is the cast in the cast is the cast in the cast in the cast is the cast in the cast in the cast is the cast in the c

4. OPETIORHYNCHUS NIGROFUMOSUS. G. R. Gray. Plate XX.

Uppucerthia nigrofumosa, D'Orb. et Lafr. Mag. de Zool. 1838, p. 23. Opetiorityuchus lanccolatus. Gould. MS. and on plate XX.

My specimen was killed at Coquimbo, on the coast of Chile. It differs from O. Patagonizes in its larger size, much stronger feet and bill, and more dusky plumage, and in the white streak over the eye being less plainly marked. In this species the red band, which extends from the body obliquedy across the wings in all the species, reaches to the third primary, whereas in O. Patagonica, O. rulgaria, and O. antarcticus, that feather is not marked, or so faintly, as scarcely to be distinguishable. In the genus Fernarias, the wing feathers are marked in an analogous manner. I saw this species (as I believe) on the coast near the mouth of the valley of Copiapó.

I will now make a few remarks on the habits of these three coast species. The first, O. antarcticus, is confined, as I have every reason to believe, to the Falkland Islands. The second inhabits Tierra del Fuego, and in Chiloe and Central Chile is replaced by the local variety with a long beak, and this still further northward by the O, nigrofumosus. On the east side of the continent I do not believe these marine species extend so far northward. I never saw one on the shores of the Plata, but they occur in Central Patagonia. These birds live almost exclusively on the sea beach, whether formed of shingle or rock, and feed just above the surf on the matter thrown up by the waves. The pebbly beds of large rivers sometimes tempt a solitary pair to wander far from the coast. Thus at Santa Cruz I saw one at least one hundred miles inland, and I several times observed the same thing in Chile, which has likewise been remarked by Kittlitz, who has given a very faithful account of the habits of O. Patagonicus. I must add that I also saw this bird in the stony and arid valleys in the Cordillera, at a height of at least 8000 feet. In Tierra del Fuego I scarcely ever saw one twenty vards from the beach, and both there and at the Falkland Islands they may fre-







Opetiorhynchus lanceolatus.

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Eremobius phanicurus.



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quently be seen walking on the busyant leaves of the Facus gignatos, at some little distance from the show. In these respects, the brids of this gauss entirely replace in habits many species of Tringas. In the stomachs of those I opened I found small crabs and little shells, and one Buccinium even a quarter of an inch long; Kittlitz says, he found in one, besides such objects, some small seeds. They are very quiet, tame and solitary, but they may not unfrequently be seen in pairs. They hop and likewise raw quickly; in which latter respect, and likewise in their greater tunneness, they differ from the O. valgaris. Their cry is seldom uttered, but is a quick repetition of a shrill note, like that of the last named bird, and of several species of Furnarisa.

On the 20th of September, I found, near Valparaiso, the nest of O. Patagonicar, with young birds in it; it was placed in a small hole in the roof of a deep cavern, not far from the bank of a pebbly stream. Three mouths later in the summer I found, in the Chones Archipelago (Lat. 45°), a nest of this species, placed in a small hole beneath and old tree, close to the sea-beach. The nest was composed of coarse grass and was untidily built. The egg rather clongated; length '110 of an inch, width in broadest part '6 of an inch; perfectly white.

GENUS .- EREMOBIUS. Gould.

Rostum opitis longitudine nu longius, for rectum, ad apican doorsun curvatum, hand campriman; surabus parties, handlien, oblengis, in sulso patitis, Valu herres, remigitus primaries urcanduritum free aquathus, planis 4, 5, 6-yee usheequalitus, longitusistupus, Canda auntienes apiear retundus; Trais indusqi uniter squamis ferò dondette indati, hallace digito mello becciore, digitis lateralibus inaqualibus, internis becciore, timenis leveriore.

EREMOBIUS PHŒNICURUS. Gould.

PLATE XXI.

E. fuscus, remigibus cinereo fusco marginatis, strid superciliari pone oculos extensá cinero-albá; caudá nigro-fused basi custaneo fuseá; gulá abdomineque medio cinero albis; hypochondriis tectricibusque caudalibus inferioribus pallide flavescentibus.

Long. tot. $6\frac{a}{12}$ unc.; rost. 1; also, $2\frac{a}{12}$; caudes, 3; tarsi, $\frac{a}{12}$.

Head and all the upper surface brown; the primaries margined with greyish brown; stripe over and behind the eye greyish white; tail feathers chestnut brown at the base, and blackish brown for the remainder of their length; throat and centre of the abdomen greyish white, passing into pale buff on the flanks and under tail-coverts; bill and feet blackish brown.

Habitat, Patagonia.

This bird, though forming a well-marked genus, is in many respects, even in plumage, allied to Furnaria and Opetiorhychus,—for instance, in the streak over its eyes, in the red band on its wings extending obliquely from the body to the third primary, and to some of the species of these genera in its rather plumose feathers. In its general manners, the same resemblance, together with some differences, always struck me. It lives entirely on the ground, and generally in dry sterile situations, where it haunts the scattered thickets, and often flies from one to another. When skakling about the bashes it eceks up its tail, imitating in this respect Ptemptechos and Rhinomya. Its cry is shrill, quickly reitented, and very similar to that of several species of Furnarias and Opetio-reitented, and very similar to that of several species of Furnarias and Opetio-specimens from three places on the coast of Pstagonia; namely, Port Desire, St. Jalian, and Santa Cruz, but it is nowhere common. I likewise saw it at a

RHINOMYA LANCEOLATA. Is. Geoffr. & D'Orb.

Rhinomya lanceolata. In. Gouffr. & D'Oré. Voy. de l'Amer. Mer. pl. 7. f. 1. 1832, cl. 11. pl. 3. id.—Mag. de Zool. 1832, 11. pl. 3. and 1837, p. 15.

I procured a specimen of this bird from the Bio Negro in Northern Patagonia, and I never saw one any where else; and M. D'Ordigap makes the same remark. On the Atlantic side of the continent, it replaces the several species of Pteroptoclas while live on the shores of the Pacific. Its labits, is some respects, are similar; it lives at the bottom of hedges or thickets, where it runs with such quickness, that it might easily be mistaken for a rat. It is very unwilling to take flight, so that, I was assured by some of the inhabitants, that it could not fly, which, however, is a mistake. If requently uttern a loud and very singular ery. The Rhimonya is distantly allied to the Eremobius phemicras, which is found in Southern Patagonia, whose habits in some respects are similar.

1. Pteroptochos Tarnii. G. R. Gray.

Hydronyx ruffecps. D'Orb. & Lofr. Mag. de Zool. 1837. p. 15.
Leptonyx Tarnii. D'Orb. & Lofr. Voy. de l'Amer. Mez. Av. p. 198, pl. viii. f. 1.

This species, as well as several others of the genus, and likewise of Scytalopus are confined to the west coast of South America. The P. Tarnii ranges from the

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neighbourhood of Concepcion, lat. 37°, to south of the Peninsula of Tres Montes, between 41° and 50°. It is not found in Tierra del Fuego, where the climate probably is too cold for it, for in other respects, the great forests of that country appear admirably adapted to its habits. Its limit, northward of the province of Concepcion, is evidently due to the change which there takes place, from dense forests to an open and dry country. The P. Tarnii is abundant in all parts of the Island of Chiloe, where it is called by the native Indians, guid-guid; but by the English sailors, the barking-bird. This latter name is very well applied, for the noise which it utters is precisely like the velping of a small dog. When a person is walking along a pathway within the forest, or on the sea-beach, he will often be surprised to hear on a sudden, close by him, the barking of the guid-guid. He may often watch in vain the thicket, whence the sound proceeds, in hopes of secing its author, and if he endeavour, by beating the bushes, to drive it out, his chance of success will be still smaller. At other times, by standing quietly within the forest, the guid-guid will fearlessly hop close to him, and will stand on the trunk of some dead tree, with its tail erect, and strange figure full in view. It feeds exclusively on the ground, in the thickest and most entangled parts of the forest. It rarely takes wing, and then only for short distances. It has the power of hopping quickly and with great vigour; when thus awkwardly proceeding, it carries its short tail in a nearly erect position. I was informed that the guid-guid, builds a nest amongst rotten sticks, close to the ground.

2. Pteroptochos megapodius. Kittl.

Pteroptochos megapodius. Kittl. 1830, Mem. de l'Acad. 1, pl. iv. et Vogel. von Chili, p. 10, pl. iv. Mecalonyx rufus. Less. Cent. Zool. 1831, pl. 66.

D'Orb. & Lafr.

Leptonyx macropus. Science. Zool. III. pl. 117.

D'Orb. & Lafr. Voy. de l'Amer. Mcr. Av. 197.

 fleshy covering to the nostrils, and the arched, rounded wing, and great scratching claws, it was easy to imagine some distant kind of relationship between these birds and those of the Gallinaccous order. I was informed that the Turco makes its nest at the bottom of a deep burrow which it excavates in the ground.

3. Pteroptochos albicollis. Kittl

Pteroptochos albicellis. Kittl. Mem. de l'Acad. Petersb. 1, pl. iii. Vogel von Chili; p. 8, pl. iii. Megalonyx medius. Less. Ill. Zool. pl. lx.

Megalonyx albicollis. D'Orb. and Layr. Mag. de Zool. (1636,) Aves, p. 15.
Leptonyx albicollis. D'Orb. Voy. de l'Amer. Mer. Av. p. 196, pl. viii, f. 2

This species is called by the Chilenos "Tapacolo," or cover your posteriors. The name is well applied, as the Tapacolo generally carries its short tail more than erect, that is, inclined backward and toward the head. It is extremely common in central Chile; and in the same manner as the Turco replaces the Barking-bird of the southern forest-land, so does the Tapacolo replace a fourth species (P. rubecula), which is an inhabitant of the same forests. The Tapacolo frequents hedge-rows, and the bushes which are scattered at a considerable elevation over the sterile hills, where scarcely another bird can exist: hence it plays a conspicuous part in the ornithology of Chile. In its manner of feeding, and quickly hopping out of a thicket and back again, in its desire of concealment, unthe P. megapodius; its appearance is not, however, so strange, and (as if in consequence) it exposes itself more readily to view. The Tapacolo is very crafty: when frightened by any person, it will remain motionless at the bottom of a bush, and will then, after a little while try with much address to crawl away on the opposite side. It is also an active bird, and continually making a noise; these noises are various and strangely odd; one is like the cooing of doves, another like the bubbling of water, and many defy all similes. The country people say it changes its cry five times in the year, which is according, I suppose, to some change of season. I was told that the Tapacolo builds its nest at the bottom of a deep burrow, like the Turco; whereas the P. Tarnii, (as well as the P. rubecula, an inhabitant of the same districts,) makes its nest amongst the sticks just above the ground. This difference in the nidification, of the southern and northern species, is probably due to the nature of the damp forests inhabited by the former in which a burrow could hardly be made dry. I may here observe, that travelling northward from Valparaiso to Coquimbo, I met near Illapel with a bird closely allied to the Tapacolo, but which, from some slight difference in manners, I believed was a distinct species. The range of this supposed species, is from between Coquimbo and Valparaiso, to at least as far north as the valley of

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4. PTEROPTOCHOS RUBECULA. Kittl.

Pteroptochos rubecula, Kittl. Vog. von Chili, p. 7. pl. ii.
Megalonyx rubecula, BOrb. & Lufr. Mag. da Zool. 1837, p. 16.
Megalonyx rufogularis, BOrb. & Lufr. Voy. de l'Amer. Mer. pl. 7, f. 2.
Lestonyx rubecula, BOrb. & Lufr. Voy. de l'Amer. Mer. Av. p. 190.

This species appears to have nearly the same range with the P. Tarnii: its southern limit certainly extends as far as 47° south, but northward, where the forests cease, near Concepcion, I was unable to ascertain that this bird is ever met with, and Kittlitz has made the same remark. In Chiloe, where it is common, it is called by the Indian inhabitants the "Cheucau." It frequents the most gloomy and retired spots within the damp forests. Sometimes, although the cry of the Cheucau is heard close by, a person may watch attentively and yet in vain: at other times, if he stands motionless, the red-breasted little bird will approach within a few feet, in the most familiar manner. It then busily hops about the entangled mass of rotting canes and branches, with its little tail cocked upwards. I opened the gizzard of several specimens; it was very muscular, and contained hard seeds, buds of plants, occasionally some insects, and vegetable fibres mixed with small stones. The Cheucau is held in superstitious fear by the Chilotans, on account of its strange and varied cries. There are three very distinct kinds :- one is called "chiduco," and is an omen of good; another "huitreu," which is extremely unfavourable; and a third, which I have forgotten. These words are given in imitation of its cries, and the natives are in some things absolutely governed by them. I have already stated that I was informed by the inhabitants that the Cheucau builds its nest amongst sticks close to the ground.

5. Pteroptochos paradoxus. G. R. Gray.

Troglodytes paradoxus, Kittl. Vog. von Chili, p. 12, pl. 5.—Id. Mem. de l'Acad. St. Peters. 1833, i. pl. 5. Malscothyachus Chilemis, Kittl. Mem. de l'Acad. St. Peters. 1833, p. 527. Leptomyx paradoxus, D'Od. Voy. de l'Amer. Mer. Av. p. 197.

This species differs in a small degree from all the others of the genus: its claws are longer, tarsi shorter, and bill flattened at the top: in these, and some other respects, it approaches to Scytalopus. I may add, that from a greater degree of resemblance, especially in the feet, P. Turnii and megapodius may be ranked in one section, and P. alkincilis and rulecale in another.

I precured specimens of the *P. paradoxus* both from Valdivia and Chiloe; like the *P. Tarmii* and *P. rubecula* it is confined to the regions of forest. Its habits are closely similar to those of the last species. I opened the gizzard of one at Valdivia, and found it full of large seeds and the remnants of insects. In Chiloe, where it is much less common than the Cheucau, it is called by the inhabitants Cheuqui. Kittlitz procured specimens from Concepcion. He describes the cry which it utters over and over again, in the same high tone, as very singular, and more like that of a frog than of a bird.

SCYTALOPUS MAGELLANICUS. G. R. Gray.
Spivia Magellanica, Latist. Index, ii. p. 328. § Feest. Dr. No. 163. §
Scytholopus facess. Gould, in Proc. of Zool. Soc. Part iv. 1836, p. 30.

Jard. and Sold. III. Own. New Scr. pl. 19. G.
Platruras niers. Sociat. Two Conts. and a Quatter p. 323. 4

This bird has a wider range than the species of the foregoing and closely allied genus. It is common near Port Famine in Tierra del Fuego, and on the west coast in the thickly wooded islets of the Chonos Archipelago. I was assured by an intelligent collector that this bird is met with, though rarely, in central Chile; and Mr. Gould informs me, that he has received specimens from that country. It has found its way over to the Falkland Islands, where, instead of inhabiting forests, it frequents the coarse herbage and low bushes, which in most parts conceal the peaty surface of that island. In general appearance the Scutalopus fuscus might at first be mistaken for a Troglodytes, but in habits it is closely allied to the several species of Pteroptochos. In a skulking manner, with its little tail erect, it hops about the most entangled parts of the forests of Tierra del Fuego: but when near the outskirts, it every now and then pops out, and then quickly back again. It utters many loud and strange cries: to obtain a good view of it is not always easy, and still less so to make it fly. A specimen I procured at Chiloe had its upper mandible stronger and more arched, but differed in no other respect

1. TROGLODYTES MAGELLANICUS. Gould.

T. Magellanicus, Gould, in Proc. of Zool. Soc. Part iv. 1836, p. 88.

This bird has a considerable range. I procured specimens of it near Rio de Janeiro, on the banks of the Plata, throughout Patagonia, in Tierra del Paego, where it is one of the commonest birds, and likewise in Central Chille: its lubits resemble very closely those of the common Trogolytes of England. In the open country near Bahia Blanca it lived amongst the thickets and course herbage in the valleys; in Tierra del Paego, in the outsikirs of the forest. Its editry is harsh. In Chile I saw one in October building its next in a hole in a stone wall, in a situation such as would have been chosen by our Trogolytytes.

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2. TROGLODYTES PLATENSIS. Gmel.

I procured specimens of this bird from Bahia Blanca, in Northern Patagonia, and likewise from the Falkhad Islands, where it is not uncommon. When first killed, its legs and beak appear of larger size, compared to its body, than in other species of this gennes. In the Falkhand Islands it lives, almost exclusively, close to the ground, in the coarse grass which springs from the peaty soil. I do not think I ever saw a bird which, when it chose to remain concealed, was so difficult to disturb. I have frequently marked one down to within a yard on the open grassy plain, and afterwards have endeavoured, quite in vain, by walking backwards and forwards, over the same spot, to obtain another sight of it.

1. SYNALLAXIS HUMICOLA. Kittl.

S. humicola, Kittl. Mem. de l'Acad. St. Peters. i. pl. 6 .- Id. Vog. von Chili, p. 13, pl. vi.

Not uncommon in the neighbourhood of Valparaiso. Kirilitr has well described its habits. He says it lives on the ground under thickets, that it is active in running about, and that it readily flies from bash to bash. It holds its tail purplist; utters a shrill, quickly relatend cry; feeds on insects; but Kirilitz found in the stomach chiefly grains and berries, with little stones. From these circumstances, be conceives that this bird shews some affinity with Petroptochos, but I feel no doubt that in the form of its beak, wings, tail, manner of carrying the latter, kind of plumage, sound of voice and habits, the relationship is much closer with Erembins, which perhaps it may be considered as representing on the Pacifics did of the Cordillera. Its tongoue is furnished with bristly points, but apparently is less deeply blifd than in the other species of Synallaxis or Limmonis. I obtained but sexes, but there is no difference in their plumage.

For the reason just given, I have put this species at the head of its genus, and therefore nearest to Eremobius, although it is impossible to represent by a linear arrangement, the multiplied relations between the following genera—Furnarius, Uppucerthia, Opetiorhynchus, Eremobius, Anumbius, Synallaxis, Limonroiis, Oxyurus; and again, Rhynomya, Perepotechos, Scytalopus, and Troglodytes, which, with the exception of the last, are strictly South American forms.

2. Synallaxis major. Gould.

S. olivaceo fuscus; infra fuleus albo distinctè maculatus; plumis singulis stria observa centrali notatis; fronte rufo, remigibus fuscis, cinerco-fusco externè maculatis, tertiariis nigro fuscis apice margineque latè cinerco-fuscis; gulâ albâ, plumarum flavescentium serie fusco maculatarum circumdată.

Long. tot. 8 unc.; rost. 1; ala, 31/4; canda, 4; tarsi, 1.

Forehead rufius; crown of the head, back of the neck and back olive brown, with a conspicuous stripe of blackish brown down the centre of each feather; wing-coverts and lower part of the back olive brown, with a faint trace of the dark patch in the centre of each feather; primaries brown, margined externally with greyish brown; spornios wing and secondaries rufious tipped with brown; tertiaries blackish brown browdly margined and tipped with greyish brown; the roundarder blackish brown largely tipped with white; throat white encircled with a series of feathers of a buff colour spotted with dark brown; broast and all the under surface tawny indistinctly blotched with white; tarsi with a very pale blue times.

Habitat, Maldonado, north bank of La Plata. (June).

This bird is not very common. Those which I saw lived on the ground in dry and open places, and did not frequent the neighbourhood of lakes abounding with rushes or thickets, like the greater number of species of Synallaxis, and the allied genus Limnornis. The flight of this bird is peculiar, which seems chiefly due to the length of its elegantly acuminated tail. It sometimes alights and rests on the summit of a thistle or twig, a habit different from that of any species of the genus which I have seen. Its manner of living and feeding on the ground might have been suspected, from the length of the soft secondaries, like those of a lark or of Furnarius cunicularius. The claws also of the front toes are produced and perhaps they are rather straighter than in other members of the family. The tongue is bifid and divided into bristly points. The nest, of which I have seen two, is very peculiar. It is cylindrical, about two feet long, and placed vertically in the middle of a thick bush in an exposed situation. It is made externally of prickly branches, and is very large compared with the size of the bird. The opening is at the upper extremity, from which a passage leads to the true nest, which is lined with feathers and hairs. There is a slight bend in the passage both at its exit and where it enters the nest.







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3. SYNALLAXIS RUFOGULARIS. Gould.

S. olivacoo fuscus plumis singulis maculâ oblongă fusco nigră; remigibus primariis secundariisque basi ferrugineo fuscis, apice nigro fuscis, flacescenti albo marginatis; lineă superciliari, mento abdomineque medio flavescenti albis; gulă ferrugineo fuscă; pecture futescenti fusco, plumis singulis stria pallidiore centrali ornatis.

Long. tot. 64 unc; rost. 1; ala, 3; canda, 31; tarsi, 1.

Head and all the upper surface and two centre tail feathers, bown, with a large oblong patch of bownish black down the centre of each feather; primaries, except the three outer ones, bounded posteriorly with an irregular line of black; secondaries, rusty bown at the base, and brown for the remainder of their length, margined all round with greyish olive; lateral tail feathers brownish black, largely tipped with tarwy white; stripe from the nostriks over each eye, chin, and centre of the abdomen, pale buff; sides of the face and throat grey, with a spot of dark brown down the centre of each feather; in the centre of the throat, a patch of ferruginous brown; chest, pale brownish buff, with a fine pale stripe down each feather; bill and feet brown.

Habitat, Patagonia. (April.) Valparaiso. (September.)

These birds are not uncommon on the dry rocky mountains near Valparaiso, and in the valleys of southern Patagonia, where a few thickets grow. They hop actively about the withered herbage and low thickets, and often feed on the ground. The hind claw is weaker and straighter than in most of the other species of this orenus.

4. SYNALLAXIS MALUROIDES.

S. maluroides. D'Orb. & Lafr. Voy de l'Amer. Mer. Ois. pl. xiv, f. 2. Mag. de Zool. 1837, Cl. 11, pl. 22.

My specimens were shot near Maldonado. Iris yellow; tans' very pale coloured. This species, as well as some others of Synallasis, Anumbius, and Limnonis, live amongst reeds and other aquatic plants on the borders of lakes, and have the same general habits. I vill, thereofree, here describe them. They all have the power of crawling very quickly by the aid of their powerful claws and feet, as I soon discovered when they were not killed at once, for then it was scarcely possible to catch them. Their soft that-feathers show signs of being used, but they never apply them, as the Certhias do, as a means of supporting their bodies. The tail-feathers were (at least during June) so loosely attached, that I seldom procured a specimen with all of them perfect; and I saw many (especially of S. mularoidie), lying about with no tail. All the species, or nearly all, utter an

acute, but not loud, rapidly reiterated cry. They are active and busly seek for small insects, chiefly Colooptera, in the cause herbage. The iris in all is musty red; the tongue is divided and terminates in bristly points. These reed birds, which are very numerous both in species and individuals, on the borders of lakes in the provinces north of the Plata, appear to supply in South America, the various Sytvice, which frequent similar stations in Europe,

5. Synallaxis flavogularis. Gould.

S. supra fuscescenti cinereus, infra cinereo-fuscus; remigibus obscur\(\text{fuscis}\), basi obscur\(\text{rafis}\); caudo plumis sex mediis nigro-fuscis, externis ferrugineis; genis guldque flavescentlus, plumis singulis apice obscur\(\text{fuscis}\).

Long. tot. $6\frac{1}{2}$ une; rost. $\frac{3}{4}$; alw, $2\frac{1}{2}$; canda, $3\frac{1}{4}$; tarzi, $\frac{3}{4}$;

Head and all the upper surface, brown; primaries, dark brown, with the basal portions rufous; six central tail-feathers, blackish brown; the remainder ferruginous; sides of the face and threat yellowish, with the tip of each feather dark brown; the remainder of the under surface, groyish brown; bill and feet, dark brown.

Habitat, Patagoni

My specimens were obtained at Bahia Blanca and at Santa Cruz, two extreme parts of Patagonia. It frequents the thinly scattered thickets on the arid plains: the hind claw of its foot is not produced as in S. rufogularis, and it lives less on the ground.

