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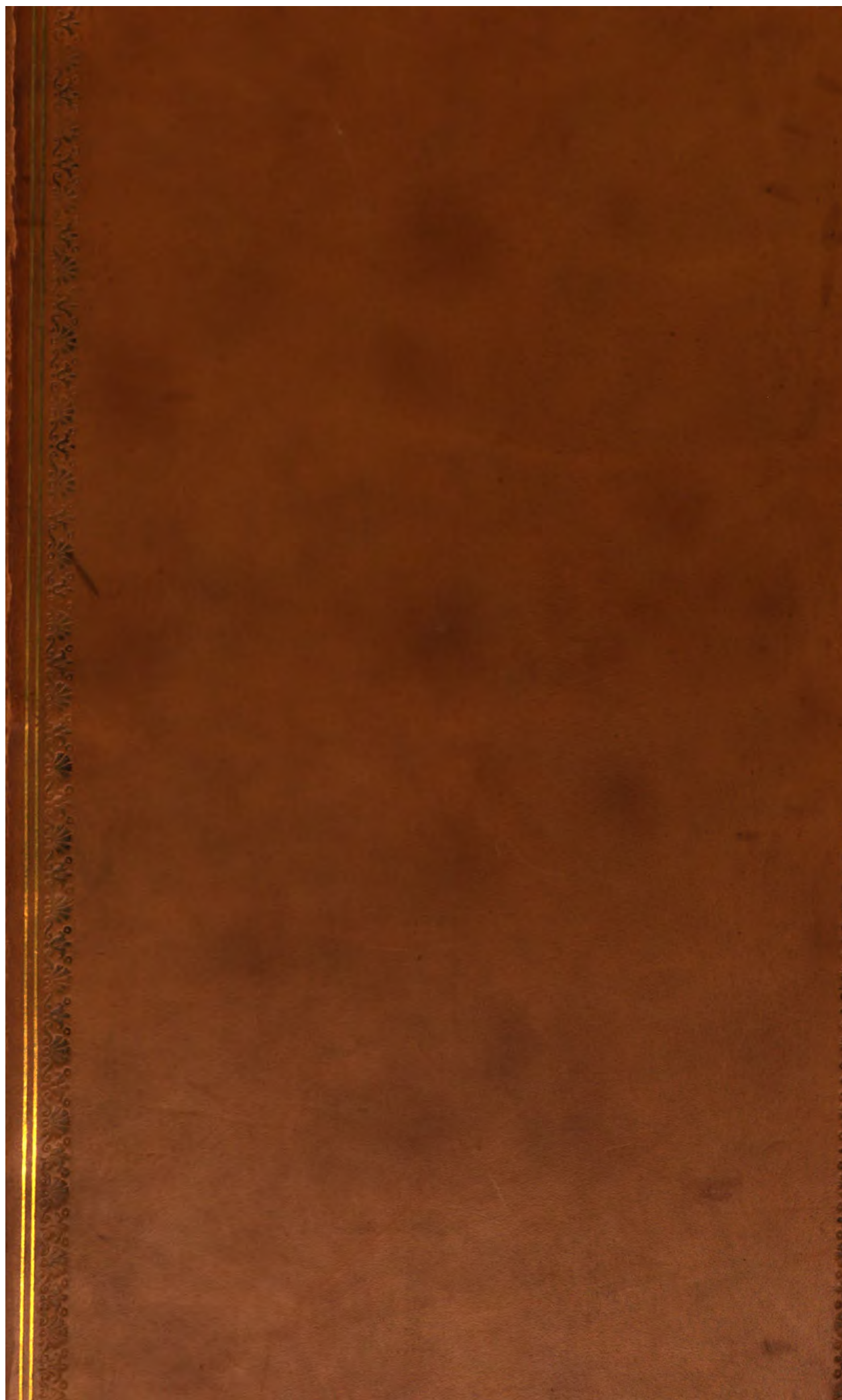
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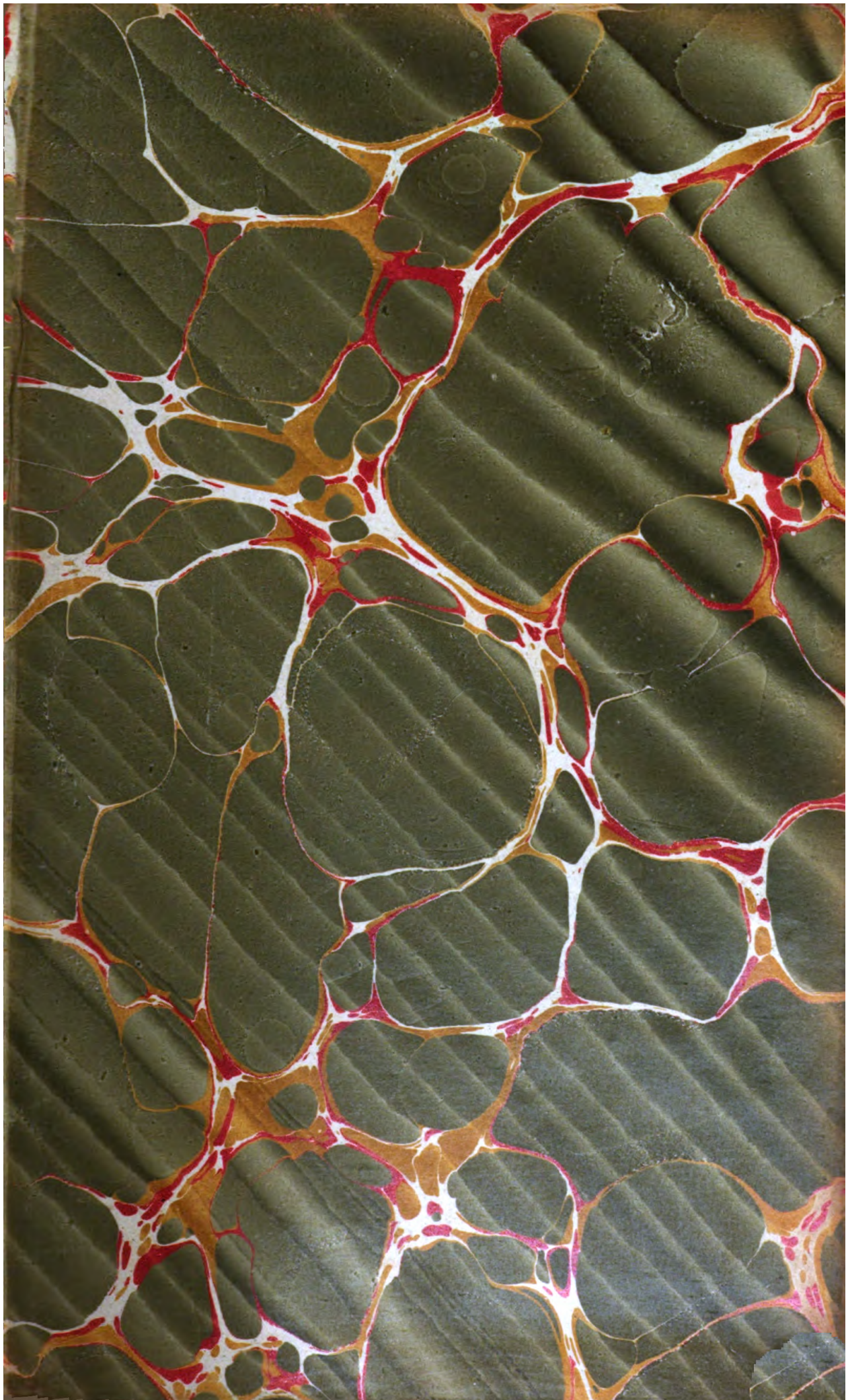
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TO
THE REV. ROBERT NARES,