S. pallide rubro fusca; primariis secundariisque rufis apice fuscis; cauda plumis quatuor mediis nigrescenti fuscis, duabus proximis ferrugineo fuscis internè nigrescenti-marginatis, duabus extimis ferrugineo fuscis; genis, gulá abdomineque medio albescentibus; hypochondriis cinereis.

Long. tot. 5 %; unc. rost. 4; ala, 24; conda, 8; tarri, 19.

Head and all the upper surface pale reddish brown; primaries and secondaries, hrown at the tip and refores at the base; four central tail feathers, blackish inbrown; the next on each side rusty brown, margined internally with black-toish brown; the two lateral feathers wholly ranty brown; sides of the face, each of the face, the contral tail of the transition of the face of the face, the brown.

Habitat, Port Desire, Patagonia. (January.)









Synalaxis flavogularis.

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This little bird frequents the thickets in the dry valleys near Port Desire. It from files from bask to bash, and its shabits are nearly like those of the rest of the genus. From its mil feathers, however, being little used, and the tursi being slightly clonated, I suppose lit lives chiefly on the ground. I may observe, that this species comes nearest to S. florogaderis, but that in the form of its mil, straightness of bill, and kind of plumage, it departs from Synallaxis, and approaches Eermobius.

7. SYNALLAXIS ÆGITHALOIDES. Kittl.

S. Ægithaloides. Kittl. Mem. de l'Acad. 11. pl. vii.—Vog. von Chili, p. 15, pl. vii.

This bird is common throughout Patagonia and Central Chile, being found wherever thickets grow on a rocky or day soil. It sometimes moves about in small flocks. Its habits, as Kittlitz remarks, resemble in many respects, those of a timenuse (Parus); but there is one remarkable point of difference, namely, that this bird is able to rea very quickly on the ground. It does not always do so, but often hops about with great activity; nevertheless, I repeat, I have distinctly seen it running very quickly amongst the thickets. When hopping from twig to twig, it does not use its long tail, any more than the long-tailed timouse (Parus candatas) of Europe. It utters a harsh, shrill, quickly reitented cry, like so many other species of this genus and the allied ones. In Chile, I several times save a very large cylindrical nests, built of prickly twigs of the minosa, and placed in the middle of a thorn-bearing bush, with its mouth at the upper extremity; I was assured by the country people, that atthough so very large, it belonged to this little bird.* This kind of nidification, the habit of feeding on the ground, and the length of acuminated tail, are points of resemblance with S. smior.

8. SYNALLAXIS RUFICAPILLA. Vieill.

Synallaxis ruficapilla. Vicill. Gal. des Ois. pl. lxxiv.

Parulus ruficeps. Spir. Av. Sp. Nov. tom. 1. p. 84, t. lxxxvi. f. 1. m. f. 2. fem.

Sohenura ruficeps. Licht. Ver. p. 42.

My specimens were obtained at Maldoundo, June) where it was rare, and at Benens Ayres. Near Sants F4, in Enter Ries, 57 northward, it was common: Spix found it near the Rio San Francisco in Bezail. Iris yellowish red; legawith finit tinge of blue; tongue terminated in bristly points, not deeply blifd. This Synallaxis approaches in character Anuabius ruber. Habits similar to those of S. maleroide.

^{*} Molina, in his account of Chile, attributes this nest, I believe, through an error, to Minus thenca.

ANUMBIUS RUBER. D'Orb. and Lafr.

Anumbius ruber. D'Orb. & Laf. Mag de Zool, 1828, p. 18.
Furnarius ruber. Vieill. Ency. Meth. 514.
Anumbi rouge. Azura, No. 220.

Frequents reeds on the borders of lakes near Maldonado. Habits very similar to those of Symalitax in maleroide, and likewise of the two species of Limnornis; to one of which L curvivatris, it is most closely allied in structure. It is bright yellowish orange; tarsi, with faint tinge of blue; tongue divided on each side a little below the extreme point.

GENUS .- LIMNORNIS. Gould.

Rostrum capitis longitudine sea longius, levitor a basi ad upicem arcuntum, lateraliter compressum, hand camerginatur, arurbus megnis homalibus lincaribus apertis unt partim operculo tectis: alm brevissimae rotundae, plumis quarta, quinta aextuque ferè aqualibus et longissimis; canda rotundata et graduata, sensis aliquanto ultra rudios producti; taxis molicores, portiete sentellatir, lallance digit monde breviere, robusto, unque robusto armato, digitis lateralibus ferè aqualibus, intermediis aliquanti brevieribus.

1. LIMNORNIS RECTIROSTRIS. Gould.

Plate XXVL

L. pallide flarescenti fusca; cervice nigrescenti fusco; candá rufu; tectricibus primariis secundariisque fuscis rufo latè marginatis; fasciá pone oculos, gulá abdomineque flavescenti albis; hypochondriis fuleis.

Long. tot. $6\frac{a}{12}$ unc ; rost. $\frac{a}{12}$, als, $2\frac{a}{12}$ conds, $2\frac{a}{12}$ tarsi, $\frac{a}{12}$.

Crown of the head brown; the remainder of the upper surface, pale yellowish brown; tail rufous and acutely pointed; wing overets, primaries and secondaries brown, broadly margined with rufous; stripe behind the eye, throat, and all the under surface botfly white; flashest stawny; till lengthened, orange at the base, dark brown at the tip; iris rusty red; feet very pale coloured; claws whitish.

Habitat, Maldonado, La Plata. (June.)

This bird lives amongst the reeds on the borders of lakes. It often alights vertically on stems of plants, but in climbing does not use its tail: habits, generally similar to those of Synallaxis malaroides.



Limnornis rectirostris.

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Limnornis curvivostris.



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2. LIMNORNIS CURVIROSTRIS. Gould.

PLATE XXV

L. rufescenti-fusca; caudá, remigiumque basibus pallidè castanco-fuscis, lineá superciliari, genis, gulá abdomineque albis; hypochondriis cereino tinctis.

Long. tot. 7 unc., rost. 11; also, 2 1; canda, 3 1; tarsi, 19.

Head, all the upper surface, and wings reddish brown; tail and basal portion of the outer margins of the primaries and secondaries reddish chesuat brown; is stripe over the eye, throat, and all the under surface white, tinged, especially on the flanks, with fawn colour; bill ornage at the base, the tip brown; legs pale bluish; claws white; tongue bristled on the sides; near the extremity it is divided into little bristly points.

Habitat, Maldonado, La Plata. (June.)

This species frequents the same localities with the last, and I am unable to point any difference in its habits. Of the two specimens collected, the beak of one is very nearly one-tenth of an inch longer than that of the other; but this is almost wholly due to the sharp point of the upper mandible projecting beyond the lower mandible in the one, whereas they are nearly equal in the other.

1. OXYURUS TUPINIERI. Gould.

Synallaxis tupinieri. Less. Zool. de la Coqu. pl. 29. f. 1. Oxvurus ornatus. Secsius. 2 Cent. and 1. p. 324.

This bird is perhaps the most abundant of any land species inhabiting Terra del Fego. 1t is common along the west cost, (and numerous in Chiloc,) even as dist Fego. 1t is common long the west cost, and numerous in Chiloc,) even as far north as a degree south of Valparaiso; but the dry country and stanted woods of central Chile are not favoranthe to its increase. In the dark forests of Tierra del Fego, both high up and low down, in the most gloomy, wet, and scarcely penetralte ravines, this little bird may be met with. No dooble, it appears more common than it really is, from its habit of following, with seeming curiosity, every person who enters these silent woods; continually utering a hards livitie; it flutters from tree to tree, within a few feet of the intruder's face. It is far from wishing for the modest concealment of the crosper (Certakia familiaris); no does it, like that bird, run up the trunks of trees, but industriously, after the manner of a willow wree, hopes about and searches for insects on every twig and brash and as a willow wreen, hopes about and searches for insects on every twig and brash as

2. OXYURUS? DORSO-MACULATUS. Gould.

Synallaxis dorso-maculata. D'Orb. and Lafr. Voy. de l'Amer. Mer. Ois. pl. 14. f. 1.

Mac. de Zool. 1837, Cl. 11, p. 21.

My specimen was procured from Maldonado, (June), where it was not common. It frequents the same localities with Synallaxis malwoide, and the two species of Linuvorsis, and has very similar habits with them. In structure, and in the general shade of its plumage, it is closely allied to the foregoing species, although differing from it in habit.

GENUS .- DENDRODRAMUS. Gould.

Rostrum copitis longitudine, and longitus, culmine recto, gonide ascendente, per omne partes lateralite compresson, demant ed spice inemargiantum, naribus bundibus longitudinalibusque; alæ mediocres et inbomuniante, plumis tertia, quarta et quinda equalibus longississisque; canda mediocris, sopiis ultra radios in spinsu avatas productis; tera sub-bereces, digitis mediocris, sopiis ultra radios in spinsu avatas productis; tera sub-bereces, digitis medio megulisanço diogii, sis multum carratis, digitio externo valido et ferè digiti medii longitudine, digitis lateralibus inequalibus, internis multum berciaribus.

DENDRODRAMUS LEUCOSTERNUS. Gould

Plate XXVI

D. capite, doris parte superiore disque sigrescenti fuscis, robro-tiactis; primaritis secundariique subferrugineo fusco irregulariter marginatis, uropogio caudique nitidé ferrugineis, gull peteorque albis, abdomine medio refescenti fusco, singulis plunis ad apicem maculi magnd orali albi, hypochondriis saturatè rufis; rostro basi corno, apice pedhoupue nitro fuscio.

Long. tot. 6 $_{12}^{3}$ unc.; rostri, 1 $_{12}^{3}$; ala, 3; canda, 2 $_{12}^{3}$; tarri, $_{12}^{9}$

Head, upper part of the back and wings blackish brown, singed with red; primaries and secondaries irregularly margined with dull rusty brown; rump and tail rich ferruginous; throat and chest white; feathers of the centre of the abdomes reddish brown, with a large oval aport of white near the tip of each feather; flanks deep rufous; bill borny at the base, the remainder and the feet blackish brown.

Habitat, Chiloe and Southern Chile.

This bird is common in the forests of Chiloe, where, differently from the Oxyurus tupinieri, it may constantly be seen running up the trunks of the lofty forest







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Dendrodramus leucosternus.



18. 83

trees. Its manners appeared to me to resemble those of Certhin familiaris. I found Colcopterous insects in its stomach. Its range does not appear to be extensive; Chille to the south, and some woods near Rancagua (a degree south of Valparaiso) were the extreme points where I met with it. The Dendrodramus is not found in Terrar del Fuego, where the O. tapismer is so numerous. Mr. G. R. Gray remarks that this genus is very nearly allied to Dendroplex of Mr. Swainson.

FAMILY .- SYLVIAD Æ.

SUB-FAM -- MOTACILLINÆ.

1. Muscisaxicola mentalis. D'Orb. & Lafr.

M. mentalis, D'Orb. & Lafr. Mag. de Zool. 1837, p. 66.

I procured specimens of this bird from Bahia Blanca, in Northern Patagonia, from Terra ded Puego, from Childe, and from Central and Northern Chile. It is everywhere common. It frequents open places; so that in the wooded countries it lives entirely on the sea-beackes, or near the summits of mountains, where the one of the excessively sterile upper valleys of the Cordillera of Northern Chile! I met with this bird, even at a height of little less than ten thousand feet, where the last traces of vegetation occur, and where no other bird lives. It generally moves about in very small flocks, and frequents nocky streams and marshy ground: it hops and flies from stone to stone, every much after the manner of our whitchest (Matecille rubetra), but when alighting it frequently expands its tail like a fam. The sexes are exactly similar in size and plumage.

Mr. G. R. Gray observes, that the genus Muscisaxicola is probably synonymous with Lessonia of Mr. Swainson; but the latter name cannot be used, as it has already been twice employed in other branches of Natural History.

 Muscisaxicola MacLoviana. G. R. Gray. Sylvia madoviana, Gara. Voy. de la Coqu. Zool. p. 663. Currava medoviana. Lor.

I brought home only one specimen of this bird; it came from East Falkland Island, whence also those described by Messrs. Lesson and Garnot were procured. Mr. Gould considered it a distinct species, but having carefully compared it with M. mentalis, I can see not the smallest difference in any point, excepting that it

is somewhat larger in all its dimensions. The length of the whole body is .6 of an inch greater, of wing when folded .45, of tarsus .2, greater than in the foregoing species. I can scarcely hesitate in thinking it a large-sized local variety, from some favourable condition in the Falkland Islands to its growth.

3. Muscisaxicola brunnea. Gould.

M. grisco-fusca; gutture abdomineque albis flavescenti tinctis, pectore obscuro; alis caudique obscure fuscis, singulis plumis refescenti fusco marginatis; rectricum externarum radiis lateralibus flavescentibus.

Head, and all the upper surface greyish brown; wings and tail dark brown, each feather margined with reddish brown; the outer webs of the external tail feathers buffy white; throat and all the under surface white, slightly tinged with buff; bill and feet blackish brown.

Habitat, Port St. Julian, Patagonia. (January)

The only specimen I procured was immature

4. Muscisaxicola nigra. G. R. Gray.

Alanda nigra, Boddates

- fulva, Lath. Index.

Anthus fulvus, Vieill. Ency. Meth. p. 309.

variegatus, Gerv. & Endoux, Mag. de Zool. 1836, p. 26.

Sylvia dorsalis, King.

Lessonia erythronotus, Sscains. Class. of Bird. Alouette noire à dos fauve. Pl. enl. 738.

Alouette noire à dos fauve, Pl. enl. 738. L'Alouette à dos ronge, Azara, No. 149.

This bird has a wide geographical range. It is found in La Plata, Patagonia, Tierra del Poego, and on the west coast at least as far north as the valley of Copiapó, in Northern Chile. It is every where common: it is a quiet, tame, inoffensive little bird: it fives on the ground, and frequents sand-dunes, beaches, and rocky coasts, which it seldom leaves: the broad shingly beds of the rivers in Chile bare, however, tempted it inland, together with the Opetiorhynchus. I was told that it halids in low bushes.



1. Anthus correndera. Vieill.

Anthus correndera, Vieill. Ency. Meth. i. p. 325. La correndera, Azura, No. 145.

This titlark is found in La Plata, Chile, and the Falkhard Islands. I was informed by an intelligent sealer, that it is the only land-bird on Georgia and South Orkney (lat. 61° S): it has, therefore, probably a further range southward than any other hand-bird in the southern bennisphere. It does not live in flocks, is very common, and resembles a true Ahanda in most of its habits. This species (as well as the following) is so closely allied to our meadow pipit, Asthup pratussi, that Lathana considered it only as a variety; the latter has a high northern range, as the former has a southern one. There can be little doubt that the bird alluded to by Mr. Yarrell (British Birds, p. 20½, vol. 1.) as having been caught in the Southern Allantic Ocean, nine hundred miles from Georgia, was this species, which was mistaken, owing to its close similarity, for the true Aslanz partents:

2. Anthus furcatus. D'Orb. & Lafr.

A. furcains, HOrb. & Lafe, Mar. de Zool, 1836, p. 27. Vov. de l'Amer. Mer. Av. p. 227.

My specimens were procured on the northern bank of the Plata. It is more with the procured of the northern bank of the Plata. It is more obtained by the procured of the procured of the procured of the bank of the bank of the procured of the procured

3. Anthus Chil. Licht.

A. Chii, Liolt. Spix. Av. Sp. No. i. t. lxxvi. fig. 2, p. 75 Le Chii, Azara, No. 146.

My specimen was procured at Rio de Janeiro, in Brazil.

SYLVICOLA AUREOLA. Gould.

PLAYE XXVIII

S. supra flavescenti olivacon; fronte cervicoque mitide flavis, singulis plumis ad apicem rufescenti castaneis; occipite grisso; alis canddque nigrescentibus, lat? flavo-marginatis; genis guttureque nitide flavis; poctore concolori sed singulis plumis in medio pallide castaneo notatis; abbamine albescenti.

ong. tot. 5 unc.; rostri, A.; als. 2.5.; conds. 2.2.; tarsi, 14

The mape of the neck, back and tail-coverts yellorish dire; the wines and tail blackish, broadly margined with yellow; the front and coven yellow, with the tips of the feathers reddish custaneous; the hind head grey miles, with yellow, the checks and the throat bright yellow; the breast of the same colour, but each feather is marked down the middle with pale reddish castaneous, the sides and middle of the abdones white with pale reddish castaneous, the sides and middle of the abdones white.

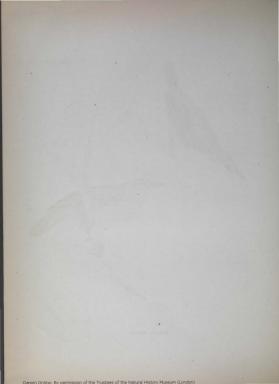
Habitat, Galapagos Archipelago. (September)

This bird is not uncommon on these islands. It has the habits of our Sylviæ. It frequents the thickets in the lower, dry and rocky parts of the island, and especially a peculiar bush, with thick foliage, which grows only near the sea-coast

CYANOTIS OMNICOLOR. Surgins.

Regulus omnicolor, Vieill. Gal. pl. 166. Sylvia rubrigastra, Vieill. Regulus Byronensis, Gray, Griff. An. King. p Tachuris omnicolor, WOrb. & Lafr.

My specimens were obtained at Maldomado in June, and therefore probably it is not a bird of passage. It frequented receives on the borders of a lake, but was exceedingly rare. I likewise saw one in Northern Patagonis, and in a collection of birds at Satiniga, in Chile, made there by an inhalitant of the place. The soles of the feet of this exquisitely beautiful little bird are bright orange.





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Sylvicola aureola.



TRICHAS VELATA. G. R. Gray.

My specimen was procured at Maldonado in June.

FAMILY .- FRINGILLIDÆ.

SUB-FAM.-ALAUDINÆ.

MELANOCORYPHA CINCTURA. Gould.

M. Fæm. fuscescenti rufa; gulâ abdomineque medio pallidioribus; remigibus ad apicem nigrescenti fuscis; rectricibus singulis maculâ albă ovată nigrescenti fuscă ad apicem untatis.

Long. tot. 5 unc. ; alw, 3 ; canda, 2 ; tarsi, 2 ; rost. 4.

The whole of the plumage, bill, and feet, sandy rufous brown, which is lightest on the throat and centre of the abdomen; primaries near their extremities passing into blackish-brown; and each of the tail feathers with a large oval spot of blackish-brown near the tip.

Habitat, St. Jago, Cape Verde Islands. (September.)

This bird inhabits the most arid plains of lava; it runs, and in its habits resembles, in many respects, a lark.

Pyrrhalauda nigriceps. Gould.

P. supra fuscescenti alba, plumis medio obscurioribus; fronte, genis linedque pectoris utrinque albis; corpor infra linedque à basi rostri supra oculos ad occiput transiente missis caudas plumis mediis nigrescentibus fuscescenti albo marginatis, plumis externis atris.

Long. tot. $4\frac{a}{5}$ unc., alw, $2\frac{a}{5}$; caude, $1\frac{a}{5}$; tarsi, $\frac{a}{15}$; rost. $\frac{a}{15}$

Upper surface brownish-white, with the middle of the feathers darker; the front, checks, and a line on each side of the breast white; beneath the body, and a line from the bill passing over the eyes to the hind head, black; the tail with the middle feathers blackish, margined with brownish-white, the outer feathers deep black; the bill and feet pale. Habitat, St. Jago, Cape Verde Islands, (September and January.)

Like the last species, this bird inhabits sterile lava plains; it runs like a lark, and generally goes in small flocks.

SUB-FAM _PVRRHULINÆ.

SPERMOPHILA NIGROGULARIS. Gould.

S. capite corporeque supra, alis caudáque fusco cinereis; loris gulâque nigris; lineis à rostri angulis per collum utrinque descendentibus, pectore abdomineque mediis, tegminibusque caudalibus inferioribus cineros albis.
Fem. ? supra olivacos fusca, subtus pallidior.

Tonn tot 2 max - alm 2) - sanda 2 - tami 5 : matri

ong. tot. 3 unc.; ale, 21; cande, 2; tarsi, 8; restri,

Male.—Head, all the upper surface, wings and tail, brownish-grey; lores and throat black; lines from the angle of the bill down each side of the neck, centre of the chest and abdomen, and the under tail coverts greyish-white; bill light horn colour; feet dark-brown.

Female?—The whole of the plumage olive-brown above, and lighter beneath; bill and feet brown.

Habitat, Monte Video. (November.)

1. CRITHAGRA? BRASILIENSIS.

Fringilla Brasiliensis, Spir. Av. Sp. Nov. ii. t. lxi. f. 1. m. 2. fem. p. 47

My specimens were obtained from the northern bank of the Plata, in the months of June and November.

2. CRITHAGRA? BREVIROSTRIS. Gould.

C. vertice dorsoque pallide olivacco fuscis, plumis singulis striá angustá mediá nigrofusci, pennis scapularibus alis caudaque nigrofuscis cinerco olivacco late marginatis; uropygio virescenti flavo; lovis, guid, pectore humero infra, abdomine, tegminibusque cauda inferioribus late flatis.

Long. tot. 5 unc.; rostri, \$\frac{7}{16}\$; also, \$2\frac{1}{6}\$; cando, \$2\frac{1}{6}\$; tarvi, \$\frac{1}{6}\$.

Crown of the head and back, light olive-brown, with a narrow stripe of blackishbrown in the centre of each feather; scapularies, wings and tail, blackishbrown, broadly margined with greyish olive; rump greenish-yellow; lores, throat, chest, under surface of the shoulders, abdomen, and under tail-coverts bright yellow: bill and feet brown.

Habitat, Maldonado (May), and Valparaiso (September).

Near Maldonado, I saw very large flocks of this species feeding on the open grassy plains. When the whole flock rises, these birds utter a low but shrill chirp. In Chile I obtained only one specimen

Sub-Fam.—EMBERIZINÆ

1. Emberiza gubernatrix. Temm.

My specimen was procured on the banks of the Parana, near Santa Fe, in latitude 31° S.

Emberiza luteoventris. G. R. Gray.
 Frinzilla luteoventris. Mesen. Nov. Act. 1880, pl. 12. f. 2.

This bird was procured at Santa Cruz, in Southern Patagonia; it was rare

CHRYSOMETRIS CAMPESTRIS. Gould.

Fringilla campestris, Spix. Avium Nov. Sp. ii. p. 47, pl. 59, f. 3. §

C. Mas: olivaceus; dorsi plumis singulis flaco marginatis, uropygii præsertim; vertice, gulå, alis caudòque nigris, alis caudòque plus minusve flavo-marginatis; capitis lateribus corporeque infra latè flavis.

ng. tot. 4 unc. 11 lin.; rost. 5 lin.; ala, 24; asuda, 24; tarsi, 7 lin

Male; olivaceous, with each feather of the back margined with yellow, especially on the rump; the top of the head, throat, wings and tail, black, the two latter margined more or less with yellow; the sides of the head and beneath the body bright yellow.

Habitat, forests of Tierra del Fuego (February), Valparaiso (September).

N

See For - PRINCHLINE

1. Ammodramus longicaudatus. Gould.

PLANE XXIX

A. vertice humeroque cinerofuscis, dorso pallescenti fusco, uropygio rufescenti fusco tincto, plamis singulis strigă mediă fuscă; tectricibus alarum unipribus, remigibus primariis secundariisque et caudă nigrescentibus, cinereo albo externe marginatis; fronte, strigă superciliari corporoque infra flavescentibus.

Long. tot. 52 unc.; ale, 22; cande, 3; tarsi, 2; restri, 2;

Crown of the head and shoulder, greyish brown; back, light brown, tinged with redish brown on the runp, and with a stripe of dark brown down the centered of each feather; greater wing-croverts, primaries, secondaries, and tail blackish, and the under surface, buff; bill black; feet brown. Young, or a bird after gaining its new plumage, differs in having the whole of the upper surface rich brown, with a tinge of olive and with a stripe of dark brown down each feather, and in having the wing covers margined with redisk instead of greyish brown.

Habitat, Monte Video (November), Maldonado (June).

At Maldonado this bird frequented, in small flocks, reeds and other aquatic plants bordering lakes. In general babits, as well as in place of resort, it resembles those species of Synallaxis and Linnornis, with which it is often associated. It appears to live entirely on insects, and I found in the stomach of one which I opened various minute Colcoptera. Mr. Gould remarks, that the structure of this Annuodramus is very remarkable, for that it has a great general resemblance both in form and colouring to Synallaxis, although the thickness of its bill shows its relation to the Fringillina. In its habits it certainly is more allied to the former genus, than to its own family.

2. Ammodramus Maninbe. G. R. Gray.

PLATE X

Ammodramus xanthornus, in Plate, and in Gould's MS. Fringella Manimbè, *Liolta*, Cat. No. 253. Emberiza Manimbè, *D'Orb. & Lofr.*, Syn. p. 77. Manimbè, *Augra*, No. 141.

My specimen was obtained from Maldonado.









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Ammodramus longicaudatus.









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1 ZONOTRICHIA MATUTINA. G. R. Grav.

Fringilla matutina, Liols, Cat. 25.

Kitel. Kupfertafeln der Vögel, pl. 23. f. 3.

Tanagra ruficollis, Spisz, Av. Sp. Nov. ii. t. liii. f. 3. p. 33.

Chinrolo. Acarea, No. 135. Chingolo Bunting, Latel. Hist.

I procured specimens of this species from the banks of the Platta, Bahis Blanca in Norther Platagonia, and from Valparais in Chile : these countries it is perhaps the commonest bird. In the Cordillera, I have seen it at an elevation of a least 1000 feet. It generally perfects inhabited places, but it has not attained the air of domestication of the English sparrow, which bird in habits and general appearance it represents. It does not go in flocks, although several may be frequently seen feeding together. At Monte Video I found on the ground the nest of this species. It contained three eggs; these were 7.5 of an iach in length; form, rather rounded; colour, dirty white, with numerous small spots of chesmut and blackish brown, innest confluent towards the broadest end. It was in this nest that I found the parasitic egg, supposed to belong to a species of Molothrus, described in my journal.*

2. ZONOTRICHIA CANICAPILLA. Gould.

Z. vertice cinereo; loris regioneque paroticá obscure fuscis: dorso collique lateribus rufis, dorso superiori et uropygio fuscis; dorso medio nigrescenti fusco, plumis singulis pallido fusco marginatis; tectricibus alarum nigrescenti fuscis, rufescente fusco marginatis, apice allis, duas fuscias obliquas trans alarum formantibus.

Long. tot. 5\(\frac{1}{2}\) unc.; ala, 2\(\hat{1}\); cambr. 2\(\hat{1}\); tarzi, \(\hat{1}\); restri, \(\hat{1}\).

Crown of the head grey; lores and ear-coverts dark brown; back and sides of the neck rufous; upper part of the back and rump brown; centre of the back blackish brown, each feather margined with light brown; wing-coverts blackish brown, margined with reddish brown, and tipped with white, forming two oblique bands across the wing; primaries, secondaries, and tail, dark brown, margined with greyish brown; throat and all the under surface brownish grey; and feet brown.

Habitat, Port Desire in Patagonia, and Tierra del Fuego.

This species is not uncommon in Tierra del Fuego, wherever there is any open

^{*} Journal of Researches during the Voyage of the Beagle, p. 60.

space. Of the few birds inhabiting the desert plains of Patagonia, this is the most abundant. At Port Desire I found its nest: egg, about .85 in length; form somewhat more elongated than in that of the last species; colour, pale green, almost obscured by minute freekles and clouds of pale dull red.

3. Zonotrichia strigiceps. Gould.

Z. cupit custano, lind unchi obscure divin, planui singulis strid unchi sigrofunci, huncri flexur rgd; corpore supra fuscocente, planui singulis strid latd meliti obscure fusci; renigibus, primaviis candique nigro-fuscis pallide fusco marginatis strigi superciliari, facia collique lateribus, gulà pector abdominopa medio cineris; happochandris tegminibuque cande inferiorbus fusercentibus.

Long. tot. 5 unc.; rostri, 1; ala, 21; caude, 21; tarsi,

Head chestunt, divided down the middle by a line of deep gray, each feather with a stripe of blackish bown down the centre; point of the shoulder rations; the remainder of the upper surface light brown, with a broad stripe of dark brown down the centre of each feather; primaries and tail brown; secondaries blackish brown, margined all round with pale brown; stripe over each eye, sides of the face and neck, throat, broast, and centre of the abloemen, grey; flanks and under tail-overets buff; upper mandible black; under mandible light born colour; feet brown.

Habitat, Santa Fe. Lat. 31° S. (October.)

This species appears to replace in this latitude the Z. matutinu, which is so abundant on the banks of the Plata and in Chile, as that species does the Z. canicapilla of Patagonia and Tierra del Fuego.

Passerina Jacarina. Vieill.

Tanogra jacarina, Lion.
Passerina jacarina, Vicill, Ency. Meth. p. 93:
Emberina jacarina, Vicil, Ency. Neth. p. 93:
Le Santeur, Azara, No. 138.
Euphone jacarina, Liolde Cat. p. 39.
Frincilla schedulens. Vicil, Ency. p. 981?

I procured a specimen of this bird at Rio de Janeiro

9:

1. FRINGILLA DIUCA. Mol.

Fringilla Dinca, Kittl. Mem. de St. Petersb. t. i. pl. 11.

—— Mag. de Zool. 1837, pl. 69.

Emberim Dinca, D'Orb. et Lafr. Syn. Mag. of Zool. 1838, f. 77.

This bird is very common on the coast of Chile, from the humid forests of Childe to the desert mountains of Copiano. In Childe it is perhaps the most abundant of the land birds; south of Chiloe I never saw it, although the nature of the country does not change them. On the eastern side of the continent, I met with this bird only at the Rio Negro, in northern Patagonia. I do not believe it inhabits the shores of the Plata, although so common in the open country, under corresponding latitudes west of the Cordillera. The Diuca, as this Fringilla is called in Chile, generally moves in small flocks, and frequents, although not exclusively, cultivated ground in the neighbourhood of houses: habits very similar to those of the Zonotrichia matutina. During incubation, the male utters two or three pleasing notes, which Molina has in an exaggerated description called a fine song. In October, at Valparaiso, I found the nest of this bird in the trellis-work of a vineyard, close by a much frequented path. The nest is shallow, and about six inches across; the outer part is very coarse, and composed of the thin stalks of twining plants, strengthened by the husky calices of a composite flower; this outside part is lined by many pieces of rag, thread, string, tow, and a few feathers. Eggs rather pointed, oval, '94 of an inch in length; colour, pale dirty green, thickly blotched by rather pale dull-brown, which small blotches and spots become confluent, and entirely colour the broad end

2. FRINGILLA GAYI. End. & Gerv.

Fringilla Gayi, Eyd. & Gerv. Mag. de Zool. 1834. pl. 23. Emberiza Gayi, var. D'Orb. & Lafr. Syn. p. 76.

This Fringilla, which was first brought from Chile, is abundant in the southern parts of Patagonia.

3. FRINGILLA FORMOSA. Gould.

F. fronte lorisque nigris; vertice, genis, gulá, alarum tegminibus cæruleo griscis, tegminibus primariis, seemadariis rectricibusque grisco-sigris, cærulescenti-grisco marginatis, dorso flaescentic isatanoe; tegminibus candalibus inferioribus pallidê griscis; uropygio pectore abdomine hypochondriisque saturatê flatis.

ong, tot. 5\u00e5 unc.; ala, 3\u00e4; casslar, 2\u00e4; tarri, \u00e4; rostri, \u00e4.

Forehead and lores black; crown of the head, sides of the face, throat, wing

coverts, and the margins of the primaries, secondaries, and tail feathers, blue grey; the remainder of the primaries, secondaries, and tail feathers, greyishblack; back yellowish-chestnut; under tail coverts light-grey; rump, breax, abdomen and flanks, deep wax-yellow; bill bluish horn-colour; feet light brown.

Habitat, Tierra del Fuego (December and February).

This finch is common on the outskirts of the forests in Tierra del Fuego. Mr. Gould remarks, that it is nearly allied to F. Gayi, but it is much smaller, and is richer in its colouring.

4. FRINGILLA FRUTICETI, Kittl.

I obtained specimens of this bird from Northern Chile, and Southern Pattern gonis. I saw it also in the Cordillera of Central Chile, at an elevation of at least eight thousand feet, near the upper limit of vegetation. In Patagonia it is not common, if frequents bashy valleys in small flocks, from six to ten in number. These birds sometimes more from thicket to thicket with a peculiar soaring flight: they covasionally utter very simular and beleasing notes.

5. FRINGILLA CARBONARIA. G. R. Gray.

I never saw this bird but once, and then it was in small flocks, on the most deert parts of the plains between the rivers Negro and Colorado, in Northern Paragonia

6. FRINGILLA ALAUDINA. Kittl.

Fringilla alaudina, Kupf. der Vögel, pl. 23. f. 2. Emberiza guttata, Myos, Nov. Act. Cur. xvii. pl. 12. — DOrl. & Lofr. Syn. p. 78: Adalt. Passerina guttata, Eyd. & Gorv. Mag. de Zool. 1834. pl. 70. p. 22.

My specimens were obtained from the neighbourhood of Valparaiso.







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Passer Jagoensis.









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RIRDS

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1. Passer Jagoensis. Gould.

Purnita Innonesia Could Press of Test See

P. summo capite, et maculá parvá gulari intensè nigrescenti-fuscis; strigá superciliari,

P. sumno capite, et macula pared gudar intensè agreccasti-pasci; strigà supercituri, collo, humeri derosque intensè catancis, huju somui strigd funci centrali notati; alis candique branneis, tetricibus alarem minoribus albir, qui color fusciam transversam efficit : lined angusta tabbà arare ad oculum; genis corporque subbìs albir, hoc color si cinercum ad latera transcente: rostro, pedibasque fuscis.

Long. tot. 5 unc.; cauda, 21; ala, 21; rost. 1; tarsi, 1.

Crown of the head and a small mark on the throat intense blackish brown, with a stripe on the eyelwows, the neck, shoulders and back bright chestnut, the feathers of the latter marked with a central dusky streak; wings and tail brown, with the smaller wing overest white, forming a transverse bar; a narrow white line from the nostrils to the eye; checks and under side of body white, this colour passing into grey on the sides; beak and feet dusky.

Habitat, St. Jago, Cape Verde Islands (January).

This is the commonest bird in the island; it frequents, generally in small flocks, both the neighbourhood of houses and wild uninhabited spots. It was building its nest townds the end of Aucust.

2. Passer Hispaniolensis. G. R. Gray.

Fringilla Hispaniolemis, Tensus. Man. i. 353.

In the month of January I obtained a specimen of this bird from St. Jago, one of the Cape Verde Islands, where it was not common.

1. Chlorospiza? Melanodera. G. R. Gray.

Emberiza melanodera. Ossov & Geiss. Vov. de L'Uranie. Zool. i. p. 109.

C. fluenceati dimone; doran superiori cinero refupue minte; vortine, marino, calle theritos perturque cinerori refunetiri; finad di autribus perturque cinerori refunetiri; finad di autribus perturque cinerori refunetiri; finad di autribus pose conductate gonisquentia dibis; plumis inter rostrum et oculos galdipue atris; remigilos primariis et secondonii regrezoentibus parao marginatis: condui restricibus modisi olivenco-ficiosi, ribus ca-callo retrivitus modisi olivenco-ficiosi, ribus ca-callo retrivitus modisi olivenco-ficiosi, ribus ca-callo retrivitus dendi olivencia di para contra fina di para perturbus contra di para contra contra di para contra di para

Adult. Yellowish olive, mixed with grey and rufous on the upper part of the back;

top of the head, cars, sides of the neck and breast, gray mixed with rations; the lines from the nostrifs reaching behind the eyes and checks, white; the space between the bill and eye, and the threat, deep black; the primaries and secondaries blackish, margined with yellow; the tail, with the middle feathers, divaceous black, with the three external nearly wholly pale yellow; the middle of the abloom yellowish white, with the flanks darker.

Young: Upper surface brownish white, with the middle of each feather black; the threat lighter; the wing coverts and secondaries margined with white and brown; the primaries with yellow; the tail blackish, with their outer margins yellow, and the external feather wholly pale yellow white; beneath the body pale yellowish white, streaked on the breast and flanks with a darker tink.

Habitat, East Falkland Island (March), and Santa Cruz, Patagonia (April).

This bird is extremely abundant in large scattered flocks in the Falkland Islands.

2. Chlorospiza? xanthogramma. G.R. Gray.

C. cincracenti ditanea, rufo punto tineta; lined à naribus poue oculos transiente genisque flavis; plamis inter rustrum et oculos guldopue atris; remigibus secundariis nigreocentibus, cincro et olivaceo luté marginatis; primarius nigreocentibus, flavo anguate marginatis; cundic cincracenti nigră, plumis externis albis; corpore infra flavecenti allo, hapochoduriis observarioribus.

Long. tot. 74 unc.; alor, 37; anulor, 3; tarzi, 1; restri, 7 lin.

Adult: Greyish olive, very slightly mixed with raflows, a line from the nostrisit reaching behind the eyes and checks, yellow; the space between the bill and eye, and the entire throat, deep black; the secondaries blackish, broadly margined with grey and olive; the primaries blackish, slightly margined with yellow; the tail greyish black, with the outer feathers white; beneath the body vellowish white, darker on the flanks.

Female: Upper surface brownish white, with each feather blackish brown in the middle, the head and throat paler; the unigo-covers and secondaries blackish, margined with brownish white; the primaries blackish, slightly margined with yellow; the tail blackish white-margined, with the outer feathers nearly wholly white; beneath the body yellowish white, streaked with brown on the breast and flanks; and the space from the nostrils reaching to behind the eves and checks, yellowish.

Habitat. East Falkland Island (March), and Tierra del Fuego (February).

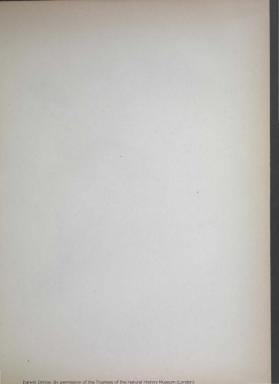




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Chlorospiza Kanthogramma.









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Tanagra Darwini



9

This species is common at the Falkland Islands, and it often occurs mingleds with the hast one. I suspect, however, it more commonly in the same flock with the hast one. I suspect, however, it more commonly in the parts of the hills. These species have a very close general resolutions; a but the marks about the head, which are white in the Landsanders, are yellow in the C. resultsformans, while the parts of the tail-feathers which are white in the latter, are yellow in the C. resultsformans. The common the common that th

CHRYSOMITRIS MAGELLANICA. Bonap.

Fringilla Magellanica, Vicill. Ency. Meth. 983; Ois. Chant. de la Zône Torride, pl. 30; Audubon, Birds of Am. pl. 334, f. 2.
Gafarron, Augus, No. 134.

Fringilla icterica, Licht. Cat. p. 26.

This bird was very abundant in large flocks during May, at Maldonado; I found it also at the Rio Negro.

SUB-FAMILY.-TANAGRINÆ.

PITYLUS SUPERCILIARIS.

PITYLUS SUPERCILIARIS.

Tanagra superciliaria, Spir. Av. Sp. Nov. 2. t. Ivii. fig. 1. p. 44.

My specimen was procured from Santa Fé, in Lat. 31° S.

1. AGLAIA STRIATA. D'Orb. & Lafr.

PLATE XXXIV.

§ Tanagra striata, Gmel. Syst. 1. 899; Ency. Meth. 776; Licht. Cat. p. 31. Sp. 347; Proc. Zool. Soc. 1837, p. 121, pl. 34 of this work.

L'Onglet, Buff. iv. p. 256.

le Lindobleu, dore et noir, A

2 Tanagra Darwinii, Bosap.; Proc. Zool. Soc. 1837, p. 121.

I saw the only specimen, which I procured, feeding on the fruit of an opuntia at Maldonado.

Mr. G. R. Gray is induced to consider the species figured under the name of T. Darwinii, as the T. striata, Gm. and the T. Darwinii of the Zoological Society's Proceedings, as the female of the same species, while the young birds may be described as following:

Brown, with the margins of the dorsal feathers greenish-brown, those of the wings and tail margined brownish-white; head and neck greyish-green; beneath the body pale dusky green, somewhat darker on the breast and sides; uropygium yellowish-green.

Three specimens of this species are contained in the British Museum, exhibiting male, female, and young.

2. Aglaia Vittata.

Tanagra vittata, Temm. Pl. Maldonado; not common.

PIPILLO PERSONATA. Swains.

P. personata, Semine. Two cent. and a quart. p. 311.

Maldonado; not common. The stomach of one, which I shot, contained

EMBERIZOIDES POLIOCEPHALUS. G. R. Gray.

E. olivocas, dorri planti medio nigro striati; capite gulopue cinercis, priore planti singulis, medio nigrastriati; corpore infra rufescent allo; hopechoadriis tetricibus canda inferioribus observieribus; alarum margine late flava, renigibus primariis secundariisque nigris; prioribus pallide olivaceo, posterioribus olivascente flavo late marginatis.

Long. tot. 73 unc.; alm, 34; cander, 4; tarsi, 12; rostri, 8 lin.

Olivacous, with the feathers of the back marked down the middle with black; the bead and throat cineroos, with each feather of the former streaded down the middle with black; beneath the body rafous white, darker on the flanks and under tail coverts; the border of the wings bright yellow, the secondaries and primaries black, the former broadly margined with pale olive, the latter with bright olivacous yellow; base of bild dasky orange.

Habitat, northern shore of the Plata. (May and August.)

This bird is common both near Monte Video and Maldonado, in swamps. Stomach full of seeds: it makes a shrill loud cry: its flight is clumsy, as if its tail were disjointed.

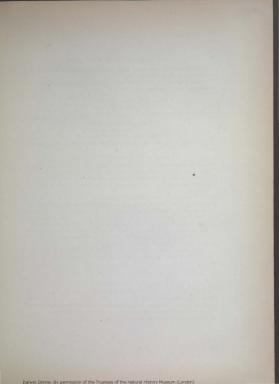
FAM.—COCCOTHRAUSTINÆ.

Genra Grospitz Gould

Corporis figura brevissima et robusta.

Rostrum magnum, robustum, validum, altitudine longitudinem præstante; culmine arcuato et capitis verticem superante, apice sine denticulo, lateribus tumidis.

Naribus basalibus et semitectis plumis frontalibus.







Pipilo personata.



Mandibulá superiori tomiis medium versus sinum exhibentibus, ad mandibulæ inferioris processum recipiendum. Mandibula inferior ad basin lata, hoc infra oculos tendente. Ala mediocres remige primo paulo breviore secundo, hoc longissimo.

Cauda brevissima et aqualis.

Tarsi magni et validi, digito postico, cum unque robusto et digito intermedio breviore: divitis externis inter se aqualibus at digito postico brevioribus. Color in maribus

This singular genus* appears to be confined to the islands of the Galapagos Archipelago. It is very numerous, both in individuals and in species, so that it forms the most striking feature in their ornithology. The characters of the species of Geospiza, as well as of the following allied subgenera, run closely into each other in a most remarkable manner.

species, and this almost necessarily would cause a fine gradation in their characters. Unfortunately I did not suspect this fact until it was too late to distinguish the specimens from the different islands of the group; but from the collection made for Cantain FitzRoy. I have been able in some small measure to rectify this omission.

In each species of these genera a perfect gradation in colouring might, I think, be formed from one jet black to another pale brown. My observations showed that the former were invariably the males; but Mr. Bynoc, the surgeon of the Beagle, who opened many specimens, assured me that he found two quite black specimens of one of the smaller species of Geospiza, which certainly were females: this, however, undoubtedly is an exception to the general fact; and is analogous to those cases, which Mr. Blythe has recorded of female linnets and some other birds, in a state of high constitutional vigour, assuming the brighter plumage of the male. The jet black birds, in cases where there could be no doubt in regard to the species, were in singularly few proportional numbers to the brown ones: I can only account for this by the supposition that the intense black colour is attained only by three-year-old birds. I may here mention, that the time of year (beginning of October) in which my collection was made, probably corresponds, as far as the purposes of incubation are concerned, with our autumn, The several species of Geospiza are undistinguishable from each other in habits; they often form, together with the species of the following subgenera, and likewise with doves, large irregular flocks. They frequent the rocky and extremely arid parts of the land sparingly covered with almost naked bushes, near the coasts:

^{*} This genus, and the following sub-genera, were named by Mr. Gould at a meeting of the Zool. Soc. Jan. 10

⁺ Remarks on the Plumage of Birds, Charlsworth's Mag. of Nat. History, vol. i. p. 480.

for here they find, by scratching in the cindlery soil with their powerful beaks and claws, the secds of grasses and other plants, which rapidly spring up during the short rainy scason, and as rapidly disappear. They often eat small portions of the succulent leaves of the Opazia Galappear. They often eat small portions of the succulent leaves of the Opazia Galappear, by the safety of the sake of the moisture contained in them: in this dry climate the birds suffer much from the want of water, and these finches, as well as others, daily crowd round the small and scanty wells, which are fromd on some of the islands. I seldom, however, saw these birds in the upper and damp region, which supports a thriving vegetation; excepting on the cleared and cultivated fields near the houses in Charles Island, where, as I was informed by the colonists, they do much injury by digging up roots and sects from a depth of even six inches.

1. Geospiza magnirostris. Gould Plate XXXVI.

G. fuliginosa, crisso cinerascenti-albo; rostro nigro-brunnescente lavato; pedibus nigris.

Long. tot. 6 unc.; ala, $3\frac{1}{2}$; conda, 2; tarsi, 1; restri, $\frac{1}{6}$; alt. rest. 1.

Fœm. vel Mas jun.; corpore intensè fusco singulis plumis olivaceo cinctis; abdomine pallidiore; crisso cinerascenti-albo; pedibus et rostro, ut in mare adulto.

Sooty black; with the vent cincreous white, the bill black, washed with brownish, and the feet black.

Female, or young male: Deep fuscous, with each feather margined with olive, the abdomen much paler, with the under tail-coverts cincreous white, the feet and bill like those of the male.

Habitat, Galapagos Archipelago. (Charles and Chatham Islands.)

I have strong reasons for believing this species is not found in James's Island. Mr. Gould considers the G. magnirostris as the type of the genus.

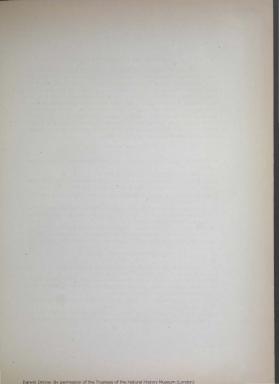
2. Geospiza strenua. Gould. Plate XXXVII.

G. fuliginosa, crisso albo, rostro fusco et nigro tineto; pedibus nigris.

Form. Summo corpore fusco singulis plamis alarum caudaque plumis exceptis, pallidè cineruscenti-olivacco cinettis; gulà et pectore fuscis; abdomine lateribus et crisso nallidè cineruscenti-fuscis; rostro brunnescente.

Sooty black, with the under tail coverts white; the bill brown, tinged with black, and the feet black.

Female: Upper part of the body fuscous, with the margins of each feather, except those of the wings and tail, pale cinereous-olive; the throat and breast

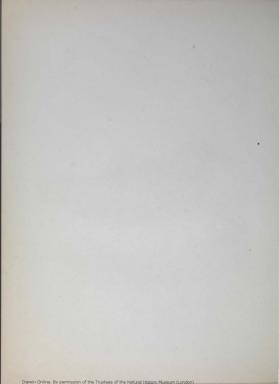


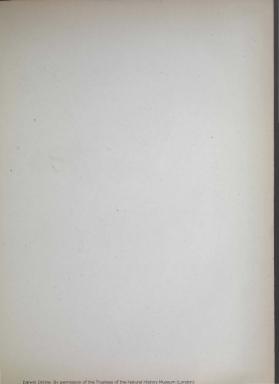




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Geospiza magnirostris





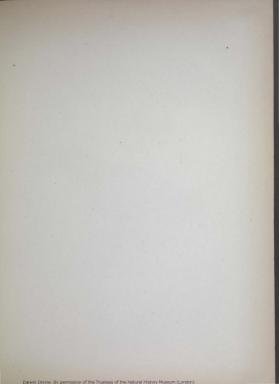




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Geospiza strenua.