F. R. AND F. A. S.

ARCHDEACON OF STAFFORD,
CANON RESIDENTIARY OF LICHFIELD,

&c. &c. &c.

THIS TWENTY-THIRD VOLUME

OF THE

NATURALIST'S MISCELLANY

IS INSCRIBED,

AS A TESTIMONY OF FRIENDSHIP,

BY

GEORGE SHAW,
E. NODDER.

VIRO REVERENDO ET ERUDITO

ROBERTO NARES,

UTRIUSQUE SOCIETATIS

TAM REGIÆ QUAM ANTIQUARIÆ

SOCIO, &c. &c. &c.

HUNC

VICESIMUM TERTIUM

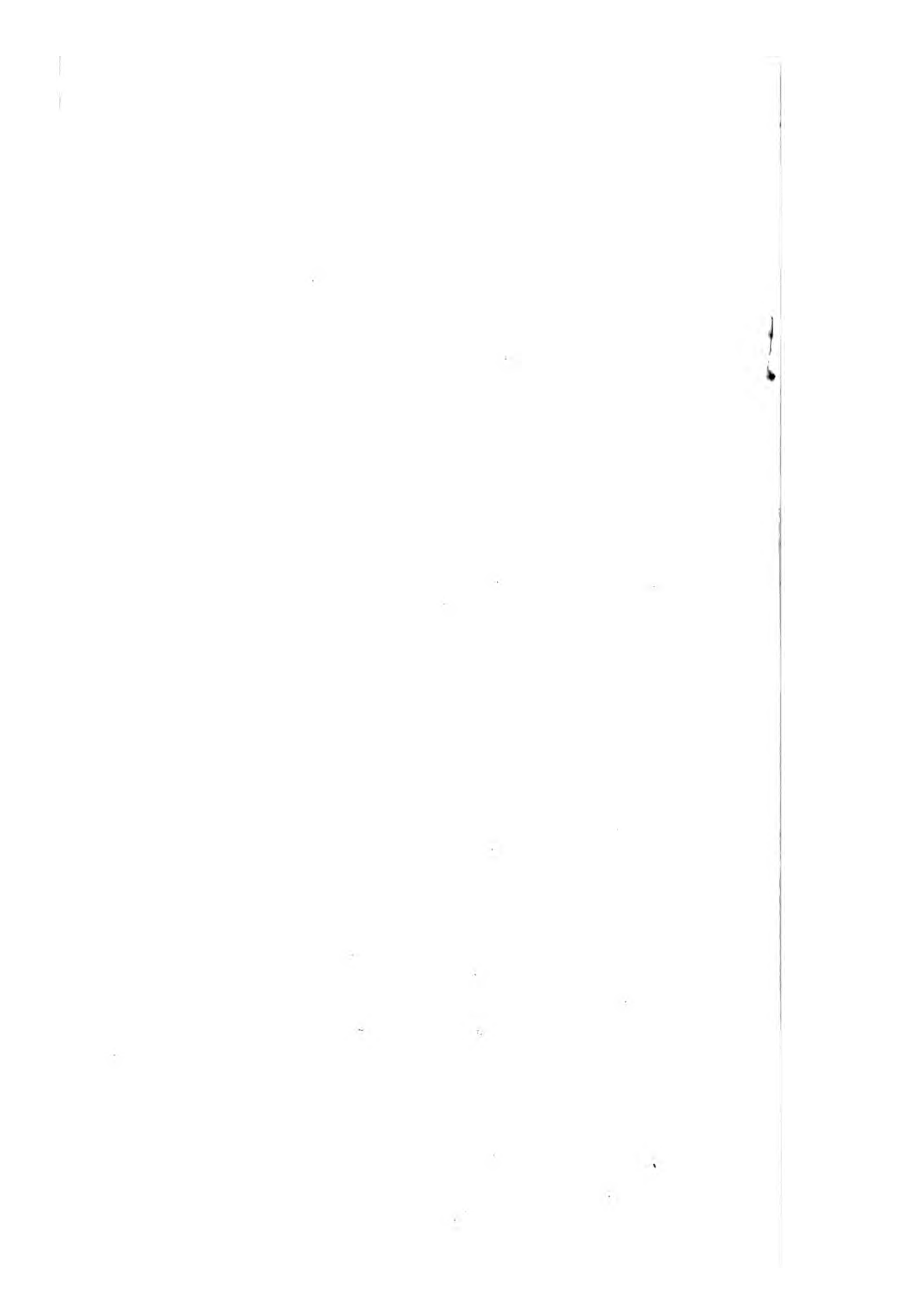
NATURÆ VIVARIÏ

FASCICULUM

D. D. D.

GEORGIUS SHAW,

E. NODDER.



MOTACILLA DIOPHRYS.

CHARACTER GENERICUS.

Rostrum subulatum, rectum; mandibulis subæqualibus.

Nares obovatæ.

Lingua lacero-emarginata.

Lin. Syst. Nat.

CHARACTER SPECIFICUS, &c.

Motacilla ferrugineo-fusca subtus alba, cauda cuneata, stria supra infraque oculos nigra.

Le Double-Sourcil.

Levaill. Av. Afr. t. 128.

Hujus avis ostendit tabula veram et naturalem magnitudinem. Generant eam partes Africæ interiores. Femina caret striis oculariis nigris.

THE
DOUBLE-STREAKED WARBLER.

GENERIC CHARACTER.

Bill subulate, strait; mandibles nearly equal.

Nostrils nearly oval.

Tongue jagged or lacerated towards the tip.

SPECIFIC CHARACTER, &c.

Ferruginous-brown Warbler, white beneath,
with cuneated tail, and black stripe above
and below the eyes.

Le Double-Sourcil.