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Geospira fortis



fuscous: the abdomen, sides, and under tail-coverts pale cinereous-fuscous; the bill brownish.

Habitat, Galapagos Archipelago (James and Chatham Islands.)

GEOSPIZA FORTIS. Gould.

G. intense fuliginosa, crisso albo; rostro rufescenti-brunneo, tincto nigro; pedibus nigris.

nigris.

Foem. (vel Mas jun.) Corpore suprà pectore et gutture intensè fuscis, singulis plumis einerascenti-olivaceo marginatis; abdomine crissoque pallidè cinerascenti-brunneis; rastro rutescenti-fusco ad apicem flavescente; pedibus ut in mare.

Long. tot. 4\(\frac{3}{4}\) me.; als, 3; caude, 1\(\frac{1}{4}\); tarsi, \(\frac{1}{4}\); restri, \(\frac{7}{4}\);

Deep sooty black; with the under tail-coverts and the bill reddish brown tinged with black; the feet black.

Female (or young male): The body above, breast and throat, deep fuscous, with each feather margined with cinereous-olive: the abdomen, and under tailcoverts pale cinereous-brown; the bill reddish fuscous, with the apex yellowish, and the feet like those in the male.

Habitat, Galapagos Archipelago, (Charles and Chatham Islands.)

4. Geospiza nebulosa. Gould.

G. summo cupite et corpore nigrescenti-fuscis; singulis plumis cinerascenti-olivaceo marginatis; corpore subtus pallidiore, abdomine imo crissoque cinerascentibus; rostro et pedibus intensè fuscis.

Long. tot. 5 unc.; alw, 22; cambr, 12; tarri, 2; restri, 2; alt. rost. 3.

MALE.—Upper part of the head and body blackish fuscous, with each feather margined with cinereous olive; the body beneath paler, with the lowest part of the abdomen and under tail-coverts ashy; the bill and feet deep fuscous. Habitat, Galapagos Archipelago, (Charles Island.)

5. Geospiza fuliginosa. Gould.

G. intensè fuliginosa, crisso albo, rostro fusco; pedibus nigrescenti-fuscis. Long. tot. 4\(\frac{1}{2}\) unc.; alo, 2\(\frac{1}{2}\); cambe, 1\(\frac{1}{2}\); testri, 1\(\frac{1}{2}\); alt. restri, \(\frac{1}{2}\).

Form. Summo corpore, alis, caudăque intense fuscis; singulis plumis cinerascentiferrugineo marginatis; corpore infra cinerco, singulis plumis medium versus obscurioribus; rostro brunneo; pedibus nigrescenti-brunneis.

Deep sooty black, with the under tail coverts white; the bill fuscous, and the feet blackish fuscous.

Female: Upper part of the body; the wings and tail deep fuscous, with each feather margined with asly ferrugineous; beneath the body cinereous, with each feather towards the middle darker; the bill brown, and the feet blackish brown.

Habitat, Galapagos Archipelago. (Chatham and James' Island.)

6. Geospiza dentirostris. Gould

G. (Penn. vel Mas jun.) mandibulæ superioris margine in doeten producto, vertice corporcepue supra fuecis; singulis plantis medium versus observioribus; secundariis tectricibusque alarum ad marginem stramineis; gutture et pectore pallidê brameissingulis plantis medium versus observioribus, imo abdomine crissoque cineruscentialbis; rostor professoc; pedius observi plantis.

Long. tot. 42 unc.; ale, 22; cande, 12; rostri, \$; alt. rost.

The margin of the upper mandble produced into a tooth; the vertex and above the body functions, with each father towards the middle darker; the margins are of the secondaries and wing coverts straw colour; the throat and breast pale brown, darker towards the middle of each feather; the sides and under tailcoverts cincrous white; the bill rufous fuseous, and the feet obscure lead colour.

Habitat, Galapagos Archipelago.

Mr. Gould considered this specimen a female, from the appearance of its plumage; but from dissection, I thought it was a male.

7. GEOSPIZA PARVULA. Gould.

G. (Mas) capite, gutture, et dorso fuliginosis; uropygio cinerascenti-olivaceo; caudá et alis nigreoceatis brunneis; singulis plumis caudæ et alarum, cinero-marginatis; lateribus olivaceis, fusco guttatis; abdomine et crisso albis, rostro et pedibus nigrescarti hrumeis

Long. tot. 4 unc.; alo, 2½; caudo, 1½; tarsi, ½; rostri, ½; alt. rost. 4.

Form. Summo capite et dorso cinerascenti-brunneis, gutture, pectore, abdomine crissoque pallidè cinereis, stramineo tinctis.

The head, throat, and back, sooty black; the lower part of the back cinereous olive; the tail and wings blackish brown, margined with cinereous; the sides olive with fascous spots; the abdomen and under tail-coverts white; the bill and feet blackish brown.

Female: The upper surface cinereous brown; the throat, breast, abdomen, and the under tail coverts, pale cinereous tinged with straw colour.

Habitat, Galapagos Archipelago, (James' Island.)







Geospiza parvula









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Camarhynchus psittaculus.









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Camarhynchus crassirostris.

8. Geospiza dubia. Gould.

G. (Feem. Mas ignot.) summo capite et corpore suprà fuscis, singulis plumis cinerascenti-olivaceo marginatis; strigă superciliari, genis, gutture, corpore infrà cinerascenti-olivaceis, singulis plumis notá centrali fuscá; alis caudáque brunneis singulis plumis olivaceo-cinereo marginatis : rostro sordide albo, pedibus obscure fuscis. Long. tot. 3 unc.; ale, 24; caude, 14; tarri, 4; rostri, 4: alt. rostri, 2.

Upper surface fuscous, with each feather margined with cinereous olive; the streak above the eye, cheeks, throat, and beneath the body, cinereous olive. with the middle of each feather fuscous; the wings and tail brown, with each feather margined with cinereous ash; the bill white, and the feet obscure fuscous.

Habitat, Galapagos Archipelago, (Chatham Island.)

Sun-Gunua CAMARHYNCHUS. Gould.

CAMARHYNCHUS differt a genere Geospiza, rostro debiliore, margine mandibulæ superioris minus indentato; culmine minus elexato in frontem et plus arcuato; lateribus tumidioribus; mandibulà inferiore minus in genas tendente.

Camarhonehus nsittaeulus is the typical species.

1. CAMARHYNCHUS PSITTACULUS. Gould. PLATE XL.

C. (Form.) summo capite corporeque superiore fuscis; alis caudáque obscurioribus; gutture corporeque inferiore, cinerascenti-albis, stramineo tinctis; rostro pallide flavescenti-fusco : pedibus fuscis.

Long. tot. 47 unc.; ala, 27: caude, 12: tarsi, 1: restri 1; alt. restri, 1.

The upper part of the head and body fuscous; the wing and tail darker; the throat, and beneath the body cinereous white, tinged with straw-colour; the bill pale yellowish fuscous, and the feet fuscous.

Habitat, Galapagos Archipelago, (James' Island.)

The species of Camarhynchus do not differ in habits from those of Geospiza; and the C. psittaculus might often be seen mingled in considerable numbers in the same flock with the latter. Mr. Bynoe procured a blackish specimen, which doubtless, was an old male; I saw several somewhat dusky, especially about the head.

2. Camarhynchus crassirostris. Gould.

C. (Mas jun. et Fcem.) corpore superiore intense brunneo, singulis plumis cinerascenti-

olivaceo marginatis; gutture pectoreque cinerascenti-olivaceis, singulis in medio plumis obscurioribus; abdomine, lateribus crissoque cinereis stramineo tinctis.

Long. tot. 5\(\frac{1}{2}\) unc.; ala, 3\(\frac{3}{4}\); cauda, 2; tarzi, 1\(\frac{1}{2}\); restri, \(\frac{1}{4}\); alt. restri, \(\frac{1}{2}\).

Upper part of the body deep brown, with each feather margined with cinereous olive; the throat and breast cinereous olive, with the middle of each feather darker; the abdomen, sides, and under tail coverts cinereous tinged with straw colour.

Habitat, Galapagos Archipelago, (Charles Island?)

I am nearly certain that this species is not found in James Island. I believe it came from Charles Island, and probably there replaces the C_puittensies of James Island. I obtained three specimens, one male, and two females; from the analogy of so many species in this group, I do not doubt the old male would be black.

SUB-GENUS.-CACTORNIS. Gould.

CACTORNIS differt a genere GEOSPILA rostro elongato, acuto, compresso, longitudine altitudinem excellente; mandibula superioris margine vix indentato; naribus basalibus et vix tectis; larsis brevioribus, unguibus majoribus et plus curvatis.

Cactornis scandens is the typical species.

1. Cactornis scandens. Gould. Plate XLII.

C. intensè fuliginosa, crisso albo; rostro et pedibus nigrescenti-brunneis. Long. tot. 5 unc.; rostri, ‡; ala, 2½; cauda, 1‡; tarni, ‡.

Form. Corpore superiore, gutture pectoreque intensê brunneis, singulis plumis pallidiorê marginatis; abdomine crissoque cinereis, stramineo tinctis; rostro pallidê

fusco; pedibus nigrescenti-fuscis.

Deep sooty black, with the under tail-coverts white; the bill and feet blackish-

Female: Upper surface of the body, throat and breast intensely brown, with the margins of each feather paler; the abdomen and the under tail coverts cinereous, tinged with straw-colour; the bill pale fuscous, and the feet blackish fuscous.

Habitat, Galapagos Archipelago, (James' Island.)

The species of this sub-genus alone can be distinguished in habits from the several foregoing ones belonging to Geospiza and Camarhynchus. Their most





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Cactornis afsimilis.



frequent resort is the Opasitis Galapageria, about the fleshy leaves of which they hop and climb, even with their back downwards, whilst feeding with their sharp beaks, both on the fruit and flowers. Often, however, they alight on the ground, and mingled with the flock of the above mentioned species, they search for seeds in the parched velocanic soil. The extreme searceness of the jet-black specimens, which I mentioned under the head of the genus Geopsiza, is well exemplified in the case of the C. seandeus, for although I daily saw many brown-coloured ones, (and two collectors were looking out for them), only one, besides that which is futured, was procured, and I did not see a second.

2. CACTORNIS ASSIMILIS. Gould.

PLATE XLIII.

TIMBERIN DES GALLAPAGOS, (île St. Charles,) Nebouz, Revue Zoologique, 1840, p. 291.

C. Mas (jun?) corpore suprà fuliginoso, (gutture abdomineque exceptis,) cinereo marginatis; rostro pallidè rufenecati-brunneo; pedibus nigrescenti-brunneis. Long, tot. 3 june; reseri, 3; cas, 22; cassed, 13; toris, 3.

Upper surface of the body sooty black, margined with cincreous, as well as the throat and abdomen; the bill pale rufous brown; the feet blackish brown. Habitat, Galapagos Archipelago.

I do not know from which island of the group this species was procured; almost certainly not from James Island. Analogy would in this case, as in that of Camarhyaches crassivateria, lead to the belief that the old male would be jet black. By a mistake this bird has been figured standing on the Opanita Durviviii, a plant from Patagonii, instead of the O. Galopageia. I may here mention that a third and well characterized species of Cactornis has lately been sent by Captain Belcher, R.N. to the Zoological Society; as Capt. Belcher visited Cocos Island, which is the nearest land to the Galapagos Archipelago, being less than 400 miles distant, it is very probable that the species came them.

SUB-GENUS .- CERTHIDEA. Gould.

CERTHIDEA differt a genere GEOSPIZA rostro graciliore et acutiore; naribus basalibus et non tectis; mandibulæ superioris margine recto; tarsis longioribus et gracilioribus.

Of the foregoing sub-genera, Geospiza, Camarhynchus and Cactornis belong to one type, but with regard to Certhidea, although Mr. Gould confidently believes it should also be referred to the same division, yet as in its slighter form and weaker bill, it has so much the appearance of a member of the Spériadre, be would by no means insist upon the above view being adopted, until the matter shall have been more fully investigated.

CERTHIDES OLIVACES. Gould.

PLATE XLIV.

C. summo capite, corpore superiore, alis caudăque olivaceo-brunneis; gutture et corpore infra cinereis; rostro pedibusque pallidê brunneis.

Long. tot. 4 unc.; rostri, §; alw, 2; caude, 1); tarni, §.

Upper part of the head, body, wings and tail, olivaceous brown; the throat, and beneath the body, cinereous; the bill and feet pale brown.

Habitat, Galapagos Archipelago. (Chatham and James Island).

I believe my specimens, which include both sexes, were procured from Chatham and James Islands; it is certainly found at the latter.

Рнутотома вава. *Mol.*

P. Bloxami, Children, Jard. and Selby's Ill. P. rutila. Vicill. May. de Zool. 1832, ii. pl. 5.

P. silens, Kittl. Mem. de l'Acad. des Sci. de St. Petersb.

This is not a very uncommon bird in Central Chile: the farmers complain

This is not a very uncommon ord in Central Chile: the tarmers complain that it is very destructive to the buds of fruit trees. It is quiet and solitary, and haunts hedge-rows or bushes; its manners are similar to those of our bullfinch, (Loxia Pyrrhula). Iris bright scarlet. Mr. Eyton has given an anatomical description of this bird in the Appendix.

Dolichonyx oryzivorus, Sicains. Fann. Bor. Am. 2, 278.

This one specimen only was seen at James Island, in the Galapagos Archipelago, during the beginning of October. It is remarkable that a bird migrating, according to Richardson, as far as 34° N, in North America, and generally inhabiting marshy grounds, should be found on these dry rocky islands under the equator. Mr. Gray and myself carefully compared this specimen with one from North America, and we could not neceive the slightless difference.

Xanthornus Chrysopterus. G. R. Gray. Oriolus cavendensis, Linn. Syst. 1, 168?

Agelaius chrysopterus, Vieill.

This bird generally frequents marshy grounds. I procured specimens from La Plata and from Chile; in the latter country it extends at least as far north as the valley of Copingo, in 27° 20′: on the eastern plains it does not range, according to Azara, north of 26°. It builds in reeds. Molina says it is called by the Indians Thili, or Chile—hence he derives the name of the country.







Certhidea olivacea.









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Xanthornus flaviceps.



2. XANTHORNUS FLAVUS. G. R. Gray.

 $\begin{array}{c} {\rm PLATE~XLV.} \\ {\rm Oriolus~flavus,~Guncl.} \\ {\rm Psarocolius~flaviceps,~Wagl.~Syst.~Avium.} \end{array}$

This species is common at Maldonado in large flocks.

LEISTES ANTICUS. G. R. Gray. Icterus anticus, Liolt. Cat. p. 19. Agelaius virescons, Vioill, Ency. Meth. 543. Paarocolius anticus, Wayl. Le Drawon, Austra. No. 65.

This bird is exceedingly abundant in large flocks on the grassy plains of La Plata. It is noisy, and in its habits resembles our starling.

AGELAIUS FRINGILLARIUS. G. R. Gray.
 Ieterus frincillarius. Soir. Av. So. No. 1, t. lxv. Sg. 1 & 2. p. 68.

in Minas Geraes.

Paurocolliss stricess, j_{W_i} , W_{ij} .

This species is rare at Maldonado, but appears more common on the banks of Parana in Lat. 31°. S. Spix says (vol. i. p. 68, Birds of Brazil), it is found

2. AGELAIUS CHOPI. Vicill.
Turdus cursus, Gmel.
Le Chopi, Azura, No. 62.
Icétrus unicolor, Lield.
Icétrus sulcirostris, Spie, Av. Br. pl. 64. f. 2.

This species is common in flocks on the pasture grounds of Chile, and along the whole western shore of the southern part of the continent. In Chile it is called, according to Molina, "eureu." It is a noisy, chattering bird, and runs in the manner of our starlings. It can be taught to speak, and is sometimes kept in cages. It builds in bushes.

MOLOTHRUS NIGER. Gould agra bonariensis, Gmel. tas niger, Dand. erins discolor, Vicill. russ maxillaris, D'Orb. & Lafr. us writerus. Lieht.

This Molothrus is common in large flocks on the grassy plains of La Plata, and is often mingled with the Leistes anticus, and other birds. In the same flock

Psarocolius seriesus, Waal,

with the usual black kind, there were generally a few dull brown coloured ones, (Icterus sericeus of Licht.) which I presume are the young. Azara states that the brown-coloured birds are smaller than the black glossy ones, and that they sometimes form one-tenth of the whole number in a flock. In the single specimen which I brought home, the size, with the exception of the length of the wing, is only a very little less. Sonnini, in his notes to Azara, considers the brown birds as the females; I can, however, scarcely believe that so obvious a solution of the difficulty could have escaped so accurate an observer as Azara, These birds in La Plata often may be seen standing on the back of a cow or horse. While perched on a hedge, and pluming themselves in the sun, they sometimes attempt to sing or rather to hiss; the noise is very peculiar; it resembles that of bubbles of air passing rapidly from a small orifice under water, so as to produce an acute sound. Azara states that this bird, like the cuckoo, deposits its eggs in other birds' nests. I was several times told by the country people, that there was some bird which had this habit; and my assistant in collecting, who is a very accurate person, found in the nest of the Zonotrichia ruficollis (a bird which occupies in the ornithology of S. America the place of the common sparrow of Europe), one egg larger than the others, and of a different colour and shape. This egg is rather less than that of the missel-thrush, being 93 of an inch in length, and '78 in breadth: it is of a bulky form, thick in the middle. The ground colour is a pale pinkish-white, with irregular spots and blotches of a bright reddish-brown, and others less distinct of a greyish hue. This species is evidently a very close analogue of the M. pecoris of North America, from which, however it may at once be distinguished by the absence of the glossy brown on the head, neck, and upper breast,-by the metallic blueness of its plumage in the place of a green tinge, and by its somewhat greater size in all its proportions. The young or brown-coloured specimens of these Molothri resemble each other more closely; that of the M. pecoris is of a lighter brown, especially under the throat, and the small feathers on its breast and abdomen have each an obscure dark central streak. The eggs of the Molothri, although having the same general character, differ considerably; that of the M. pecoris being smaller and less swollen in the middle: it is .85 of an inch in length, and .78 in breadth. Its colour cannot be better described than in the words of Dr. Richardson*-it is "of a greenish white, with rather small crowded and confluent irregular spots of pale liver-brown, intermixed with others of subdued purplish grev." From this

[•] Fauna Berealis, Birds, p. 278. Dr. Bichardson states that the egg is only seven lines and a half in length, I presume the measure of eight lines, instead of twelve to the inch, must in this case have been used. I am much indebted to the kindness of Mr. Yarrell for leading me an egg of the Moledrau provris, forming part of a cellection of North American even in his roosension.

description it is obvious that the egg of M. niger is larger and of a much redder tint: the more prominent spots also are larger, the subdued grey being quite similar in both.

If we were to judge from habits alone, the specific difference between these two species of Molothrus might well be doubted; they seem closely to resemble each other in general habits -in manner of feeding -in associating in the same flock with other birds, and even in such peculiarities as often alighting on the backs of cattle. The M. pecoris, like the M. niger, utters strange noises, which Wilson* describes "as a low spluttering note as if proceeding from the belly." It appears to me very interesting thus to find so close an agreement in structure, and in habits, between allied species coming from opposite parts of a great continent, Mr. Swainson t has remarked that with the exception of the Molothrus, the cuckoos are the only birds which can be called truly parasitical: namely, such as "fasten themselves, as it were, on another living animal, whose animal heat brings their young into life, whose food they alone live upon, and whose death would cause theirs during the period of infancy." It is very remarkable, that the cuckoos and the molothri, although opposed to each other in almost every habit, should agree in this strange one of their parasitical propagation; the habit moreover is not universal in the species of either tribe. The Molothrus, like our starling, is eminently sociable, and lives on the open plains without art or disguise: the cuckoo, as every one knows, is a singularly shy bird; it frequents the most retired thickets, and feeds on fruit and caterpillars.6

AMBLYRAMPHUS RUBER. G. R. Gray.

Oriolus ruber, Gmel. Amblyramphus bicolor, Leach. Sturnus pyrrhocephalus, Lieht,

This bird frequented marshy places in the neighbourhood of Maldonado, but it was not common there. It is more solitary than the following allied species; I have, however, seen it in a flock. Seated on a twig, with its beak widely open, it

often makes a shrill, but plaintive and agreeable cry, which is sometimes single * Wilson's American Ornithology, vol. ii. p. 162.

2 See Azara, vol. iii. p. 170.

+ Magazine of Zoology and Botany, vol. i. p. 217 5 It accears that the eyes in the same nest with that of the Molochrus secoris, are turned out by the parent birds before they are hatched, owing to the egg of the M. pooris being hatched in an unusually short time; in the case of the young cuckoo, as is well known, the young bird itself throws out its foster-brothers. Mr. C. Fox. however, (Silliman's American Journal, vol. xxix. p. 292), relates an instance of three young sparrows having been found alive with a Molothrus.

and sometimes reiterated. Its flight is heavy. The young have their heads and thighs merely mottled with scarlet.

STURNELLA MILITARIS. Vicili. Sturious militaris, Good.

Etourseau dos terres Magellanique, Pl. cnl. 113.

I met with specimens of this bird on the east coast of the continent from the

I met with specimens of this bird on the cast coast of the continent from the Falkland Islands to 31° St., and on the western coast from the Strait of Magellan to Lima, a space of forty degrees of latitude.

FAMILY.-TROCHILIDÆ.

Trochilus flavifrons.

Monte Video.—November. Not abundant

2. TROCHILUS FORFICATUS. Lath. Elward Glessings.

Vicill, Ois. dores, t. 1.
Ornismva Kineii, Less, Trochilidees, pl. 38.

This species is found over a space of 2.500 miles on the west coast, from the hot dry country of Lima to the forests of Terra del Fuego, where it has been described by Captain King as flitting about in a snow-storm. In the wooded island of Chiloe, which has an extremely damp climate, this little bird, skipping from side to side amidst the humid foliage, and uttering its acute chirp, is perhaps more abundant than any other kind. It there very commonly frequents open marshy ground, where a kind of bromelia grows: hovering near the edge of the thick beds, it every now and then dashes in close to the ground: but I could not see whether it ever actually alighted. At that time of the year there were very few flowers, and none whatever near the beds of bromelia. Hence, I was quite sure that they did not live on honey; and on opening the stomach and upper intestine, by the aid of a lens, I could plainly distinguish in a vellow fluid, morsels of the wings of diptera,-probably Tipulidæ. It is evident that these birds search for minute insects in their winter quarters under the thick foliage. I opened the stomachs of several specimens which were shot in different parts of the continent, and in all remains of insects were numerous, forming a black comminuted mass. In one killed at Valparaiso, I found portions of an ant. Amongst the Chonos Islands, at a season when there were flowers in open places, vet the damp recesses of the forests appeared their favourite haunt. In central

Chile these birds are migratory; they make their appearance there in autumn; the first arrival which I observed was on the 14th of April (corresponding to our October) but by the 20th they were numerous. They stay throughout the winter, and begin to disappear in September: on October 12th, in the course of a long walk. I saw only one individual. During the period of their summer migration, nests were very common in Chiloc and the Chonos Island, countries south of Chile. When this species of Trochilus migrates southward, it is replaced in Chile by a larger kind, which will be presently described. The migration of the humming birds on both the east and west coasts of North America, exactly corresponds to that which takes place in the southern half of the continent. In both they move towards the tropic during the colder parts of the year, and retreat poleward before the returning heat. Some, however, remain during the whole year in Tierra del Fuego; and in northern California,-which in the northern hemisphere, has this same relative position which Tierra del Fuego has in the southern,-some, according to Beechey, likewise remain. Near the south end of Chiloe, I found on the 8th of December, a nest with eggs nearly hatched. It was of the ordinary form of nests; rather more than an inch in internal diameter, and not deep, composed externally of coarse and fine moss, neatly woven together, and lined with dried confervæ, now forming a very fine reddish fibrous mass. I feel no doubt regarding the nature of this latter substance, as the transverse septa are vet quite distinct; hence this humming bird builds its nest entirely of cryptogamic plants. Egg perfectly white, elongated, or rather almost cylindrical, with rounded ends; length '557 of an inch, and transverse diameter '352 of an inch. In January, at the Chonos Islands, when there were young in the nest, a considerable number of old birds were shot; of these, however, few or scarcely any had the shining crest of the male. In the only specimen, which I carefully examined, the metallic tips of the young feathers of the crest, were just beginning to protrude. Several of these males without their crest, had a vellowish gorge; and I saw some with a few light brown feathers on their backs. I presume these appearances are connected with their state of moult.

3. TROCHILUS GIGAS, Vieill.

Orsimya tristis, Less., Oiscaux Mouches, pl. 3.

This species is common in central Chile. It is a large bird for the delicate family to which it belongs. At Valparaiso, in the year 1834, I saw several of these birds in the middle of August, and I was informed they had only lately arrived from the parched deserts of the north. Towards the middle of Sentember

^{*} Humboldt, Pers. Narr. vol. v. part 1. p. 352. Cook's Third Voyage, vol. ii. and Beechey's Voyage,

(the vernal equinox) their numbers were greatly increased. They breed in central Chile, and replace, as I have before said, the foregoing species, which migrates southward for the same purpose. The nest is deep in proportion to its width; externally three inches and a half deep; internal depth a little under one inch and three quarters; width within one inch and two-tenths; mouth slightly contracted. Externally it is formed of fine fibrous grass woven together, and attached by one side and bottom to some thin upright twigs; internally it is thickly lined with a felt, formed of the pappus of some composite flower. When on the wing, the appearance of this bird is singular. Like others of the genus, it moves from place to place, with a rapidity which may be compared to that of Syrphus amongst diptera, and Sphinx among moths; but whilst hovering over a flower. it flaps its wings with a very slow and powerful movement, totally different from that vibratory one common to most of the species, which produces the humming noise. I never saw any other bird, where the force of its wings appeared (as in a butterfly) so powerful in proportion to the weight of its body. When hovering by a flower, its tail is constantly expanded and shut like a fan, the body being kept in a nearly vertical position. This action appears to steady and support the bird, between the slow movements of its wings. Although flying from flower to flower in search of food, its stomach generally contained abundant remains of insects, which, I suspect, are much more the object of its search than honey is, The note of this species, like that of nearly the whole family, is extremely shrill.

In the Appendix an anatomical description of this bird by Mr. Eyton is given.

ORDER-SCANSORES.

CONURUS MURINUS, Kuhl.
 Psittacus murinus, Gasel.
 Perruche, Pernet, voy. 1. p. 312.

This parrot feeds in large flecks on the grassy plains of Banda Oriental, where not a tree can be seen. They are very destructive to the corn-fields. I was assured that in one year, near Colonia del Sacramiento, on the north bank of the Plata, 2,500 were killed, a reward being given for each dozen heads. Many of these birds build their nests close together in trees, the whole composing a vast mass of sticks. I saw several of their compound nests on the islands in the river Parana.

2. CONURUS PATACHONICUS.

Paittacus Patagousu, Fieill. Ency. Meth. p. Paittacus Patagonica, Len. Voy. de la Coquille Zool. pl. 35 bis. Paittacus Patagonica, Len's Ill. Paitt. Le Patagoni, duren, No. 277. Patagonia maccaw, Leith. Hist. 11, 105.

I obtained specimens of this bird at Bahia Blanca in Northern Patagonia, where there is not a single tree, and the country is dry and evey sterile. I did not meet with this species in the southern parts of Patagonia, but it is common near Concepcion in Chile, in nearly the same latitude. They build their nests in holes in cliffs of earth or gravel, together with the Hireado quantitions. Bespender, at Bahia Blanca, they were laying; their eeggs are quite white, and small in proportion to the bird. Several usually rush forth from their holes at the same instant and utter a noise veream.

Picus Kingii. G. R. Gray. Picus melanoorphalus, King, Proc. Zool. Soc. 1830, p. 14.

I procured specimens at Valparaiso, and at the Peninsula of Tres Montes (Lat 49°S). At the latter place, I killed in January a pair, male and female. Captain King's specimens were obtained from Chilor. The male has its whole head scarder with only the nape black, so that Captain King's specific name is unfortunately not applicable for the species; therefore Mr. G. R. Gray thinks it should be named after the first describer. The head of the female is black, with some short reddish-brown feathers over nostrils. There appears to be no other difference in the plumage of the sexes.

CHRYSOPTILUS CAMPESTRIS. Stoains.
Picus campestris, Lielt. Cat. p. Spiz, Av. Br. pl. 116.
Le charmentier des champs. Acare. No. 253.

My specimens were obtained from Banda Oriental and Bornos Ayres; I saw it no further southward. Spix says (Birds of Brazil: No I. p. 5.1), it inhabits Minas Gernes. They frequent open plains and especially necky ground. They are rather wild, and generally live three or four together. The tail of these ground woolpeckers seems but little used; their beaks, however, were generally muddy to the base: in the stomach of one I found only ants. Their flight is undulatory like that of the English woolpecker, and their load cry is likewise similar, but each note more separate. They alight on the branch of a tree, horizontally, in the manner of ordinary birds; but occasionally I have seen one clinging in an upright position to a post. They appear to feed exclusively on the ground.

COLAPTES CHILENSIS. Vigors.

This bird frequents the dry stony hills of central Chile, on which only a few bashs and trees grow. It is closely related in habits and structure to the foregoing species, and appears to be its representative on the western side of the Corfillers; hence I cannot but think the institution of the above two genera unfortunate. It is the "Pilnir" of Molina, which name, I imagine, it derives from its peculiar cry. Molina states, that it builds its next in holes in banks of the side o

1. DIPLOPTERUS NÆVIUS. Boie. Cuculus nævius, Lath. Ind. 220.

Rio de Janeiro. April.

 DIPLOPTERUS GUIRA. G. R. Gray. Cuculus guim, Lins. Crotophaga Piririgua, Visil. Gal. des Ois. pl. 44. Ptiloloptus cristatus, Serains.

Buenos Ayres. In small flocks; a noisy, chattering bird.

CROTOPHAGA ANI. Linn.
Petit Bout-de-Petun, pl. enl. 102, f. 2.

Rio de Janeiro. May. The stomach of several specimens contained remains of numerous Orthopterous, and some Coleopterous insects.

ORDER GYRATONES. Bonap. 1. COLUMBA FITZROYH. King.

Columba Fitzroyii, King., in Proc. of Zool. Soc. part 1, 1830, p. 14. Columba denisca, Temm. pl. col. 502. Columba araucana, Loss. Voy. de Coqu. pl. 40.?

Peninsula of Tres Montes. Lat. 46° S. January. Captain King's specimens were obtained at Chiloc, three degrees northward. I procured other specimens near Valparaiso. This bird therefore frequents dry rocky land, and damp impervious forests.







Zenaida Galapagoensis.



2. COLUMBA LORICATA. Lieht. Vog. Verz. s. 67.

Frequents in large flocks the fields of Indian corn in the neighbourhood of Maldonado. Legs dull "carmine red." This, probably, is the representative on the eastern side of the Andes of the foregoing or Chilian species.

Zenaida aurita. G. R. Gray.
 Columba aurita, Tomos. Pig. p. 60. Wood. sp. 70

I procured specimens of this bird at Maldonado (where it was very abundant) in La Plata, and at Valparaiso in Chile.

2. Zenaida Galapagoensis. Gould.

Z. sertie, cerrie, derae condespue tegminibus obeser's fusis trismon-listiti; dome sigre-guttate; durant tegminibus fusis: pland singul hallide trismon-fuso terminata, pegonii strisupue morgine, meradi obbaqui magud sigra, lined albe sparenti; resulptius primaris et secondaris ingrescorti-fusio, incuraectsi-fusio, inclusion magra, loris linelpus enguatu supra et infra codent sigris pullad fusion martini gull spectorque visuosis, colli lateribus crato tisetis; criso, caudopu tegminibus steprinibus cinemacutibus, rators sigre, polibus represent aruntarias.

Long. tot. 8\u00e1 unc.; ala, 5\u00e1; caude, 3\u00e1; tarri, \u00e1; restri, 1.

Crown of the head and back of the neck, dark chocolate brown, with a vinous tinge; back and tail-coverts the same, the former spotted with black; wing-coverts brown, each feather having a large oblong spot of black on the margin of either web, separated by a line of white, and tipped with light vinous brown, the white predominating on the larger coverts, primaries and secondaries blackish-brown, finely edged with greysid-white; tail brownish-grey, crossed near the extremity with a broad irregular band of black; lores and a narrow line above and beneath the eye black, interrupted with light brown: throat and chest rich vinous, glossed on the sides of the neck with metallic bronze, and fading into greyish on the vent and under tail-coverts; bill black; feer teddish-orange.

Habitat, Galapagos Archipelago. (Sept. and Oct.)

This species may at once be distinguished from the Z. aurita, by the redder tint of its breast,—the greater number of black marks on the wing coverts and back—the outer half of some of the feathers on the wing coverts being white the marks on the under side of the tail being grey (instead of white as in the Z. aurita) and by the larger size of its beak.

This dows is one of the most abundant birds in the Archipelago. It frequents the dry rocky soil of the low country, and often feeds in the same flock with the several species of Geopica. It is exceedingly tame, and may be killed in numbers. Formerly it appears to have been much tamer than at present. Covley, "in 1048, says that the "Turtle dows were so tame that they would often alight upon our hats and arms, so as that we could take them alive: they not fearing man, until such time as some of our company did fire at them, whereby they were rendered more shy." Dampier† (in the same year) also says that a man in a morning's walk might, kill six or seven dozen of these birds. At the present time, although certainly very tame, they do not alight on people's arms; nor do they suffer themselves to be killed in such numbers. It is surprising that the change has not been greater;—for these islands during the last hundred and fifty years, have been frequented by buccaneers and whalters; and the sailors, wandering through the woods in search of tortoises, take delight in knocking down the little birds.

3. ZENAIDA BOLIVIANA. G. R. Gray.
Columba Boliviana, Il'Orb. & Leit. Mag. de Zool. 1898. Ois. p. 33, pl. 75.
My specimen was obtained (end of August) at Valparaiso.

1. COLUMBINA STREPITANS. Spix.
(Av. pl. 75, £ 1.)

I procured specimens at Maldonado (where it was not common), on the banks of the Plata, and at Rio Negro, in Northern Patagonia.

 COLUMBINA TALPACOTI. G. R. Gray. Columba Talpacoti, Temm. Pig. p. 22. t. 12.
 Culumbina Cabocolo, Spir, Av. pl. 75a. f. 1.
 Le Pigon rougeatre, A. Josea, No. 333.

My specimens were obtained at Rio de Janeiro.

Cowley's Voyage, p. 10, in Dampier's Collection of Voyages.
 Dampier's Voyage, vol. i, p. 103. For some further observations on the tameness of the birds on this and some other inlands, see my Journal of Researches, p. 475.

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 ATTAGIS FALKLANDICA. G. R. Gray. Tetrao Palkhandieus, Ganolius, Syst. 1, 762.
 La Caillle des Ioles Malonines, Buff. pl. enl. 222.
 Cotumix Palkhandies, Bons. Ency. Meth. Orn. 220.
 Perlix Palkhandies, Appl. Shaw 2 Zool. xi. 366.
 Crivx Palkhandies, Sppl. Shaw 2 Zool. xi. 366.

This bird is not uncommon on the mountains in the extreme southern parts of Tierra del Fuego. It frequents, either in pairs or small coveys, the zone of alpine plants above the region of forest. It is not very wild, and lies very close on the bare ground.

2. Attagis Gayii. Less. Attagis Gayii, Less. Cent. Zool. pl. 47, p. 155.

A specimen was given me, which was shot on the lofty Cordillera of Coquimbo, only a little below the snow-line. At a similar beight, on the Andes, behind Copiapo, which appear so entirely destitute of vegetation, that any one would have thought that no living creature could have found subsistence there, I saw a covey. Five birds rose together, and uttered noisy cries; they flew like grouse, and were very wild. I was told that this species never descends to the lower Cordillera. These two species, in their respective countries, occupy the place of the ptarnigan of the northern benisphere.

Tinochorus rumicivorus. Eschsch.
Thinocerus rumicivorus, Eschsch. Zool. Atl. pl. 2.

This very singular lind, which in its habits and appearance partakes of the character both of a wader and one of the gallinaccoss order, is found wherever there are sterile plains, or open dry pasture land, in southern South America. We saw it as far south as the inland plains of Patagovia at Santa Craz, in lat. 60°.

On the western side of the Cordillera, near Concepcion, where the forest land changes into an open country, I saw this bird, but did not procure a specimen of it: from that point throughout Chile, as far as Copiapo, it frequents the most desolate places, where scarcely another living creature can exist; it thus ranges over at least twenty-three degrees of latitude. It is found either in pairs or in small flocks of five orsk; but near the Stern Ventant as was as many as thirty and forty together. Upon being approached they lie close, and then are very difficult to be distinguished from the ground; so that they often rise quite unexpectedly. When feeding they walk rather slowly, with their legs wide apart. They dust themselves in roads and sandy places. They frequent particular spots, and may

be found there day after day. When a pair are together, if one is shot, the other seldom rises; for these birds, like partridges, only take wing in a flock. In all these respects, in the muscular gizzard adapted for vegetable food, in the arched beak and fleshy nostrils, short legs, and form of foot, the Tinochorus has a close affinity with quails. But directly the bird is seen flying, one's opinion is changed: the long pointed wings, so different from those in the gallinaceous order, the high irregular flight, and plaintive cry uttered at the moment of rising, recall the idea of a snipe. Occasionally they soar like partridges when on the wing in a flock, The sportsmen of the Beagle unanimously called it the short-billed snipe. To this genus, or rather to that of the sandpiper, it approaches, as Mr. Gould informs me, in the shape of its wing, the length of the scapulars, the form of the tail, which closely resembles that of Tringa hypoleucos, and in the general colour of the plumage. The male bird, however, has a black mark on its breast, in the form of a voke, which may be compared to the red borseshoe on the breast of the English partridge. Its nest is said to be placed on the borders of lakes, although the bird itself is an inhabitant of the parched desert. I was told that the female lays five or six white eggs, spotted with red. I opened the stomachs of many specimens at Maldonado, and found only vegetable matter, which consisted of chopped pieces of a thick rushy grass, and leaves of some plant, mixed with grains of quartz. The contents of the intestine and the dung were of a very bright green colour. At another season of the year, and further south, I found the craw of one full of small seeds and a single ant. Those which I shot were exceedingly fat, and had a strong offensive game odour; but they are said to be very good eating, when cooked. Pointers will stand to them. In the Appendix Mr. Eyton has given an anatomical description of this bird, which partly confirms that affinity both to the Grallatores and Razores, which is so remarkable in its habits and external

CHIONIS ALBA. Forst. Show's Nat. Miscel. pl. 481.

I opened the stomach of a specimen killed at the Falkland Islands, and found it small shells, theirly Patellar, pieces of sea-weed, and several pebbles. The contents of the stomach and body smelt most offensively. Forster remarked this circumstance; but since his time, other observers, namely, Anderson, Quoy, Gainard, and Lesson (Manuel d'Ortitologie, to mi p. 342) have found that this is not always the case, and they state that they have actually eaten the Chionis. I was not aware of these observations, but independently was much surprised at the extrnorlinary odour exhaled. We, like other voyagers in the Antarctic sens, were struck at the great distance from land, at which this bird is found in the

11:

open ocean. Its feet are not webbed, its flight is not like that of other pelagic birds, and the contents of its stomach, and structure of legs, show that it is a coastfeeder. Does it frequent the floating icebergs of the Antarctic ocean, on which sea-weed and other refuse is sometimes cast?

1. Nothura Major. Wagl. Nothura major, Wagl. Syst. Av. p. sp. 4. Tinamus major. Spig. Av. pl. 80.

These birds are very common on the northern shores of the Plata. They do not rise in coveys, but generally by pairs. They do not cancel themselves nearly so closely as the English partridge, and hence great numbers may be seen in friding across the open grassy plains. Note, a shrill whisel. It appears a very stilly brief; a non on horsebuck, by riding round and round in a circle, or rather in a spire, so as to approach closer each time, may knock on the head almost as many as he pleases. The more common method is to eath them with a running noose, or little lazo, made of the stem of an ostrich's feather, fastened to the cent of a long stick. A boy on a quiet old horse will frequently thus catch thirty or forty in a day. The flesh of this bird, when cooked, is most delicately white, but rather tasteless.

The egg of this species, I believe, closely resembles that of the two following

2. NOTHURA MINOR. Wagl. Nothurs minor, Wagl. Syst. Av. p. sp. 4. Tinanus minor, Spix, Av. Br. pl. 82.

I procured a specimen of this bird at Bahia Blanca, in northern Patagonia, where it frequented the sand-dunes and the surrounding sterile plains. Its labits appear similar to those of the N. major, but it lies closer and does not so readily take to the wing. It is the smallest of the species mentioned in this work, and its plumage is less distinctly spotted. The egg of this bird is described below. Spix's specimens were obtained at Tijnco in Brazil. The figure in his work on the Birds of Brazil, differs slightly from mine, in being less marked on the breast.

NOTHURA PERDICARIA G. R. Gray. Crypturus perdicarius, Kittlitz, Vögel von Chili.

This species closely resembles, in its general appearance and habits, the

a In Hearné's Travels in North America, (p. 385), it is stated that the Northern Indians shoot the varying hare, which will not be to be appreciated in a straight line, in an analogous manner, by walking round it in a spire. The middle of the day is the best time, when the shadow of the hunter is not very long.

N. major, of which probably it is the analogue on the western side of the Codillera. It is larger and has a considerably longer beak than the N. major; its breast is not spotted, and its abdomen has a loss fulvous tinge. The N. pordiorries runs on the open ground, generally a pair together, in the same unconcealed manner, as its analogue, and does not readily lie close. Flight similar, but on rising it utters a striller whistle, of a different tone. It does not appear to be so easily caught as the Plata species. It is tolerably abundant in all parts of Chile, as far north as the valley of Gousseo; but I was assured, that it has never been seen in the valley of Copiapo, although only seventy miles north of Gussco, and of a similar chancter. The egg is very glossy and of a peculiar colour, which, according to Werner's nomenclature, is a pulsish chocolate red; length in longe wait 207 of an incl., shorter axis it 4750 of an inch. The egg of the N. misor is of a similar colour, but a shade paler, and rather smaller; its length being 1705, and its transverse diameter 13 of an inch.

RHYNCHOTUS BUFESCENS. Wagl.

Rhynchotus rufescens, Wagl. Av. Syst.
Tinamus rufescens. Tennu. Gall. iii. p. 552.
Rhynchotus fasciatus. Spix. Av. Bt. pl. 76.
Cryptura Gunza. Vicill.
Cryptura rufescens. Licht. Vög. Verz. s. 67.

My specimens were procured at Maldoundo, where it is a much rarer bird than the Nothern supier; I met with it also in the sterile country near Bahin Blanca. At Maldoundo it frequented swampy thickets on the borders of lakes. It lies very close, and is unwilling to rise, but often utters, whilst on the ground, a very shrill whistle. When on the wing, it flies to a considerable distance. Several are generally found together, but they do not rise at the same instant, like a covey of partialges. Flesh, when cooked, perfectly white. Spir's specimens were procured in the country between St. Paul's and Minas Gernes; so that this bird, as well as the Nothern suinor, has a considerable range.

ORDER-CURSORES. Temm.

1. Rhea Americana. Lath.

This bird is well known to abound on the plains of La Plata. To the north it is found, according to Azara, in Paraguay, where, however, it is not common; to the south its limit appears to be from 42° to 43°. It has not crossed the Cordillera; but

I have seen it within the first range of mountains on the Uspallata plain, elevated between six and seven thousand feet. The ordinary habits of the ostrich are well known. They feed on vegetable matter, such as roots and grass; but at Bahia Blanca. I have repeatedly seen three or four come down at low water to the extensive mud-banks which are then dry, for the sake, as the Gauchos say, of catching small fish. Although the ostrich in its habits is so shy, wary, and solitary, and although so fleet in its pace, it falls a prey, without much difficulty, to the Indian or Gaucho armed with the bolas. When several horsemen appear in a semicircle, it becomes confounded, and does not know which way to escape. They generally prefer running against the wind; yet at the first start they expand their wings, and like a vessel make all sail. On one fine hot day I saw several ostriches enter a bed of tall rushes, where they squatted concealed, till quite closely approached. It is not generally known that ostriches readily take to the water. Mr. King informs me that in Patagonia, at the Bay of San Blas and at Port Valdes, he saw these birds swimming several times from island to island. They ran into the water, both when driven down to a point, and likewise of their own accord, when not frightened: the distance crossed was about 200 yards, When swimming, very little of their bodies appear above water, and their necks are extended a little forward: their progress is slow. On two occasions, I saw some ostriches swimming across the Santa Cruz river, where it was about four hundred vards wide, and the stream rapid. Captain Sturt, when descending the Murrumbidgee, in Australia, saw two emus in the act of swimming,

The inhabitants who live in the country readily distinguish, even at a distance, the male bird from the female. The former is larger and darker coloured, rand has a larger head. The estrick, I believe the cock, emits a singular, deep-toned, hissing note. When first I heard it, standing in the midst of some sand-hillocks, I I dought it was made by some wild beast, for it is a sound that one cannot reli whence it comes, or from how far distant. When we were at Bahia Blanca in the months of September and October, the eggs were found, in extraordinary numbers, all over the country. They either lies extraord single, in which case they are never hatched, and are called by the Spaniards, bunches, or they are collected together into a shallow excavation, which forms the nest. Out of the four nests which I saw, three contained twenty-two eggs each, and the fourth twenty-seven. In one day's bunting on horseback sixty-four eggs were found; forty-four of these were in two nests, and the remaining twenty scattered hunchos. The Gauchos unanimously affirm, and there is no reason to doubt their statement, that the male

^{*} Sturt's Travels, vol. ii. p. 74.

^{1 +} A Gaucho assured me that he had once seen a snow-white, or Albino variety, and that it was a most beautiful bird.

bird alone hatches the eggs, and for some time afterwards accompanies the young. The cock when on the next lies very close; I have myself almost ridden over close. The cock when on the next lies very close; I have myself almost ridden over one. It is asserted that at such times they are occasionally ferce, and even dangerous, and that they have been known to attack a man on horseback, trying to kick and leap on him. My informer pointed out to me an old man, whom he had seen much terrified by one classing him. I observe; in Burchell's Travels in being drive, it was said by the Hottentesty to be a nest bird. I maderstand that her made cum, in the Zoological Gardens, takes care of the nest; this habit therefore is common of the fourlet.