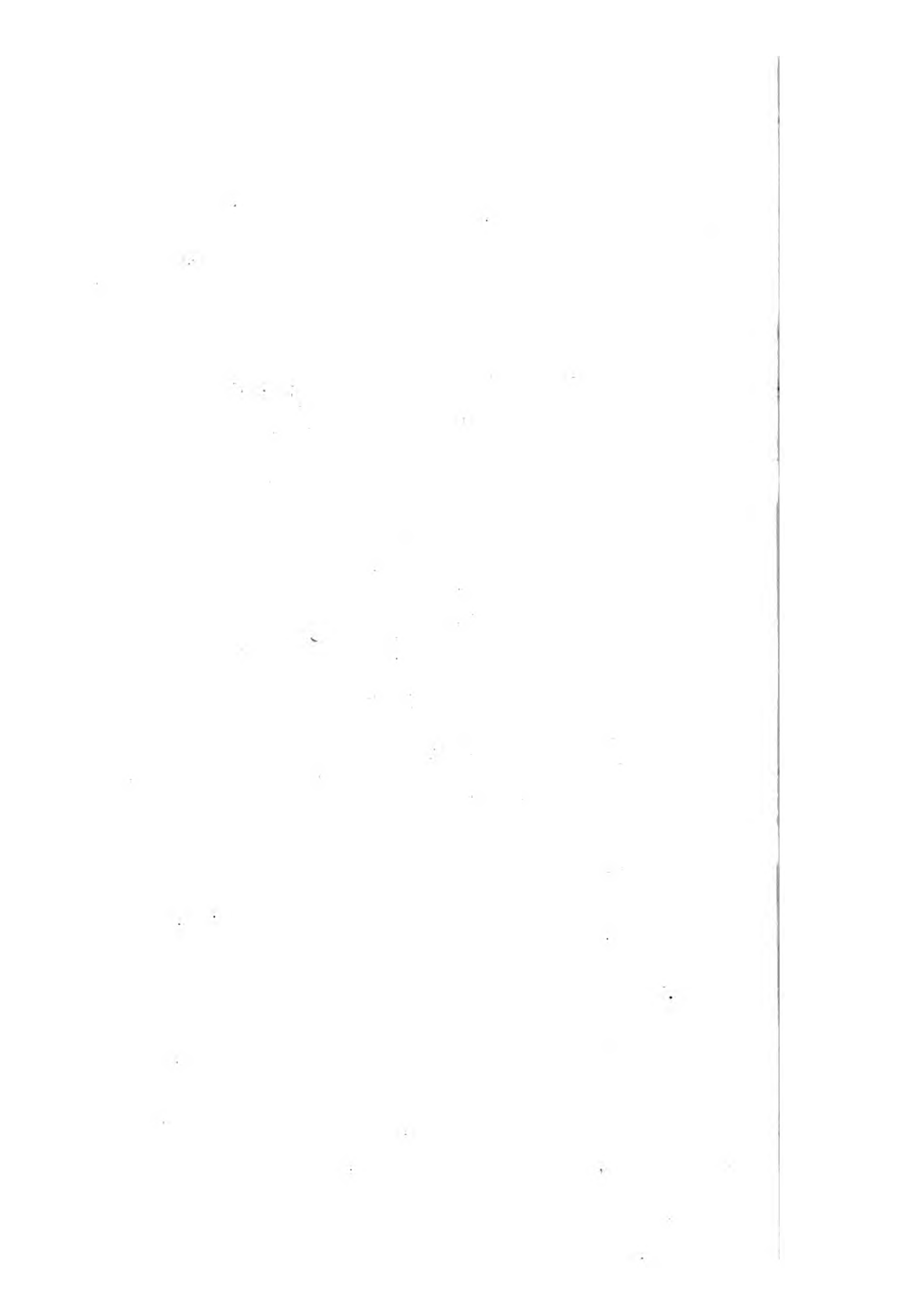
Levaill. Ois. Afr. pl. 128.

This bird is represented on the plate in its natural size. It is an inhabitant of the interior parts of Africa. The female is distinguished by the want of the black eye-stripes.

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R. P. Weller Del. Sculp.



SCARABÆUS MICANS.

CHARACTER GENERICUS.

Antennæ clavatæ, capitulo fissili.

Tibiæ anticæ sæpius dentatæ.

Lin. Syst. Nat.

CHARACTER SPECIFICUS, &c.

Scarabæus viridissimus, nitens, capite subquadrato, cornu frontali bifurco fusco.

Cetonia micans. *C. viridis* nitens, clypeo porrecto recurvo bifido, tibiis anticis serratis.

Fabr. spec. ins. p. 50.

Africana est hæc *Scarabæi* species, et magnitudine vera in tabula depingitur.

THE
SHINING BEETLE.

GENERIC CHARACTER.

Antennæ divided at the tip or head into several lamellæ.

Tibiæ (or second joints of the fore legs) generally toothed.

SPECIFIC CHARACTER, &c.

Shining grass-green Beetle, with squarish head, and brown forked frontal horn.

La Cetoine eclatante.

Oliv. Coleopt.

Drury ins. 2. pl. 32. f. 3.

The present species of Beetle is a native of Africa, and is represented in its natural size.



SPARUS JUBA.

CHARACTER GENERICUS.

Dentes validi: *primores* ordine simplici, duplici, triplici, vel quadruplici dispositi.

Molares (plerisque) validi, convexi, læves, in series dispositi, et quasi pavementum in ore efformantes.

Labia crassa: Opercula mutica, squamosa.

CHARACTER SPECIFICUS, &c.

Sparus Juba. S. argenteus, dorso violaceo, pinis flavo luteoque variatis, cauda bimaculata.

Gen. Zool. 4. p. 431.

Perca Juba. P. maculis duabus brunneis in pinna caudali.