The Gauchos unanimously affirm that several females lay in one nest. I have been positively told, that four or five hen birds have been actually watched and seen to go, in the middle of the day, one after the other, to the same nest. I may add, also, that it is believed in Africa, that two or more females lay in one nest, t Although this habit at first appears very strange, I think the cause may be explained in a simple manner. The number of eggs in the nest varies from twenty to forty, and even to fifty; and according to Azara to seventy or eighty. Now although it is most probable, from the number of eggs found in one district being so extraordinarily great, in proportion to that of the parent birds, and likewise from the state of the ovarium of the hen, that she may in the course of the season lay a large number, yet the time required must be very long. Azara states,† that a female in a state of domestication laid seventeen eggs, each at the interval of three days one from another. If the hen were obliged to hatch her own eggs, before the last was laid, the first probably would be addled; but if each laid a few eggs at successive periods, in different nests, and several hens, as is stated to be the case, combined together, then the eggs in one collection would be nearly of the same age. If the number of eggs in one of these nests is, as I believe, not greater on an average than the number laid by one female in the season, then there must be as many nests as females, and each cock bird will have its fair share of the labour of incubation; and this during a period when the females probably could not sit, on account of not having finished laying. I have before mentioned the great numbers of huachos, or scattered

[•] It appears, also, from Mr. Gould's late most interesting discoveries regarding the labits of the Talqualla Lathami, (an Australian bird, one of the Rances,) that several females lay in one not, and that the eggs are latitled by the leat engendered by a mass of decaying vegatiles uniter. It appears that the males assist the females in nextaking together the leaves and earth, of which the great conicial mound or not is composed.

[†] Burchell's Travels, vol. i. p. 280.

[§] Lichtenstein, however, (Travels, vol. ii. p. 25.) states, that the hens begin to sit when ten or twelve eggs are hid, and that they afterwards continue laying. He affirms that by day the hens take turns in sitting, but that the cock sits all night.







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Rhea Darwinii.



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eggs; so that in one day's hunting the third part found were in this state. It appears dolt hat so many should be wasted. Does it not arise from some difficulty in several females associating together, and in finding a male ready to undertake the office of incubation? It is evident that there must at first be some degree of association, between at least two females; otherwise the eggs would remain scattered at distances far too great to allow of the male collecting them into one next. Some authors believe that the scattered eggs are deposited for the young birds to feed on. This can hardly be the case in America, because the hanches, although often found addled and putrid, are generally whole.

2. Rhea Darwinii. Gould.

PLATE XLVII,

Gould, in Proceedings of Zoological Soc. 1837, p. 35.

R. pallide fusca, plumă singulă distinctă semilunari notă candidă terminată; copite collo, fenoribusque pallidioribus: rostri culmine augusti, ad apiccun latiore, frontes plumis pareis selosia satică directes et supra surrea extensi; stravi lateribus in dimidium partem plumis pareis mollibus tectis; tarso \u00e4 untice posticeque toto, supumis reticulatis tecto.

Long. tot. 52 une.; ale, 30; tarri, 11; rostri, 2.

The whole of the planage light brown, each feather with a decided crescent-shaped mark of pare white at the extremity; head, neck, and thighs lighter; base of the neck blackish; culmen of the bill narrow, becoming a little broader towards apex; front with small bristly feathers, pointing forwards and reaching over the nostrils. Tarsas with small downy feathers on sides, extending half way downwards; upper two-thirds of front of tarsus, and whole hinder side, with recitaculated scales.

Habitat, Eastern Patagonia (Lat. 40° S. to 54° S.)

This species, which Mr. Gould, in briefly characterizing it at a meeting of the Zoological Society, has done me the honour of calling after my name, differs in many respects from the Rhen Americana. It is smaller, and the general tinge of plenumge is a light brown in place of grey; each feather being conspicuously tipped with white. The bill is considerably smaller, and especially less broad at its base; the culmen is less than half as wide, and becomes slightly broader towards the apex, whereas in the R. Jauricans it becomes slightly moreour; the extremity, however, of both the upper and the lower mandible, is more tunid in the latter, than in the R. Dauricans.

er ett et er etter bei bei bei beide er er		R.	Darwinii.	B. Americana. torbes
Length of beak, from edge of membrane at base to the apex			2	25
Length, from anterior margin of eye to apex			3,4	540
Width of upper mandible, measured across middle of nostrils			1,3	15

The skin round and in front of the eyes is less bare in R. Dureini; and small bristly feathers, directed forwards, reach over the nostrils. The feet and tarsi are nearly of the same size in the two species. In the R. Dureinii, short plumose feathers extend downwards in a point on the sides of the transs, for about half its length. The upper two-thirds of the transs, in front, is covered with reticulated scales in place of the board transverse hand-like scales of the R. Smoricoms; and the scales of the lower third are not so large as in the latter. In the R. Dureinii the entire length of the back of the transs is covered with reticulated scales, which increase in size from the heed upwards: in the common Rlos, the scales on the hinder side of the transs are reticulated only on the heel, and shoot an inch above it; all the upper part consisting of transverse bands, similar to those in front.

The first notice I received of this species was at the Rio Negro, in Northern Patagonia, where I repeatedly heard the Gauchos talking of a very rare hird called Arestruz Petise. They described it as being less than the common ostrich (which is there abundant), but with a very close general resemblance. They lower down than those of the common ostrich. It is more easily caught by the bolas than the other species. The few inhabitants who had seen both kinds. affirmed that they could distinguish them apart, from a long distance. The eggs, however, of the small species appeared more generally known, and it was remarked with surprise, that they were very little less than those of the common Rhea, but of a slightly different form, and with a tinge of pale blue. Some eggs which I picked up on the plains of Patagonia, agree pretty well with this description: and I do not doubt are those of the Petise. This species occurs most rarely in the neighbourhood of the Rio Negro; but about a degree and a half further south they are tolerably abundant. One Gaucho, however, told me he distinctly recollected having seen one, many years before, near the mouth of the Rio Colorado, which is north of the Rio Negro. They are said to prefer the plains near the sea. When at Port Desire in Patagonia (Lat. 48°), Mr. Martens shot an ostrich; I looked at it, and from most unfortunately forgetting at the moment, the whole subject of the Petises, thought it was a two-third grown one of the common sort. The bird was skinned and cooked before my memory returned. But the head, neck, legs, wings, many of the larger feathers, and a large part of the skin, had been preserved. From these a very nearly perfect specimen has

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been put together, and is now exhibited in the museum of the Zoological Society. M. A D'Orbigny, a distinguished Prench naturalist, when at the Rio Nggo, made great exertinas to procure this bird, but had not the good fortune to succeed. He mentions it in his Travels (vel. ii. p. 76), and proposes (in case, I, presume, of his obtaining a specimen at some future time, and thus being able to characterize it,) to call it Rhap possata. A notice of this species was given long since (A.D. 1749) by Doberizhderic, in his account of the Abipones (vol.). Eng. Trans. p. 314). He says, "You must know, moreover, that Enus differ in size and habits in different trates of land; for those that inhabit the plains of Buenos Ayres and Tucuman are larger, and have black, white, and grey feathers; those near to the Strait of Magellan are smaller, and more beautiful, for their white feathers are tipped with black at the extremity, and their black ones in like manner terminate in white."

Among the Patagonian Indians in the Strait of Magellan, we found a halfbred Indian, who had lived some years with this tribe, but had been born in the northern provinces. I asked him if he had ever heard of the Avestruz Petise? He answered by saying, "Why there are none others in these southern countries." He informed me that the number of eggs in the nest of the Petise is considerably less than with the other kind, namely, not more than fifteen on an average; but he asserted that more than one female deposited them. At Santa Cruz we saw several of these birds. They were excessively wary: I think they could see a person approaching, when he was so far off as not to distinguish the ostrich. In ascending the river few were seen; but in our quiet and rapid descent, many, in pairs and by fours or fives, were observed. It was remarked by some of the officers, and I think with truth, that this bird did not expand its wings, when first starting at full speed, after the manner of the northern kind. The fact of these ostriches swimming across the river has been mentioned. In conclusion, I may repeat that the R. Americana inhabits the eastern plains of S. America as far as a little south of the Rio Negro, in lat. 41°, and that the R. Darwinii takes its place in Southern Patagonia; the part about the Rio Negro being neutral territory. Wallis saw ostriches at Bachelor's river (lat 53° 54'), in the Strait of Magellan. which must be the extreme southern possible range of the Petise,

ORDER-GRALLATORES.

OREOPHILUS TOTANIROSTRIS. Jard. & Selb.

My specimens were obtained at Maldonado and at Valparaiso. At the former, it was common, feeding on the open grassy plains in small flocks, mingled with the icteri and the thrush-like Xolonis variegata. When these birds rise on the wing, they utter a plaintive cry. Legs "crimson red;" toes leaden colour, with their under surface remarkably soft and fleshy. Iris dark brown.

CHARADRIUS VIRGININUS. Borkh.

Charadrius virgininus, Borkh. Act. Acad. Czes. Leop. Car. Nat. Cur. 1834. xvi. pl. 18. Charadrius marmoratus, Wagl.

This representative of the golden plover of Europe and North America, is common on the banks of the Piata in large and small flocks. It is found also, according to Meyer, in Chile.

> SQUATAROLA CINCTA. Jard. & Selby.
> Tringa Urvilli, Garnot, Ann. Ie. Nat. Jan. 1826.
> Yanellus cienta, Los. Voy. de la Coqu. Zool. p. 720. pl. adii Squatarola cincta, Jard. & Solby's Illust. Orn. pl. 110.

I obtained specimens of this bird in Tierra del Fuego, where it inhabited both the sea shore and the bare stony summits of the mountains; at the Falkland Islands, where it frequented the upland marshes; and at Chiloe, where I met with large flocks in the fields, not near the coast.

2. SQUATAROLA FUSCA. Gould.

8. vertice corporque supra fuecis, dorsi parapterique plumis pallidiore morginatis remigidus primarios sigreccardi fuecis, poquisi extensi allo magusti merginatis rehacibus albis i unoquei condalpue obseroi fuecis, remigibus externis albo lati martenistis, fronte, genis, gall, alboiume postice, cunteque teginatis de terminatis; fronte, genis, gall, alboiume postice, cunteque teginatis dusferioribus fuececenti albis, colli pertorisque lateribus fuecis, colli plumis fueco pallido terminati; pollibus signitis; pollibus signitis; pollibus signitis.

Long. tot. 8 unc. alm, 52; cander, 3; tarri, 12; restri, 2.

Crown of the head, all the upper surface brown, the feathers of the back and the scapularies, margined with paler; primaries blackish brown, finely edged on their inner margins with white, and with white shafts; rump and tail dark brown, the outer feathers largely margined and tipped with white; forehead and sides of the face sandy white; throat, lower part of the abdomen, and under tail coverts, boffy white; sides of the neck and chest brown; the feathers of the latter timed with still lighter brown; bill and fere black.

Habitat, Maldonado; inland glassy plains.

This species is most closely allied to the foregoing. I obtained only one specimen, which, on comparison with several of the S. cincta, appears a little larger in all its dimensions, especially in the length of the tarsi. Its back and scapu-

laries are of a more uniform brown, the feathers being less edged with pale brown. Its feet are black, whereas those of $S.\ cineta$ are brown.

PHILOMACHUS CAYANUS. G. R. Gray. Charadrius Cayanus, Lath. Ind. Orn. 11, 748.

I met with this bird from latitude 30° to 45° S, on both sides of S. America. In La Plata it is called "Teru-tero," in imitation of its cry; and in Chile, according to Molina, "Theghel." These birds, which in many respects resemble in habits our peewits (Vanellus cristatus), frequent, generally in pairs, open grassy land, and especially the neighbourhood of lakes. As the peewit takes its name from the sound of its voice, so does the teru-tero. While riding over the grassy plains, one is constantly pursued by these birds, which appear to hate mankind, and I am sure deserve to be hated for their never-ceasing unvaried harsh screams. The stillness of the night is often disturbed by them. To the sportsman they are most annoying, by announcing to every other bird and animal his approach: to the traveller in the country, they may possibly, as Molina says, do good, by warning him of the midnight robber. During the breeding season, they attempt, like our peewits, by feigning to be wounded, to draw away from their nests dogs and other enemies. Their eggs are of a pointed oval form; of a brownish olive colour, thickly spotted with dark brown. Their eggs, like those of the peewit, are esteemed particularly good eating.

HIATICULA AZARE. G. R. Gray.

Charadrius Azare, Tessus. pl. col. 184.

collaris, Violl.

Albatuitui à collier poir, Avara, No. 392.

My specimens were obtained on the banks of the Plata and at Valparaiso. The specimen from the latter country differs from those procured at the former, in the absence of the black collar on the breast, of the black streak running from the eye to the corner of the mouth; in the plumage of the back and back of head having a lesser tinge of red; and especially in the feet being black, and tarsi blackshi, instead of both being orange, as is the case with those killed on the shores of the Plata. I have not, however, thought it desirable to make two species of these brinks, not having a larger series of specimens for comparison.

> HIATICULA TRIFASCIATUS. G. R. Gray Charadrius bifasciatus, Licht. Vog. Verz. p. 71.
> trifasciatus, Woyl. Syst. Av. sp. 31.

I procured two specimens of this bird at Bahia Blanca, in Northern Patagonia.

3. HIATICULA SEMIPALMATA. G. R. Gray.

Charadrius semipalmatus, Caup. Isis. 1825, p. 1375, t. 14. Wagl. Syst. Av. sp. 5
Binap. Am. Orn. iv. pl. 25, f. 4.

Galapagos Archipelago.

HEMATOPUS PALLIATUS. Temm.

Rio Plata.

EGRETTA LEUCE. Bonap.

Ardea Egretta, Wils. Am. Orn. pl. 61, f. 4.

My specimen was procured at Maldonado. I saw it also in Patagonia

Ardea herodias. Linn.

Galapagos Archipelago. Frequents the sea-coast and salt-lagoons. There are no fresh water pools in any of these islands.

1. NYCTICORAX VIOLACEUS. Bonap

Arten violacen, Lann.

Mr. G. R. Gray has thought it advisable to give the following description of this specimen, from the Gallapagos Archipelago. It appears to be a young bird, and is small in all its dimensions.

Upper part blackishery; each feather marked down the middle with a broad stripe of black, and tinged on the margins with shining bround-brown; beneath the body blackish-grey, with the front of the neck, top of the bend, and margins of the feathers on the thighs relows; the sides of the head and throat deep black, the former divided in the middle on each side with a patch of white; the bull black, and feet of a pale reddisk colour.

2. Nycticorax americanus. Bonap.

Ardea nycticorax, Wile. (young bird.)

Valparaiso, Chile.

THERISTICUS MELANOPS. Wagl.

Ibis melanops, Lath. Hist. ix. pl. 150.

This bird frequents the desert gravelly plains of Patagonia, as far south as lat. 48": in the British Museum there are specimens which Captain Chaperton brought from central Africa; so that this bird has an extraordinarily wide range. It generally lives in pairs, but during part of the year in small flocks. Its eyr is very singular and loud: when it is heard at a distance it closely resembles the neighing of the guanaco. I opened the stomach of two specimens, and found in them remains of lizards, cicales, and scorptions. It builds in rocky tolifs on the

sea-shore: egg dirty white, freckled with pale reddish-brown; its circumference over longer axis is seven inches. The legs are carmine and scarlet-red: iris scarlet-red.

IBIS (FALCINELLUS) ORDI. Bonap. Tantalus Mexicanus, Ord. Journ, Acad. Phil. Tantalus chalcopterus ? Tomm. Bis Falcinellus, Bonap. Am. Orn. iii.

My specimen was obtained at the Rio Negro: it is very numerous in large flocks on the vast swampy plains between Bahia Blanca and Buenos Ayres. Its flight when soaring is singularly graceful; the whole flock moving in precise

1. NUMENIUS HUDSONICUS. Lath.

This curlew is very abundant on the tidal mud-banks of Chiloe. When the flock rises, each bird utters a shrill note.

2. Numenius Brevirostris. Licht.
Numenius brevirostris. Licht. Cat. 75, sp. 774 a.

Buenos Ayres.

Limosa Hudsonica. Sicains. Seolopax Hudsonica, Lath. Ind. Orn. ii. 720.

My specimens were obtained from the Falkland Islands and from Chiloe, where it frequented the tidal mud-banks in flocks.

1. Totanus flavipes, Vieill.

Totanus flavipes, Vieill. Eney. Meth. 1106.

Yellow shanks snipe, Penn. Arct. Zool. ii. 468.

Wills. Am. Orn. pl. 58. f. 4.

Monte Video, Rio Plata.

Totanus Macropterus. G. R. Gray.
Tringa mucroptera, Spir. Av. n. sp. pl. 92.
 Monte Video, Rio Plata.

 TOTANUS MELANOLEUCOS. Licht. et Vieill. Scolopax melanoleuca, Gmel.
 Scolopax vocifierus, Wile. Am. Orn. pl. 58, f. 5.
 Chorlito à croupion blanc, Avara, No. 394.
 Totanos solitarius, Fieill.

Maldonado, Rio Plata.

4. Totanus fuliginosus. Gould

T. corpore supra caudaque fuliginoso-griseis; alis fuscis; gutture albo; pectore hypochondriisque plamboo-griseis; abdomine medio, cauda tegminibus inferioribus albis, illis obscure, his plane grisescenti fusco fascialis; rostri rubescenti fusco; pedibus obscure olivacco fuscis.

Long. tot. 94 unc. als. 64; anuds. 3; tarri, 14; restri, 5.

The whole of the upper surface and tail sooty-grey; wings dull brown; throat white; chest and flanks leaden grey; centre of the abdomen and under tail coverts white, the former indistinctly, and the latter distinctly, barred with greyish brown; bill, reddish-brown; feet, dark olive-brown.

rabitat, Gatapagos Archipetago (October).

HIMANTOPUS NIGRICOLLIS. Vieill.
Himantopus nigricollis, Vieill. Ency. Meth. 340.

My specimens were obtained from the provinces bordering the Pista. On the great swampy plains and fens which lie between Bosens Ayres and Bahin Blanca, it is very numerous in small, and occasionally, in large flocks. This plover, which appears as if mounted on stilts, has been wrongfully accused of inelegance; when wading about it shallow water, which is its favourier resort, its gait is far from awkward. In a flock it utters a noise, which singularly resembles the ery of a pack of small dogs in full chase; when I travelled across the above mentioned plains, I was more than once startled, when lying awake at night, at the distant sound, and thought the wild Indians were coming

Trings rufescens, Violl., N. Diet, d'Hist. Nat. 34,

Ency. Meth. Orn. p. 1090.

Gal. des Ois. pl. 238.

- Yarrel, Lin. Trans.

(Lo. U. Rieds of Engree vi.

Monte Video, Rio Plata.

8. 131

Pelidna Schinzii. Bonap.
 Tringa Schinzii, Brohm. Bonap. Am. Orn. iv. pl. 24. f. 2.
 Palidan cinclus. var. Saw.

Flocks of this species were common on the shores of the inland bays in the southern parts of Tierra del Fuego.

2. Pelidna minutilla. Gould.
Tringa minutilla, Vieill, Ency. Meth. 1089.

Galapagos Archipelago. Both the specimens which I procured here are smaller than the ordinary size of this bird, but do not differ in other respects. Vicilitot says it ranges from the Antilles to Canada.

RHYNCHEA SEMICOLLARIS. G. R. Gray,
Totanus semicollaris, Vieill, Ency. Meth. p. 1100.
Rhynchus Hilaira, Valenc. Less. III. de Zool. pl. 18.
Rhynchus occidentalis, King, Zool. Journ. iv. 94.
Le choritio a demi colliers blanc et nointer, Azara, No. 409.

Monte Video, Rio Plata. Frequents swamps; habits like the Scolopax

1. SCOLOPAX (TELMATIAS) PARAGUALE. Vicill.

Scolopax Parguai, Veidl. Ency. Meth. p. 1160.

——Bratillinis, Sucius, Faun. Bor. Am. Birds, p. 400.
Becastine 1st Espece, Azoru.

Valparaiso and Maldonado, Rio Plata.

 Scolopax (Telmetias) Magellanicus. King. Scolopax Magellanicus, King, Zool. Journ.

My specimens were obtained from Maldonado and East Falkland Island. Hight a very little less irregular and rapid than the English mips. I several times in May observed this, as well as the foregoing species, flying in lofty circles, and suddenly stooping downwards, at the same time that it uttered a peculiar drumning noise, similar to that made by the English saipe in summer, when breeding. This species is most closely allied to the foregoing, but I have no doubt it is distinct; because at the time when I procured specimens of both at Maldonado, I precieved a difference between them. This species is there more abundant than the S. Paragunies. Its beak is nortly three-tentils of an inch shorter, and the culmen rather broader. The plumage of its back is of a decidedly less dark titt; each separate feather having much less black is it. STREPSILAS INTERPRES. Ill.

ga Morinellus, L.

I obtained specimens from Iquique, on the coast of Peru, and from the Galapagos Archipelago.

CREX LATERALIS. Licht.

Maldonado, Rio Plata. On being disturbed readily takes wing. Base of the bill, especially of the lower mandible, bright green.

1. Zapornia notata. Gould

Z. corpor toto supra nigrescenti-fueco, planul singuli medio albo-guttati et diseaso-fueco laté marginaté; remigibus fuecis, mento albo, corpore infra fuececenti-nigro, gutture pectorque albo-straits; abdomine tegminibusque caude inferiorbus albo irregularitor transcerei strigato; rostro obscure corno; pedibus olivaco-viridibus. Long. tot. 5 (no. 6, 15); cush. (1; no. 7, 1; no. 7).

The whole of the upper surface blackish brown, each feather spotted with white down the centre, and largely margined with olive brown; quills plain brown; chin white; the remainder of the under surface brownish black, striated with white on the throat and chest, and crossed by irregular bars of the same on the abdomen and under tail coverts; bill dark hom colour; feet olive green.

Habitat, Rio Plata. (Shot on board the Beagle.)

2. Zapornia spilonota. Gould
Plate XLIX.

Z. capite corporeque infra, nigrescenti-griseis; corpore supra obseure rubrofusco, uropogio obseurè grisescenti-nigro; alis hypochondriis postice, tegminibusque cauda inferioribus albo pareiter sparsis; rostro nigrofusco; pedibus rubescentibus; iridibus carminois.

Long. tot. 5\\ unc.; alor, 2\\ ; cando, 1; tarri, \\ ; restri, \\ .

Head and all the under surface blackish grey; all the upper surface dark reddish brown, fading off on the rump into deep greyish black; the wings, hinder part of the flanks, and under tail coverts slightly sprinkled with white; bill, blackish brown; feet, reddish; iris, bright searlet.

Habitat, Galapagos Archipelago.













Zapornia spilonota.



This lird frequents in large numbers the high and damp summits of the islands. It lives in the thick beds of carex and other plants, which, from the condensed vapour of the clouds, are constantly kept rather humid. It is tune, but lives concealed; it often utters a lood and peculiar cry. The female is said to lay from eight to twelve eggs. It is, I believe, the only bird in this archipelago which is exclusively confined to the upper parts of the islands. With respect to the specific description, I must observe, that in one of the specimen, the few and small white spots on the wings and abdomen are vanting. This is not a sexual distinction, but possibly may be owing to immaturity.

1. RALLUS PHILLIPENSIS. Linn.

Common on the low coral islets, forming the Keeling or Cocos Atoll in the Indian ocean. With the exception of a snipe, this was the only bird without webfeet which inhabited this group.

RALLUS YPECAHA. Vieill.
 Rallus ypecaha, Vieill. Ency. Meth. p. 1071.
 Crex melampyga, Lieht. Cat. Sp.
 L'Yoccaha, Azawa. No. 367.

Buenos Ayres.

3. RALLUS SANGUINOLENTUS. Sicains.
Rallus sanguinolentus, Secaiss, 2 cent. and a quart.

Valparaiso.

Gallinula crassirostris. J. E. Gray.

Gallinula crassirostris, J.E. Gray, in Griff, An. Kingd.

I obtained specimens on the banks of the Plata and at Valparaiso.

FULICA GALRATA. G. R. Gray. Crex galenta, Lield, Cat. 80, sp. 828. Yahana proprement dit, Assawa, No. 379.

Concepcion, Chile.

PORPHYRIO SIMPLEX. Gould.

P. vertice, remigibus primariis obscurè olivacco-viridibus, harum apicibus flavescenti albo anguste marginatis; corpore supra obscure olivaceo-viridi, plumă singulă

obscurè fulvo late marginatà; genis gutture, corporeque infra flavescentibus; rostro rubro; pedibus viridescenti-flavis,

Long. tot. 9 unc.; ale, 51; cande, 21; terri, 11; restric 1.