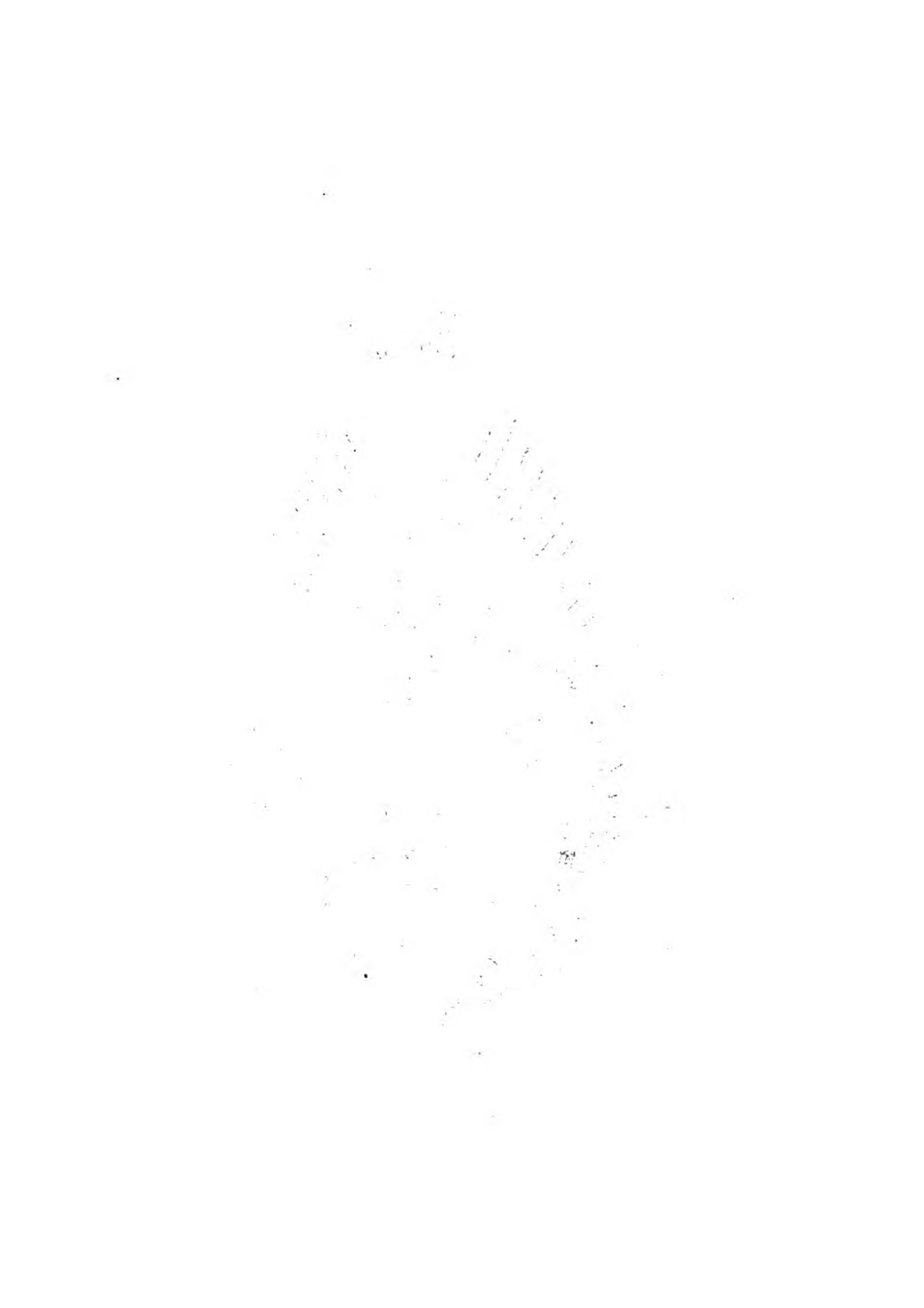
Bloch. ichth. 9. t. 311. f. 1.