Habitat, Ascension Island, Atlantic Ocean. (July.)

This specimen was killed with a stick near the summit of the Island. It was evidently a straggler, which had not long arrived. There is no aboriginal land bird at Ascension.

ORDER-PALMIPEDE

Anser melanopterus, Eyton, Monog. Anatidm, p.
Playe I.

Captain FitzRoy purchased a skin of this fine goose at Valparaiso, which he has presented to the British Museum. There is another specimen at the Zoological Society, which Mr. Penthaud procured from the lake of Titicaea, in Bolivie

CHLOEPHAGA MAGELLANICA. Eyton.

Anas Magellanica, Gmol. Syst. 1, 505.
Chloephaga Magellanica, Eyton, Monog. Anatidm, p. 82.
Bernicla leocostera. Low. Trait d'Ornith, 627.

This gooe is found in Tierra del Fueço, and at the Falkland Islands; at the Intert its common. They live in pairs and in small focks throughout the interior of the island, being rarely or never found on the sea-coast, and seldous even near fresh-water lakes. Teliever this bird does not migrate from the Falkland Islands; it builds on the small outlying islets. This latter circumstance is supposed to be owing to the fear of the foxes; and it is perhaps from the same cause, that although very tame by day, they are much the contrary in the dask of the verning. These goes live entirely on vegetable matter: they are called by the seamen, the "upland greese." Mr. Eyron, in his excellent Monograph on the same excellent the tracked of this bird, which I Drought Homein sairlise.

Bernicla antarctica, Steph. Sh. Zool. xii. 59.

—Eyton, Monograph, p. 84.

Anas Antarctica, Guel. Syst. i. 505.

This goose is common in Tierra del Fuego, the Falkland Islands, and on the western coast, as far north as Chiloe. It is called by the sailors the "rock goose," as it lives exclusively on the rocky parts of the sea-coast. In the deep and retired







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Anser melanopterus.



channels of Tierra del Fuego, the snow-white male, invariably accompanied by his darker consort, and standing close by each other on some distant rocky point, is a common feature in the landscape. Mr. Eyton has described the treachea of this species, which I brought home.

P.ECILONITTA BAHAMENSIS. Eyton.
Precilonitta Bahamensis, Eyton, Monog. p. 116.
Anna Bahamensis, Linu. Syst. i. 199.
Marcea Bahamensis, Steph. Gen. Zool. xii. p. 137

A specimen was procured from a small salt-water lagoon in the Galapagos Archipelago (October.)

It was a male; bill, lead colour; base of superior mandible purple, with a black mark in the upper part.

> Dafila urophasianus, Eyton, Monog, Amtide. p. 11: Ams urophasianus, King, Zool, Journ. iv. 351.

Bahia Blanca, Northern Patagonia.

RHYNCHASPIS MACULATUS. Gould.

Rhynchaspis maculatus, Gould, in Jard. & Selby Illust. Orn. p. 147. pl. 147.

Mr. Gould observes that, "A good figure of this beautiful shoveller may be found in the 2nd vol. of Messes, Jardine and Selly's Illustrations of Ornithology. Their figure was taken from an example which I forwarded to those gentlemen with the name of sucedata attached: my specimen was received from the Rio Plata, and this is also the locality whence (in October) Mr. Darwin's specimen was precured. The numerous and conspicuous spots distributed over the body, renders this species readily distinguishable from all the other members of the genus."

> QUERQUEDULA ERYTHRORHYNCHA. Eyton. Querquedula erythrorhyncha, Eyton, Monog. Anatidæ, p. 127. Anas erythrorhyncha, Spix, Av. Nov. sp. pl.

My specimens were obtained from Buenos Ayres (October) and the Straits of Magellan (February.)

 QUERQUEDULA CRECCOÏDES. Eyto Querquedula creccoides, Eyton, Monog. Anatidae, p. 128.
 Anas creccoides, King, Zool. Journ. iv. 99.

Mr. Gould observes that, "This species was first described by Mr. Vigors,

from a specimen in the collection brought from the Straits of Magellan, by Capt. P. P. King. It is a true teal, and in size and form closely assimilates to the common teal of Europe, and to the species inhabiting North America (Querqueotala Curdineaus, Bonap.) to both of which it is evidently an analogue, and doubtless represents those birds in the southern half of the American continent." My apecimens were procured from the Rio Plata, and from the Straits of Macellan.

MICROPTERUS BRACHYPTERUS. Eyton. Micropterus brachypterus, Eyton, Monog. Anat. p. 1: Anas brachytera, Lath. Ind. Om. ii. 834.

These great logger-headed ducks, which sometimes weigh as much as twentytwo pounds, were called by the old navigators, from their extraordinary manner of paddling and splashing over the water, race-horses, but now much more properly steamers. Their wings are too small and weak to allow of flight, but by their aid, partly swimming and partly flapping the surface of the water, they move very quickly. The manner is something like that by which the common house duck escapes, when pursued by a dog; but I am nearly sure that the steamer moves its wings alternately, instead of, as in other birds, both together. These clumsy birds make such a noise and splashing, that the effect is most curious. The steamer is able to dive but a very short distance. It feeds entirely on shellfish from the floating kelp and tidal rocks; hence the beak and head are surprisingly heavy and strong, for the purpose of breaking them. So strong is the head, that I have sometimes scarcely been able to fracture it with my geological hammer; and all our sportsmen soon discovered how tenacious these birds were of life. When pluming themselves in the evening in a flock they make an odd mixture of sounds, somewhat like bull-frogs within the tropics,

1. Podiceps kalipareus. Quoy & Gaim.

My specimens were obtained from Bahia Blanca (September), Northern Patagonia, and the Falkland Islands. In the former-place it lived in small flocks in the salt-water channels, extending between the great masshes at the head of the harbour. A the Falkland Islands I saw (March) very few individuals; and these only in one small fresh-water lake. Tarsi of the same colour as the plumge of the back; iris of a beautiful tint, between "seartet and carnine refe;" pupil black. Mr. Gould remarks that, "This beautiful species of Pooliogus is equal in size, and has many of the characters of the Poorities, but is at once distinguished from that species by the silvery colouring of the plumes that adom the sides of the head; which in P. Ameritas was deep electatur."

2. Podiceps rollandii. Quoy et Gaim.

I obtained specimens from the Falkland Islands (March), where it was common at the head of the tortuous bays which intersect those islands; from a fresh water lake near the Strait of Magellan (February); and from the eastern coast of Chiloe. The male and female have the same plumage. Iris of a fine red colour. Mr. Gould adds that, "this species appears to be as nearly related to the Podiceps cornutus, as the preceding species is to P. auritus, but is readily distinguishable from it, by the white spot in the centre of the tuft of feathers that spring from the sides of the face."

3. Podiceps Chilensis. Garnot. Le macas cornu. Azere, No. 443.

This specimen was procured in a fresh-water lake near Buenos Avres. Capt. P. King brought home specimens from the salt-water channels in Tierra del Fuego, where it is excessively numerous. It often makes a very melancholy cry, which suits the gloomy climate of those desolate shores.

SPHENISCUS HUMBOLDTII. Meuen.

Spheniseus Humboldtii, Mesen. Nov. Act. Acad. Coss. Leon. Car. Nat. Cur. 1834, 110, pl. 21. My specimen was obtained near Valparaiso. Meven, who first described this bird, procured it from the coast of Peru.

Puffinus cinereus. Steph. Puffinus cinereus, Stepl., Gen. Zool, xiii, p. 227. Procellaria puffinus, Liun.

This bird frequents the seas on the whole coast of South America. I obtained specimens from Tierra del Fuego, Chiloe, the mouth of the Plata, and Callao Bay on the coast of Peru. It is likewise known to be common in the Northern Hemisphere; this species, therefore, has a most extensive range. It generally frequents the retired inland sounds in very large flocks; although, occasionally, two or three may be seen out at sea. I do not think I ever saw so many birds of any other sort together, as I once saw of these petrels, behind the Island of Chiloe. Hundreds of thousands flew in an irregular line, for several hours in one direction. When part of the flock settled on the water, the surface was blackened; and a cackling noise proceeded from them, as of human beings talking in the distance. At this time, the water was in parts coloured by clouds of small crustacea. The inhabitants of Chiloe told me that this petrel was very irregular in its movements; -- sometimes they appeared in vast numbers, and on the next day not one was to be seen. At Port Famine, every morning and evening, a long band of these birds continued to fly with extreme rapidity, up and down the central parts of the channel, close to the surface of the water. Their flight was direct and vigorous, and they seldom glided with extended wings in graceful curves, like most other members of this family. Occasionally, they settled for a short time on the water; and they thus remained at rest during nearly the whole of the middle of the day. When flying backwards and forwards, at a distance from the shore, they evidently were fishing: but it was rare to see them seize any prey. They are very wary, and seldom approach within gun-shot of a boat or of a ship:-a disposition strikingly different from that of most of the other species. The stomach of one, killed near Port Famine, was distended with seven prawn-like crabs, and a small fish. In another, killed off the Plata, there was the beak of a small cuttle-fish. I observed that these birds, when only slightly winged, were quite incapable of diving. There is no difference in the plumage of the sexes. The web between the inner toes, with the exception of the margin, is "reddish-lilac-purple;" the rest being blackish. Legs and half of the lower manthis species, which live in the Northern Hemisphere, appear to have exactly

> Pelecanoides Berardi. G. R. Gray Puffinuria Berardi, Lew. Tr. d'Orn. p. 614.

This bird is common in the deep and quiet creeks and inland seas of Tierra del Fuergo, and on the west coast of Patagoini, as far north as the Chonse Archipelago. I never saw but one in the open sea, and that was between Tierra del Fuergo and the Falkland Islands. This bird is a complete an kin its habits, atthough from its structure it must be classed with the Petrels. To the latter Mr. Gould informs me, its affinity is clearly shewn by the form of its beak and nostrils, length of foot, and even by the general colouring of its plumage. To the wask it is related in the general form of its body, its short wings, happe of tail, and absence of hind-toe to the foot. When seen from a distance and undisturbed, it would almost certainly be mistaken, from its manner of swimming and frequent diving, for a grebe. When approached in a boat, it generally dives to a distance, and on coming to the surface, with the same movement takes flight: having flown some way, it drops like a stone on the water, as if struck dead, and instanceouly dives again. No one sendent this for the first time, thus driving the same movement that the content is the same than the content that the content is the same than the content that such that the same movement that for the first time, thus driving flown some way, it drops like a stone on the water, as if struck dead, and instanceouly dives again. No one sendent his bird for the first time, thus driving

like a grebe and flying in a straight line by the rapid movement of its short wings like an ank, would be willing to believe that it was a member of the family of petrels;—the greater number of which are eminently pelagic in their habits do not dive, and whose flight it smally most gracefol and continuous. I observed at Port Famine, that these birds, in the evening, sometimes flew in straight lines from one part of the sound to another; but during the day, they searcedy ever, I believe, take wing, if undisturbed. They are not very wild: if they had been so, from their habit of diving and flying, it would have been extremely difficult to have procured a specimen. The legs of this bird are of a "flax-flower blue."

Pelecanoides Garnotti. G. R. Gray. Puffinuria Garnotti, Less. Voy. de l'Coqu. pl. 46. Procellaria ministrir. Gra ?

My specimen was obtained at Iquique (lat. 20' 12'), on the coast of Peru.

M. Lesson, who first described this species, says (Manuel d'Omithologie, vol. ii.

p. 394), "Le puffinure de Gurnut habite par grandes troupes le long des côtes du
Pérou. Il vole médiocrement bien, d'une manière précipitée et en rasant la
mer; mais il préfère se tenier ne repos sur la surface des eaux, et louges très
frequemment à la manière des grèbes, sans doute pour saisir les petits poissons
qui forment sa pature." An annomical description of this brile is there given.

1. PROCELLARIA GIGANTEA. Gmel.

This bird, which is called by the English, "Nelly," and by the Spaniards, "Quebranta-huesos," (properly an osprey,) is common in the southern latitudes of South America. It frequents both the inland sounds, and the open ocean far from the coast. It often settles and rests on the water. The Nelly, in its flight and general appearance on the wing, has many points of resemblance with the Albatross: but, as in the case of that bird, it is in vain to attempt observing on what it feeds; both seem to hunt the waters for days together, in sweeping circles, with no success. In the stomach, however, of one which I opened, there was the beak of a large cuttle-fish. The Nelly, moreover, is a bird of prey: it was observed at Port St. Antonio, by some of the officers of the Beagle, to kill a diver-The latter tried to escape, both by diving and flying, but was continually struck down, and at last was killed by a blow on its head. At Port St. Julian, also, these great petrels were seen killing and devouring young gulls. The Nelly breeds on several of the small islands off the coast of Patagonia; for instance, Sea-Lion Island, in the mouth of the Santa Cruz. Most other species of the family retire for the purpose of breeding to the Antarctic Islands.

I have often observed in the southern seas, a hird similar in every respect to the Nelly, excepting in its plumage, being of a much more intense black, and its bill rather whiter. I procured a specimen thus coloured, at Port Famine, and had concluded that it was a distinct species, until Mr. Low, (an excellent practical observer, long acquainted during his scaling voyages with the productions of these seas,) assured me that he positively knew, that these black varieties were the one-year-old brists of the common greyish black Nelly.

PROCELLARIA GLACIALOÏDES. A. Smith. Procellaria elacialoïdes. A. Smith. Illust. of Zool. of S. Afrira. Aves. pl. 51.

I saw this petrel on both sides of the Continent south of 1a, 30° ; but seldom more than two or three together. I am informed that it arrives in Georgia in September for the purpose of breeding, and that it lays its eggs in holes in the precipies overheading the sea. On the approach of winter it is said to retire from that island. My specimen was caught in the Bay of St. Mathias (lat, 43° S.) by a line and bent pin, baited with a small piece of pork; the same means by which the Pirtado (Dapt, Capps, is so easily caught. It is a tame, sociable, and silent bird; and often settles on the water: when thus resting it might from a distance be mistaken, owing to the general colour of its phumage, for a guil. One or two often approached close to the stern of the Beagle, and mingled with the Pirtados, the constant attendants on vessels traversing these southern seas.

DAPTION CAPENSIS. Steph.

This petrel is extremely numerous over the whole southern occan, south of the Tropic of Capricorn. On the coast, however, of Peru, I saw them in lat, from 16° to 1° 5°. S., which is considerably further north than they are found on the shores of Brazil. Cook, in sailing south in the meritain of New Zealand, first met this bird in lat, 43° 30°. The Pintados slightly differ in some of their habits from the rest of their congeners, but, perhaps, approach in this respect nearest to P. glacialoldo. They are very tame and sociable, and follow vessels navigating these seas for many days together: when the ship is becalined, or is moving slowly, they often algift on the surface of the water, and in doing this they expand their tails like a fan. I think they always take their food, when thus swimming. When offal is thrown overboard, they frequently dive to the depth of a foot or two. They are very apt to quarrel over their food, and they then utter many harsh but not loud cries. Their flight is not rapid, but extremely elegant; and as these prettily mottled birds skim the surface of the water in graceful curves, constantly following the vessel as she drives oward in her course, they affect a sectacle

which is beheld by every one with interest. Although often speeding the whole day on the wing, yet on a fine moonlight night, I have repeatedly seen these birds following the whole of the vessel, with their usual graceful evolutions. I am informed that the Pintado arrives in Georgia for the purpose of breeding, and leaves it, at the same time with the P_c gleatishide. The scalers do not know any other island in the Antarctic ocean excepting Georgia, where these two birds (as well as the Thalassidvanue oceanic) resort to breed.

THALASSIDEOMA OCEANICA. Bonap.

Thalassidroma occanica, Bonap. Journ. Acad. Nat. Scien., Philadelphia, vol. iii. p. 233.

Procellaria occanica, Forster.

Pétrel febasse. Tenus.

I obtained this bird at Maldonado, near the mouth of the Plata, where it was blown on shore by a gale of wind. These birds, although seeming to prefer on most occasions the open ocean, and to be most active, walking with their wings expanded on the creat of the waves, when the gale is heaviest, yet sometimes visit quite Indrours, in considerable numbers. At Bahin Blanca I saw many, when there was nothing in the weather to explain their appearance. I was informed by a scaler, that they build in holes on the sea chiffs of Goorgia, where they arrive very regularly in the month of September. No other place is known to be freezented by them for the purpose of breeding.

PRION VITTATUS. Cuv. Procellaria Vittata, Guelin, Syst. i. 500.

I did not procure a specimen of this bird, although I saw numbers on both sides of the Continent from about Int. 35° St. Ozep Horn. It is a wild solitary bird, appears always to be on the wing; flight extremely rapid. Mr. Stokes (Assistant surveyor of the Beagle) informs me that they build in great numbers on Landfull Island, on the west coast of Tierra del Fuego. Their burrows are about a yard deep: they are excavated on the hill-sides, at a distance even of half a mile from the sea shore. If a person stamps on the ground over their nests, many fly out of the same hole. Mr. Stokes says the eggs are white, elongated, and of the size of those of a higkon.

1. LARUS FULIGINOSUS. Gould.

L. Mas. corpore toto obscurè plumbeo-griseo, tegminibus cauda superioribus inferioribusque pullidioribus; rostro busi rubro, apice migro; pedibus nigris.
[Sumpt. 1613. page - de 131 - ouife 6: tere; 3: rubri 23. The whole of the plumage deep leaden-grey; the upper and under tail coverts being lightest; bill red at the base, black at the tip; feet black.

Habitat, Galapagos Archipelago (October).

This species of gull has many characters in common with the Lorus homolirhyuchus of King, from the continent of S. America, but may at once be distinguished from it by the general extreme duskiness of its plumage, feet, tarsi, and bill; and by the more clongated form of the latter. My specimen was killed at James Island. I observed nothing particular in its habits. It is the only species of gulf frequenting this Archipelaction.

Larus Hematorhynchus, King,
 Larus hematorhynchus, King, Zool. Journ. iv. 103.
 Level. & Selb. Ill. Orn. p. 106.

This bird was killed at Port St. Julian on the coast of Patagonia. Beak (when fresh killed) of a pale "arterial blood red," legs "vermilion red."

3. Larus dominicanus. Licht.
Larus dominicanus, Licht. Cat. 82. sp. 846
Grande Mouette, Azars, No. 409.

This gull abounds in flocks on the Pampas, sometimes even as much as fifty and sixty miles inland. Near Buenos Ayres, and at Bahia Blanca, it attends the slaughtering-houses, and feeds, together with the Polybori and Cathartes, on the garbage and offal. The noise which it utters is very like that of the common English gull (Large soness, Lind.)

XEMA (CHROICOCEPHALUS) CIRROCEPHALUM. G. R. Gray. Larus cirrocephalus, Field. Nov. Diet. d'Histoire, 21, p. 502. Larus mensilpennis, Écolic. Cat. 82, np. 855. Larus glancodes, Meyer, Nov. Act. 1839, p. 115, pl. 24.

This species so closely resembles the X-one ridibundum, Bolè, that Mr. Gould observes, he should have hardly ventured to have characterized it as distinct; but as M. Vieillot and Meyen have deemed this necessary, he adopts their view. I have compared a suite of specimens, which I procured from the Rio Plata, the coast of Patagonia, and the Strains of Magellan, with several specimens of the X-one ridibundum; the only difference which appears to me constant, is that the primaries of the X-cirrorepladum, in the adult winter plumage, both of male and female, are tipped with a white spot (a character common to some other species), whereas in the X-ridibundum the points are black. The beaks of the latter species.

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especially the lower mandible, is also a little less strong, or high in proportion to its length. In the immature stage, I could perceive no difference whatever in the plumage of these birds. The proportional quantity of black and white in the primaries, given by Meyen as the essential character, varies in the different states of plumage. The specimens described by this author were procured from Chile.* The soles of the feet of my specimens were coloured, deep "reddish orange," and the bill dull "arterial blood-ca" of Werner's noomechature.

In the plains south of Boemos Ayres I saw some of these birds far inland, and I was told that they bred in the marsles. It is well known that the black-headed gall (Xena ridthoudatea), which we have seen comes so near the X. cirrocaphilom, frequents the inland marshes to breed. It appears to me a very interesting circumstance thus to find birds of two closely allied species preserving the same peculiarities of habits in Europea and in the wide plains of S. America. Near Beacons Ayres this gull as well as the L-dominicana sometimes attends the shaughter-bousest to pick up his of meat.

RHYNCHOPS NIGRA. Linn.

I saw this bird both on the East and West coast of South America, between latitudes 30° and 45°. It frequents either fresh or salt water. Near Maldonado (in May), on the borders of a lake, which had been nearly drained, and which in consequence swarmed with small fry, I watched many of these birds flying backwards and forwards for hours together, close to its surface. They kept their bills wide open, and with the lower mandible half buried in the water. Thus skimming the surface, generally in small flocks, they ploughed it in their course; the water was quite smooth, and it formed a most curious spectacle, to behold a flock, each bird leaving its narrow wake on the mirror-like surface. In their flight they often twisted about with extreme rapidity, and so dexterously managed, that they ploughed up small fish with their projecting lower mandibles, and secured them with the upper half of their scissor-like bills. This fact I repeatedly witnessed, as, like swallows, they continued to fly backwards and forwards, close before me. Occasionally, when leaving the surface of the water, their flight was wild, irregular, and rapid; they then also uttered loud harsh cries. When these birds were seen fishing, it was obvious that the length of the primary feathers was quite necessary in order to keep their wings dry. When thus employed, their forms resembled the symbol, by which many artists represent marine birds. The tail is much used in steering their irregular course.

These birds are common far inland, along the course of the Rio Parana; and

^{*} The naturalists in Lutke's voyage, vol. iii. p. 255, seem to consider a gull, which they obtained at Concernion, as the Larus Franklinii of North America.

it is said they remain there during the whole year, and that they breed in the marshes. During the day they rest in flocks on the grassy plains, at some distance from the water. Being at anchor in a small vessel, in one of the deep creeks between the islands in the Parana, as the evening drew to a close, one of these scissor-beaks suddenly appeared. The water was quite still, and many little fish were rising. The bird continued for a long time to skim the surface; flying in its wild and irregular manner up and down the narrow canal, now dark with the growing night and the shadows of the overhanging trees. At Monte Video, I observed that large flocks remained during the day on the mud banks, at the head of the harbour; in the same manner as those which I observed on the grassy plains near the Parana. Every evening they took flight in a straight line seaward. From these facts, I suspect, that the Rhynchops frequently fishes by night, at which time, many of the lower animals come more abundantly to the surface than during the day. I was led by these facts to speculate on the possibility of the bill of the Rhynchops, which is so pliable, being a delicate organ of touch. But Mr. Owen, who was kind enough to examine the head of one, which I brought home in spirits, writes to me, (August 7, 1837.) that-

"The result of the dissection of the head of the Rhunchons, comparatively with that of the head of the duck, is not what you anticipated. The facial, or sensitive branches of the fifth pair of nerves, are very small; the third division in particular, is filamentary, and I have not been able to trace it beyond the soft integument at the angles of the mouth. After removing with care, the thin horny covering of the beak. I cannot perceive any trace of those pervous expansions which are so remarkable in the lamelli-rostral aquatic birds; and which in them supply the tooth-like process, and soft marginal covering of the mandibles. Nevertheless, when we remember how sensitive a hair is, through the nerve situated at its base, though without any in its substance, it would not be safe to deny altogether, a sensitive faculty in the beak of the Rhynchops."

M. Lesson (Manuel d'Ornithologie, vol. ii. p. 385.) has stated, that he has seen these birds opening the shells of the Mactræ, buried in the sandbanks on the coast of Chile. From their weak bills, with the lower mandible so much produced, their short legs and long wings, it seems very improbable that this can be a general habit, although it may sometimes be resorted to. Wilson, who was well acquainted with this bird, does not believe "the report of its frequenting oyster beds, and feeding on these fish." The existence, however, of this same report in the United States, makes the question, whether the Rhynchops does not sometimes turn the peculiar structure of its beak to this purpose, worthy of further

VIRALVA ARANEA. G. R. Gray. Sterna aranca, Wile, Am. Orn. pl. 72, f. 6.