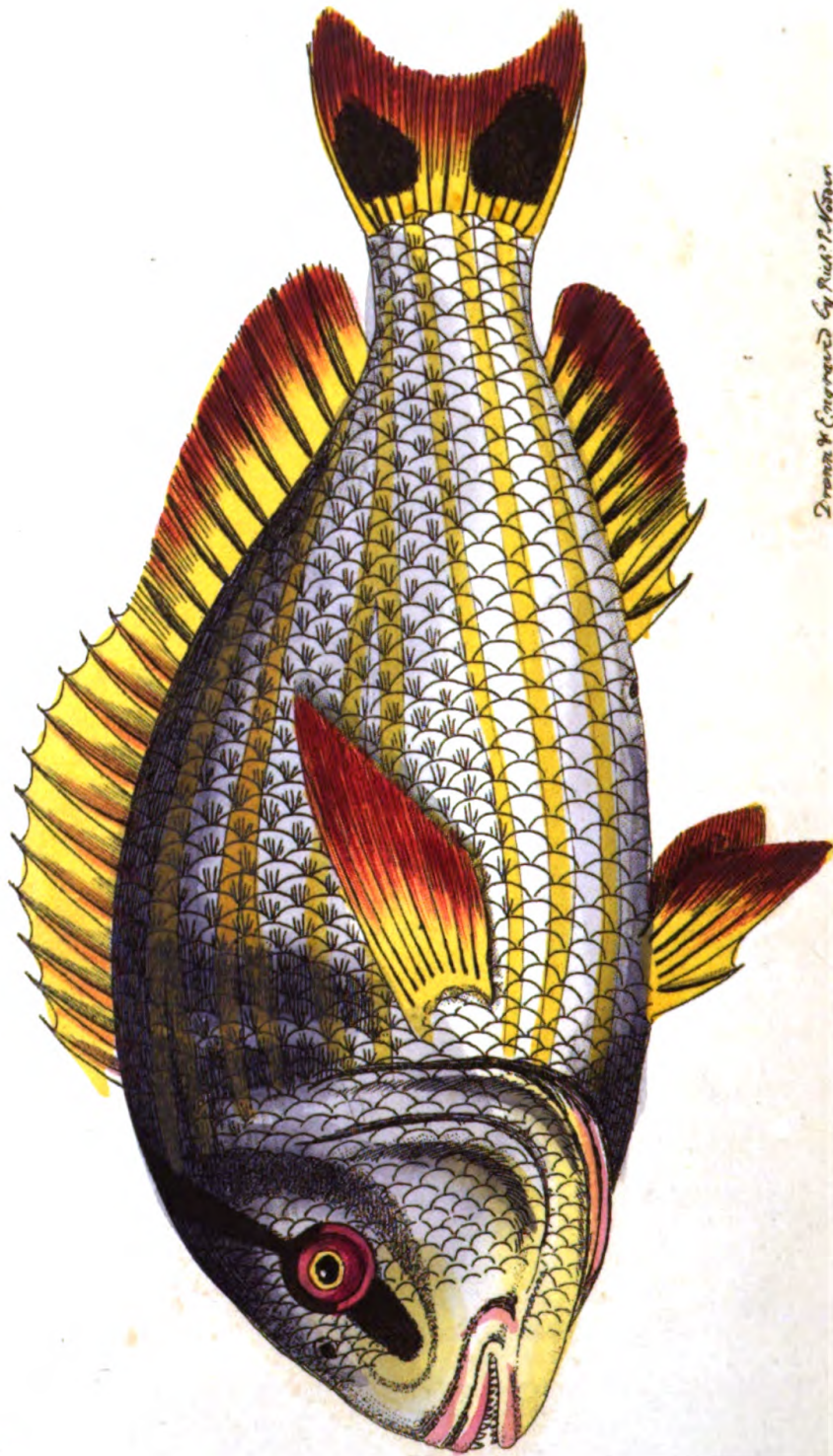
Guatucupa Juba.

Marcgr. Bras.

Will. ichth.

Maria incolit Americana Sparus Juba, in bipedalem crescens longitudinem.





THE

JUBA SPARUS.

GENERIC CHARACTER.

Teeth strong: *front-teeth* in some species disposed in a single row, in others in a double, treble, or quadruple row.

Grinders (in most species) convex, smooth, and disposed in ranges, forming a kind of pavement in the mouth.

Lips thick : *Gill-Covers* unarmed, smooth, scaly.

SPECIFIC CHARACTER, &c.

Silvery Sparus, with violet back, fins varied with yellow and orange, and tail marked by two spots.

Juba Sparus.

Gen. Zool. 4. p. 431.

Guatucupa Juba.

Marcgr. Jonst. Will. &c.

The Sparus Juba is an inhabitant of the American seas, growing to the length of about two feet.

CONUS GLORIA MARIS.

CHARACTER GENERICUS.

Animal Limax.

Testa univalvis, convoluta, turbinata.

Apertura effusa, longitudinalis, linearis, edentula, basi integra.

Columella lævis.

CHARACTER SPECIFICUS, &c.

Conus subelongatus subcylindricus albidus, fusco minutim reticulatus, fasciis transversis fusco-luteis.

Conus Gloria maris. *C. elongatus*, cylindrico-conicus, albus, aurantio-fasciatus, maculis albis trigonis subtilissimis fusco cinctis ad apicem usque reticulatus; spiræ concavo-acuminatæ anfractibus superioribus nodulosis.

Lamarck Ann M. Hist. Nat. 15.

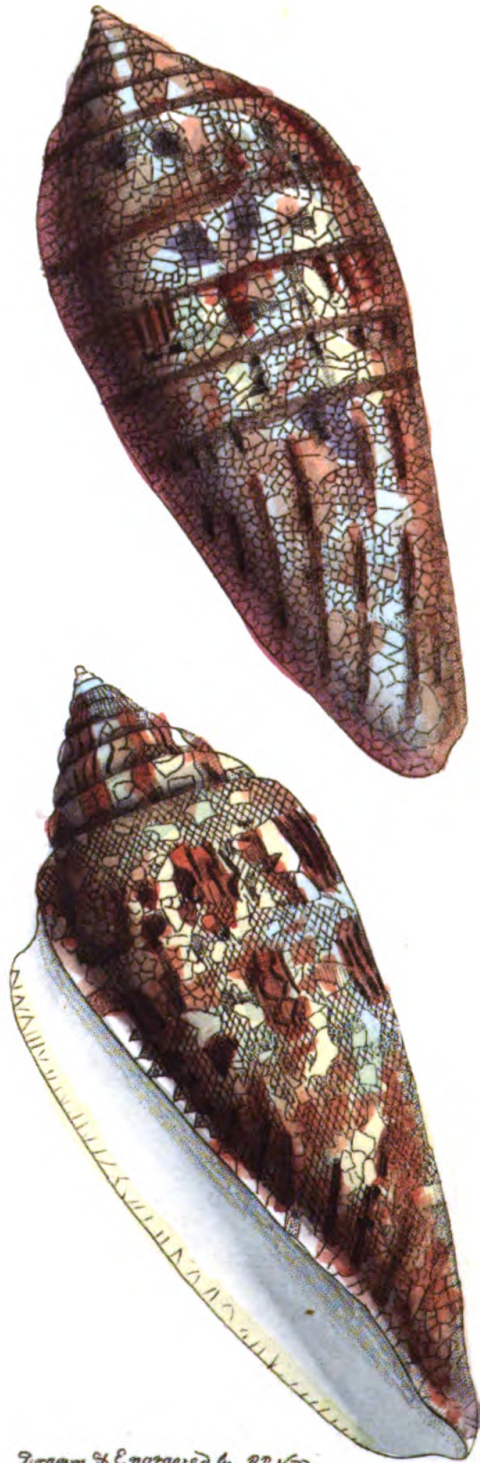
p. 438.