My specimen was procured at Bahia Blanca, in Northern Patagonia. I may bere observe, that many awaignost have supposed that teras, when anet with out at sea, are a sure indication of land. But these birds seem not unfrequently to be ton in the open ocean; thus one (Megalopterus steidas) flew on board the Beagle in the Pacific, when several hundred miles from the Galapages Archipetago. No doubt, the remark made by navigators, with respect to the proximity of land where terms are seen, refers to birds in a flock, fishing or otherwise showing that they are familiar with that part of the sea. I, therefore, more particularly mention, that off the mouth of the Rio Negro, on the Patagonian shore, I awa a flock (probably the Virules areaso) fishing seventy miles from land: and off the coast of Brazil a flock of a nother species, 120 from the nearest part of the coast. The latter birds were in numbers, and were bosily engaged in dashing at their prey.

Megalopterus stolidus. Boic.

My specimens were procured from the Galapagos Archipelago. It is well known to be an inhabitant of the seas in the varmer latitudes over the whole world. The Rocks of St. Paul's, nearly under the equator, in the Atlantic ocean, were almost covered with the rude and simple nests of this bird, made with a few pieces of sea-weed. The females were sitting upon their eggs (in Pébraury), and by the side of many of their nests, parts of flying-fish were placed, I suppose, by the male bird for his partner to feed on during the labour of incubation.

PHALACROCORAX CARUNCULATUS. Stephens.
Phalacrocorax carunculatus, Steph. Gen. Zool.
Pelecanus carunculatus, Con. Syst. 1. 576.
Phalacrocorax imperialis, King, Zool. Proc. vol. i. pt. 1. 30.

I procured a specimen of this bird at Port St. Julian, on the coast of Patagonia, where, during Janaury, many were building. I merely mention it here, for the purpose of describing the singularly bright colours of the naked skin about its head. Skin round the eyes "campanal bute;" cockles at the base of the upper mandible, "saffron mixed with gamboge-yellow." Marks between the eye and the corner of the mosth, "originent orange," trust is earlier.

Fregata Aquila. Cuv. Pelecanus Aquilus, Linn.

I had an opportunity, at the Galanagos Archinelago, of watching, on several occasions, the habits of this bird, which are very interesting in relation to its peculiar structure. The Frigate bird, when it sees any object on the surface of the water, descends from a great height, in an inclined plane, head foremost, with the swiftness of an arrow; and at the instant of seizing with its long beak and outstretched neck, the floating morsel, it turns unwards, with extraordinary dexterity, by the aid of its forked tail, and long, powerful wings. It never touches the water with its wines, or even with its feet; indeed I have never heard of one having been seen on the surface of the sea; and it appears that the deeply indented web between its toes is of no more use to it, than are the shrivelled wings beneath the wing-cases of some coleopterous beetles. The Frigate bird has a noble appearance when seen soaring in a flock at a stupendous height (at which time it merits the name of the Condor of the ocean), or when many together are dashing, in complicated evolutions, but with the most admirable skill, at the same floating object. They seem to scorn to take their food quietly, for between each descent they raise themselves on high, and descend again with a swift and true aim. If the object (such as offal thrown overboard) sink more than six or eight inches beneath the surface, it is lost to the Frigate bird. I was informed at Ascension, that when the little turtles break through their shells, and run to the water's edge, these birds attend in numbers, and pick up the little animals (being thus very injurious to the turtle fishery) off the sand, in the same manner as they would from the sea.

APPENDIX.

Anatomical description of Serpophaga allocoronata, Furnarius cunicularius, Uppucerthia dunatoria, Opetiorhynchus vulgaris, O. antarcticus, O. Patagonicus, Pteroptochos Tarnii, P. aliocollis, Synallaxis maluroides, Phytotoma rura, Trochilus gigas, Tinochorus runicicurus.

BY T. C. EYTON, Esq., F.L.S., &c.

SERPOPHAGA ALBOCORONATA. Gould. (Male.)

Tongue pointed, furnished with a few short bristles at the sides near the base. Traches with the same nucles as among the warblers generally. Æspekagns slightly funnel-shaped proventiculus much expanded at its entrance into the gizzard, which is rounded, not very nuncular, inner coat slightly hardened, smooth. Intestine of moderate size, furnished with two rudimentary coaes.

inche	in in	ches
Length of asophagus, including proventriculus 1	Length of intestine from gizzard to closea	31
of gizzard	from cases to closes	3]
Breadth of ditto		

The skeleton of this bird is precisely that of the smaller and weaker species of Laniada.

lines		
Length of sternum 5	No of cervical vertebra	
Breadth anteriorly 3	dersal ditto	
posteriorly 6]	sacral ditto	
Width of flasures 1	caudal ditto	
Depth of ditto 1	Total 30	
Depth of keel 2	10011	
Length of polvis		
Width anteriorly 2	No. of false ribs	
posteriorly 54	true ditto	
Length from occiput to point of bill	Total	
Breadth of head	7008 7	
Length of coracoids		

* I am much indebted to Mr. Eyton for those observations, which greatly add to the value of the provious descriptions

FURNARIUS CUNICULARIUS. G. R. Gray. (Male.)

Tongue, trachen, and osophagus, as in Uppwerthia. Proventriculus longer, and slightly contracted at its entrunce into the gizzard, which is large, flattened, and muscular, more rounded than in Opetior/hyackus, lined with a rugose hardened coat, and fled with small seeds, and the remains of insects; intestines of small diameter, and furnished with two radimentary cores.

in the second se	schos 1		
Length of croophagus, including proventriculus	10	Length from gizzard to emca.	5
of gizzard	3	carca to cloaca	11
Breadth of ditto	1		

Steroum of nearly equal breadth, both posteriorly and anteriorly, but much narrowed in the middle, the portion to which the ribs are attached much elongated beyond their junction; posterior margin firmished with two deep fusures, slightly narrowed at their exit; keel deep, slightly rounded on its inferior edge, and much scolloped out anteriorly; pelvis broad and short, the or pubic specieting for backwards; the ischim terminating posteriorly in an accuse process.

Os furcatum thin, much arched, furnished with a flattened reflexed process at its junction with the sternum; the points of the rami bent forwards at their junction with the coracoids. Coracoids of moderate size, and lenoth, inserted decopy into the sternum; excapal of moderate size.

broader near the extremity.		, , , , , , , , , , , , , , , , , , , ,	
Length of sternum	lines 11	No. of cervical vertebras	
Breadth anteriorly	9	dorsal ditto	7
posteriorly	81	sacral ditto	10

| Departments | Signature | Signature | Departments | Signature | Signature | Departments | Signature | Signature

UPPUCERTHIA DUMETORIA. Geoff. & D'Orb. (Female.)

Tongue short, compared with the longth of the bill, pointed, armed with a few spines at the bane; traches of modernts size, seted upon by one pair of struct-metheal musels, which go off to the stremm, about 4 of an inch above the inferior layers; from the upper ring of the broachis on each side, a process proceds upwards to the point from which the muscles diverge, to which point only the rings of the traches are continued, two spaces therefore, one on the anterior, the other on the posterior side of the traches, immediately above the broachis, are left dravid of onecon matter, being bounded laterally by the process above mentioned, inferiorly by the upper rings of the broachis, and superiority by the lower rings of the traches, which is slightly unlarged; exceptages small, slightly dilated a little above the proventiculus, which is of modernes in, and not contracted before entering ingerized; giznat large, ords, very unscellar, inner cost hardened, deeply furnoved lengthatimally, and field with the remains of liver blobbed.

ind	Drin .	. 16-	
Length of ossophagus, including proventiculus	2	Breadth of ditto	å
of gizzard	1	Length of intestinal canal	ä

Length of stermum 13a	No. of corrical vertebres
Breadth anterior 4	No. of true ribe

OPETIORHYNCHUS VULGARIS, Grav. (Male.)

The structure of the soft parts, both in this species of Opetiorhynchus, and the two following ones, so closely resemble that of Furnarius and Uppucerthia, that one description will almost serve for the whole; those differences that do exist being not more than are generally found in species of the same genus; the external characters also being slight, I cannot but doubt the propriety of separating them; the caca are slightly developed in this species, measuring 1 inch in length.

of gizzard	from cases to closes
Skeleton similar in form to that of Furnarius	cunicularius.
Longils of observan	No. of crossin vertices

OPETIORHYNCHUS ANTARCTICUS. G. R. Gray. (Male.)

Structure of the soft parts as in O. ralgaris, but with the rectum of rather larger diameter, and the ry minute : gizzard filled with the remains of insects

Index	inches
Length of asophagus, including proventriculus 25	Breadth of gizzard
gizzard	Length of intestinal canal from gizzard to closes 7

Skeleton similar in form to Furnarius cunicularius, and the other species of this genus

=1	7 9
Yotal 3	9
Total	8.

OPETIORHYNCHUS PATAGONICUS. G. R. Grav. (Male.)

No difference in the structure of the soft parts from the other species of the genus before spoken of

	the ordinary simple form found in most birds, bu having the lower rings continued to the bronchia seca are apparent.
Length of orsophagus, including preventriculus 25 gizzard	Breadth of gizzard
Skeleton in form similar to that of Fart this genus.	narius cunicularius, and the other species of
less	
Length of sternum	No. of cervical vertebrus
Breadth anteriorly	derail ditto 7
posteriorly	sacral ditto 9
Depth of keel 5	caudal ditto 6
fisecret 4	Total 33
Breadth of ditto 1	-
Length of pelvis	
Breadth anteriorly 5	No. of true ribs
posteriorly	false ditto 2·1
Length from occiput to point of bill 19	Total 8
Breadth of cranium 8	

Remarks:-the last five species approach so nearly, that I doubt the propriety of separating them generically. The skeletons are only distinguishable with the exception of the form of the bill, by the proportions between the different admeasurements.

PTEROPTOCHOS TARNII. G. R. Gray. (Female.)

Tongue pointed, armed with two strong lateral spines, and a few intermediate smaller ones at the base; ersophagus largest at the upper extremity, and gradually becoming smaller towards the proventriculus; no vestige of a craw; proventriculus of moderate size, not much contracted towards the gizzard, which is also of moderate size, and much flattened; not very muscular, and lined with a hardened coat, rugose longitudinally; the gizzard was filled with small pebbles, and a coarse black powder, probably the runnins of insects; intestinal canal small; eaca rudimental; rectum large, becoming more expanded towards the cloacs, which is also large; traches of equal diameter throughout, furnished with one pair of stemo-tracheal muscles, a portion of each of which is continued downwards to the upper rings of the bronchine, on which it exemulate: liver two-lobed.

***************************************	Inches	inches
Length of osophagus, including proventriculus		Diameter of gizzard
of meeting canal, from grzzari to couch		Longita of datas

The perior and rike of this livid were much damaged; storams of equal breadth posteriorly and austratively, slightly contracted on its lateral exple, near the middle inducted on its posterior manys with four deep feasures, the outer one largest; a large triangular process projecting forwards between the junction of the concoids, bild at the aper; the correction themselves very strongly articulated to the storams, the sides of the storams to which the rike are articulated projecting in the form of a process for beyond the junction of the concoids; the storam local is marrow, and has its edge straight; the concoids are long, thin, with very slight external lateral processes at their junction with the storam; or for terms were fluid, a very slight process on the point at which it approaches nearest to the storams, very slightly process.

Scapula broad, flattened, much widened at about one-third of its length from the hinder extremity;
wine bones short, and weak: leg bones long, and strong; the fibula much developed.

	lines		23
ength of sternam	15	Length from occiput to point of bill	
reatest breadth of sternum	56	Breadth of cranism	2
readth at the narrowest part	7	Length of corneoids	
fidth of external flavare	11	Breadth of scapula in the broadest part	
septh of ditto	6	Cervical vertebra	
fidth of internal ditto	11	Dorsal ditto 6	
lepth of ditto	es.	Sacral, damaged.	
and officed		Condal demand	

PTEROTOCHOS ALBICOLLIS. Kittl. (Male.)

Trachea, tongue, osophagus, gizzard, and liver of the same form as in Pterotochos Tarnii. The contents of the vizzard also did not differ.

	Inches		inch
ength of intestinal canal	14]	Length of gizzard	
from essea to closea	21	Breadth of ditte	. 1

Only the body, after skinning, of the species, was brought home by Mr. Darwin.

The skeleton of this species does not differ in anything but admeasurements from that of

Pterotoclos Tarsii; the pelvis, however, being so much damaged in that species, that I was not
able to make many notes upon it, I shall give a description of that part in the present one.

Pelvis of moderate size; the ossa pubis and ischium much expanded, and elongated posteriorly, and placed nearly perpendicular to the plane of the ilium, ischiatic foramina large; two large processes arise on the ilium on each side of the junction of the caudal vertebra for the attachment of the levator muscles of the tail.

Length of politis	8§ 4 6§ 7	No. of cervical vertebra, wanting. donal ditts, wanting. sucral ditto could ditto, wanting.	
Depth of keel Length of coracoids Breadth of scapala in the widest part	2)		

Remarks:—Both this and the foregoing bird are most curious; it is difficult to say in what order they ought to be placed, the external form being equally ambiguous with the internal structure.

The digestive organs nearly agree with that of many insusorial brids; the pelvis also approaches nearly in form to that of the threaly, the stermun, however, diffies altogether from any form found in that order, and is precisely that of a Picus. The coracoids are lengthened; the ox furcatum is furnished with only a slight process where it approaches the sternum, in which particulars, also in the form of the 1/hs; it agrees with the Picidae.

Having found the internal structure so curious, and so contray to what I expected, I was the to examine the certain more mixed by the I had before door. The same from of clar is found in several species among the evclose, in the genus Polsphilin, for instance; the two outer test expected, by forguinted together as for as the first joint; the bill, at first sight, might be taken for that of a pallianeous bird; but in searching among the order Sonanera, for some resumbance, I faint the same retructure in several of the exclose family, with the exception of the northic being mearer to the apex of the bill in Partentoless. The Australian genus Messeu is, probably, allied to this, but differs in the structure of the northic.

SYNALLAXIS MALUROIDES. D'Orb. (Female.)

Tongue pointed, furnished at the base with two strong spines, the sides of which are armed with smaller ones; trachen, onesphagus, and proventriculus as in Farnarius and Uppucertisis; gizzard rounded, not very muscular, lined with a slightly hardened smooth coat, and filled with the remains of insects; intestinal canal of moderate size and length, furnished with two rudimentary cases.

	inches	. 1	
ength of cesophagus and proventriculus	11	Length of intestinal canal from gizzard to cloaca	42
girard	1	from carca to closes	1

The parts of the skeleton of this bird which it was able to preserve, were more clearly allied to the corresponding ones of Troglodytes than to those of any other genus in py possession, but differ in the following particulars: the lateral processes of the sternum bounding the posterior fisurers are not so much expanded, consequently the fisurers themselves are smaller; the keel is rather desper; the portion to which the rale are attached does not project so far forwards, but the

• Since the above was in type, I have had, through the kindness of Mr. Genild, an opportunity of examining Mesure lyre, and find my former supposition to be correct; but nother of these geners can be placed among the gallinaceous bleds where the later bled has been arranged by some authors.

process between the concoids is rather longer; the interocular portion of the cranium is also rather broader than in the above-mentioned genus; the pelvis, coracoids, and scapula agree both in share and size with Two-tolettes.

The state of the s	Mars 1		line
Lenth of sternum	. 6	Breadth of cranism	. 5
Breadth anteriorly	. 4	Length of pelvis	- 9
posteriorly	- 41	Breadth of ditto posteriorly	5
Greatest width of flasures	. 1	anteriorly	1
Depth of ditto			
Length of occipat to point of bill	14]	No. of cervical vertebras	

PHYTOTOMA RARA. Molina.

This bird being Injured about the sexual organs, I could not ascertain the sex. Tongue pointed, armed at the base on each die with a flattened tricouply dispic; traches amul, of uniform diameter throughout its whole length, seted upon by one pair of stemo-trachest numeler; anosphagus financh-shaped at the upper extremity, when distorted capable of containing a common pencil, at its junction with the proventicules unde multiple preceptible; girant small, considing of little more than a thick skip, inner contained the entrance of the enophagus, and the exist of the intestine placed very near together at the upper extremity of it; justicular calcular vay short, and of large dimenter, entityle decid of exact; the whole length with the ginzed and enophagus distorded with a stringy substance, remembling coarse spon toxtone on the short lengths.

	oches ,		Inches
Length of osophagus, including proventriculus	3	Length of gizzard	1
of latestinal canal	7)	Breadth of ditto	1
Sternum of nearly equal breadth, both poste			

posterie magin nearly straight, inducted with two large features, narrowed at their cat; I between the junctions of the censoids framished with a bild precoss the portion of the stermus to which the ribs are attached, continued anteriorly beyond the junction of the stermus to which the ribs are attached, continued anteriorly beyond the junction of the stermus to which the ribs of moderate size; conceids long, not very strong; or furstant long, alightly arched, furnished with a flattened process, turned inwards at the point it approaches the stermus.

Pelvis broad, and short, narrowest anteriorly, the os pubis and ischium continued far backwards, beyond the junction of the caudal vertebru; ribs strong, and flattened; posterior process large; scapula long, broadest near the extremity; legs of moderate strength, the internal processes of the tibia large, and flattened; bones of the cranium strong.

Transition of the state of the	
Length of sternum	No. of cervical vertebras
Breadth asteriorly 65	dorsal ditto
posteriorly	sacral ditto
Width of flasures 12	caudal ditto
Depth of ditto 4	Total
keel	10141 35
Length of pelvis 134	1 2 1 2 2 2 2 2 2 2 1 2 2 2 2 2 2 2 2 2
Width anteriorly 5	No, of true ribs
posteriorly 11	false ribs 21
Length from occiput to point of bill 16	Total 8
Breadth of head 8	Total 8
Length of coracolds 9	
	x

Remarks:—The skeleton and soft parts of this bird very nearly resemble those of the genus Levis, but differ in their superor sine, in having the fissures on the posterior margin of the stermum not so deep and in the margin intelf being straighter, the conceidd larger, and in hard process at the end of the os furcatum approaching the sternum smaller than in that genus. The rich also are stronger.

TROCHILUS GIGAS. Vieill. (Male.)

Tongue bild, each dirásino pointed; hyuids very long, in their position assembling, those in the Picidie; traches of uniform dismeter; doubties of muscles of voice; hencids very long; encephagus finnel-shaped, slightly contracted on approaching the preventionins, which is small, and scarcely perceptalic; giarned small, moderately nearcher, the inner cost slightly hardened, and filled with the remains of insects; intestine largest near the gizzned; 1, could not necessive a vestion of occus.

The second secon	bobis			
Length of asophagus, including proventriculus	11	1	Length of gizzard	- 1
intestinal canal	ୠ	I.	Breadth of ditto	- 1
intestinal canal	21	I.	Breadth of ditto	1

Sternum with the keel very deep, its edge rounded, and projecting anteriorly; posterior margin rounded, and destitute of indentation or fissure; the ridges to which the pectoral muscles have their attachment, large and prominent, the horizontal portion much narrowed anteriorly, consequently the junctions of the coracoids are very near together.

Peirs short, very broid; on pulse long, curved upwards at the extermities, projecting far downwards, and potentied by beyond the termination of the caudal verelency the inclusion fearms small, and linear; femora placed far backwards; cornected short, very strong, their extremities much diverging; or furntants book, slightly arised near the extremities of the main, which are far part, furnished with only a small process on its approach to the stermm; sepuids fittened, long, brondest near the extensity; busners, nellius, and that short, the ententage and longer than other; the former famished with ridges much elevated for the statement of pertoral masseries; candial and domas weathers with the masseries and the continuous problems one, and expertoral masseries; candial and domas weathers with the masseries problems one, and expertoral masseries; candial and domas weathers with the masseries problems one, and expertoral masseries; candial and domas weathers with the masseries of the state of the past over the vertex, and in which the lyquids larg orbits large, divided by a complete long sectors: the lackwards boson large, cauding one expension of the bill more the ordinal business.

Length of sternum 130; 130; 130; 130; 130; 130; 140; 1	No. of cervical vertebras 10 doesal ditto 0 sacral ditto 9 condal ditto 5
Length of pelvis	Total 30
Width anteriorly 2j posteriorly 7	
Length from occiput to point of hill	No. of true ribs
Brendth of eranium 65	false ditto
Length of coracoids 6	Total 9

Remarks:—The skeleton of this bird does not differ in form from that of *Treckiles pella*, figured at gaze 270 of the Cyclopedia of Anatomy and Physiology. The whole of the group are more nearly allied to fissirouthal birds than any other.

TINOCHORUS RUMICIVORUS. Eschsch. (Male.)

Traches or uniform dismeter, femiled with one pair of stemo-trached massles, from which a few filters descend on onch side to the upper rings of the beneficial; conclusion of large dismeter to about half its length, where it is femiled with a craw, and afterwards contracted to the provestriessity; for care where it is connected with the conclusion since contracted, where words it expands into a large are; proventriculus small; gizared large, and very numeral; we would it expands into a large are; proventriculus small; gizared large, and very numeral; which is concerned to the concerned of the conclusion of the concerned of the

Length of osophagus from glottle to gizznet 3 lack from osophagus to outer extremity of craw 4 lack Perpendicular diameter of craw	ch. Length of intestine from gizzard to cloaba	200
--	--	-----

A second specimen, a female, did not differ, except in sex. Skeleton light; bones in general thin.

Stermun broadest posteriority, and indented on its posterior margin with two large fissures; keel
deep, its inferior edge rounded, much scolloped out anteriorly: a moderate-size bidlif manubrial.

process between the junction of the coracoids.

Pelvis broad, of moderate length, similar to that found among the genus Stressilas.

Os furcatum much arched, furnished with a small flattened process, where the ligament unites it to the sternum; concoid of moderate length, strong, furnished with a large process externally near their junction with the sternum; ribs flattened, posterior process long, slightly curved,

	Nors-	
Length of sternum	16	No. of cervical vert
Brealth anteriorly	7	dereal
posteriorly	11	sacral
Width of fissures	4	caudal
Depth of ditto	6	
keel	7	
Length of polvis	16]	
Width anteriorly	6	No. of true sibs
posteriorly	12	false ditto
Length from occiput to point of hill		
Brendth of head	6j	
Length of coracolds	7]	

sacral		
enudal		
	Total	 i
true sil	bs	
false di	Ma	

Remarks. The bill of this curious bird much resrobbet that of the groun Gloreste, but the soft dain counties the most being medically only in the state of the ground Gloreste, but the gallianceous birds. The structure of the tensi, first, and units approach near to bat the of Stropalies, but differ in the latter being absurpe, and in the scale on the feet and trail being more apparent, which may glotted, have been caused to a certain degree by the bird having been for a long which in anticipation, have been caused to a certain degree by the bird having been for a long which is notificated. The wing has precisely the same structure as in Glarcola, and some of the plovers.

The tail is more lengthened than among the plovers, but not more so than in Glarcola praticola, which species has, however, the tail forked, but some of the same genus, as the last named bird, although it is not so long in them, have it in the same shape as in Tinochorus,—as Glarcola Australia.

The structure of the digastic organ is altogether that of a galinacous held, the shelton, however, agrees scarcely in any particular with that other, appeaching closely to that of the waders. The steram differs from any galinacous held with which I am acquainted, in wanting entirely the strong lenteral process, and in the features on the posterior margin being much smaller; the nearest appeach in form which I have been able to find, is that of Machete, from which, if it were not for the supprice size of the latter, it could searcely be distinguished.

The pelvis agrees so perfectly with that of Strepsilas interpres, and the Charadriida in general, is not to require farther remark.

The remainder of the skeleton resembles both the plovers and sandpipers.

I much regret that I have never had an opportunity of dissecting a specimen of Glareolo, to which the genus, Tinoclorus, appears closely allied, and I believe that they will form a connecting link between the orders Grallatores and Razores.

N.B. The Synonyms are in Italies.

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