Gloria maris, testa cylindrica, &c. &c. &c.

Chemn. 10. p. 73. t. 143. f. 1324.

1325.

In rarissimis et pretiosissimis totius generis merito habetur conus cujus veram magnitudinem ostendit tabula. In maribus generatur Americæ australi adjacentibus.



Drawn & Engraved by R.P. Wood.

THE
NONPAREIL CONE.

GENERIC CHARACTER.

Animal resembling a Limax or Slug.

Shell more or less conic or pyramidal.

Aperture longitudinal, linear, without teeth, entire at the base.

Pillar smooth.

SPECIFIC CHARACTER, &c.

Subelongated, subcylindric, whitish Cone, with minute brown reticulations, and transverse orange-brown bands.

Gloria maris.

Chemn. 10. pl. 143. f. 1344.
1345.

Lamarck. Ann. M. Hist. Nat.
15. p. 438.

Bruguiere Encycl. pl. 347. f. 7.

This highly beautiful shell, which may be considered as one of the rarest and most valuable of the genus *Conus*, is a native of the South-American seas, and is represented on the plate in its natural size.

TROCHILUS AURITUS.

CHARACTER GENERICUS.

Rostrum capite longius, subulato-filiforme, apice subincrassato tubuloso: mandibula superior vaginans inferiorem.

Lingua filiformis, filis duobus coalitis tubulosa.

Pedes graciles, breviusculi, ambulatorii.

Cauda pennis decem.

CHARACTER SPECIFICUS, &c.

Trochilus rectirostris viridi-aureus, subtus albus, aurium pennis subelongatis violaceis, remigibus nigris, rectricibus lateralibus albis.

Trochilus auritus.

Lath. ind. orn.

Cayanam incolit elegans hæc avis, et magnitudine vera in tabula depingitur.



THE
VIOLET-EARED HUMMING-BIRD.

GENERIC CHARACTER.

Bill longer than the head, cylindrical, slender, with slightly-thickened tip; the upper mandible sheathing the lower.

Tongue filiform, extensile, consisting of two conjoined slips forming a tube.

Legs slender, rather short: feet formed for walking.

Tail consisting of ten feathers.

SPECIFIC CHARACTER, &c.

Strait-Billed gold-green Humming-Bird, white beneath, with slightly elongated violaceous ear-feathers, black wings, and white lateral tail-feathers.

Oiseau-mouche à oreilles.

Buff. ois.

Viell. pl. 25. 26.

Violet-Eared Humming-Bird.

Lath. syn.

This elegant species is a native of Cayenne, and is represented on the plate in its natural size.

OSTREA ISLANDICA

CHARACTER GENERICUS.

Animal Tethys.

Testa bivalvis, inæqualvis, subaurita.

Cardo edentulus, fossula cava ovata striisque lateralibus transversis.

CHARACTER SPECIFICUS, &c.

Ostrea testa orbiculari subflava vel rubea, fasciis transversis purpureis, auriculis inæqualibus, radiis numerosis.

Ostrea Islandica. O. testa orbiculari, circulis purpureis, radiis centum.

Lin. Syst. Nat. Gmel. p. 3326.

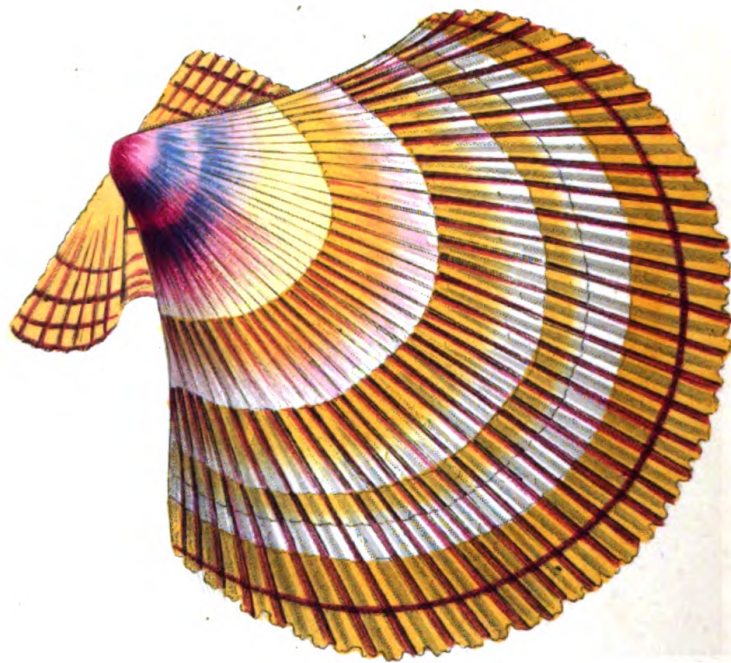
Pecten testa suborbiculari aurita, radiis planoconvexis sulcatis numerosis, alternis minoribus integris, interne crocea.

Fabr. Faun. Groenl. p. 415.

No. 416.

In maribus arcticis præcipue reperitur *Ostrea Islandica*, coloribus non raro varians, *Ostrea maxima*, ut plurimum, paulo minor.





3V-

THE
ICELANDIC SCALLOP.

GENERIC CHARACTER.

Animal allied to a Tethys.

Shell bivalve ; valves unequal, subauriculated.

Hinge toothless, with an ovate fossule and transverse lateral streaks.

SPECIFIC CHARACTER, &c.

Scallop with orbicular yellowish or reddish shell, with transverse purple bands, unequal ears, and numerous rays.

Seb. mus. 3. pl. 87. f. 7.

Knorr Vergn. 1. pl. 4. f. 1. and pl. 5. f. 2.

Lister, pl. 1057. f. 4.?

Gualt. test. pl. 73. R.

The Icelandic Scallop is principally found in the northern seas, often varying considerably in colour : its size is somewhat inferior to that of the common Scallop.

SPARUS CHLOROPTERUS.

CHARACTER GENERICUS.

Dentes validi: *primores* ordine simplici, duplici, triplici, vel quadruplici dispositi.

Molares (plerisque) validi, convexi, læves, in series dispositi, et quasi pavementum in ore efformantes.

Labia crassa; *opercula* mutica, squamosa.

CHARACTER SPECIFICUS, &c.

Sparus viridis, abdomine subflavente, capite fusco cæruleo-lineato.

Gen. Zool. 4. p. 451.

Labrus chloropterus. L. dentibus duobus caninis in utraque maxilla, aculeis duobus in pinna ani.

Bloch ichth. 8. t. 288.

Maria Indica incolit Sparus chloropterus, a Blochio primum descriptus. In pedalem crescit longitudinem.



616

R.P. Hooper Dal. Singap.

THE
GREEN-FINNED SPARUS.

GENERIC CHARACTER.

Teeth strong: *front-teeth* in some species disposed in a single row, in others in a double, treble, or quadruple row.

Grinders (in most species) convex, smooth, and disposed in ranges, forming a kind of pavement in the mouth.

Lips thick: *Gill-Covers* unarmed, scaly.

SPECIFIC CHARACTER, &c.

Green Sparus, with yellowish abdomen, and brown head striped with blue.

Green-Finned Sparus.

Gen. Zool. 4. p. 451.

Der Grünflosser.

Bloch ichth. pl. 288.

The Green-Finned Sparus is an inhabitant of the Indian seas, and seems to have been first described by Dr. Bloch. It grows to the length of about twelve inches.

SPHINX CRANTOR.

CHARACTER GENERICUS.

Antennæ subprismaticæ, utroque fine attenuatæ.

Lingua exserta (plerisque).

Palpi duo reflexi.

Alæ deflexæ.

Lin. Syst. Nat. Gmel.

CHARACTER SPECIFICUS, &c.

Sphinx alis fuscis atro maculatis, posterioribus
rubris margine atro.

Lin. Syst. Nat. Gmel. p. 2380.

Fabr. spec. ins. 2. p. 151.

Cramer, t. 104. f. A.

Indiam incolit Sphinx Crantor, cujus veram magnitudinem ostendit tabula.





980



R. P. Moore Del. Sculp.

CRANTOR.

GENERIC CHARACTER.

Antennæ subprismatic, attenuated at each end.

Tongue (in most species) exerted.

Feelers two, reflex.

Wings deflected.

SPECIFIC CHARACTER, &c.

Sphinx with brown upper wings spotted with black, and red lower wings bordered with black.

Sphinx Crantor.

Cramer, pl. 104. f. A.

The Sphinx here figured is an inhabitant of India, and is represented in its natural size.

PROMEROPS SUPERBUS.

CHARACTER GENERICUS.

Rostrum Upupæ.

Pedes ambulatorii.

Cauda elongata, plerisque cuneata.

Gen. Zool. 8. p. 142.

CHARACTER SPECIFICUS, &c.

Promerops niger violaceo viridique nitens, penis scapularibus falcatis aureo-nitentibus, cauda longissima.

Gen. Zool. 8. p. 145.

Upupa superba.

Lath. ind. orn.

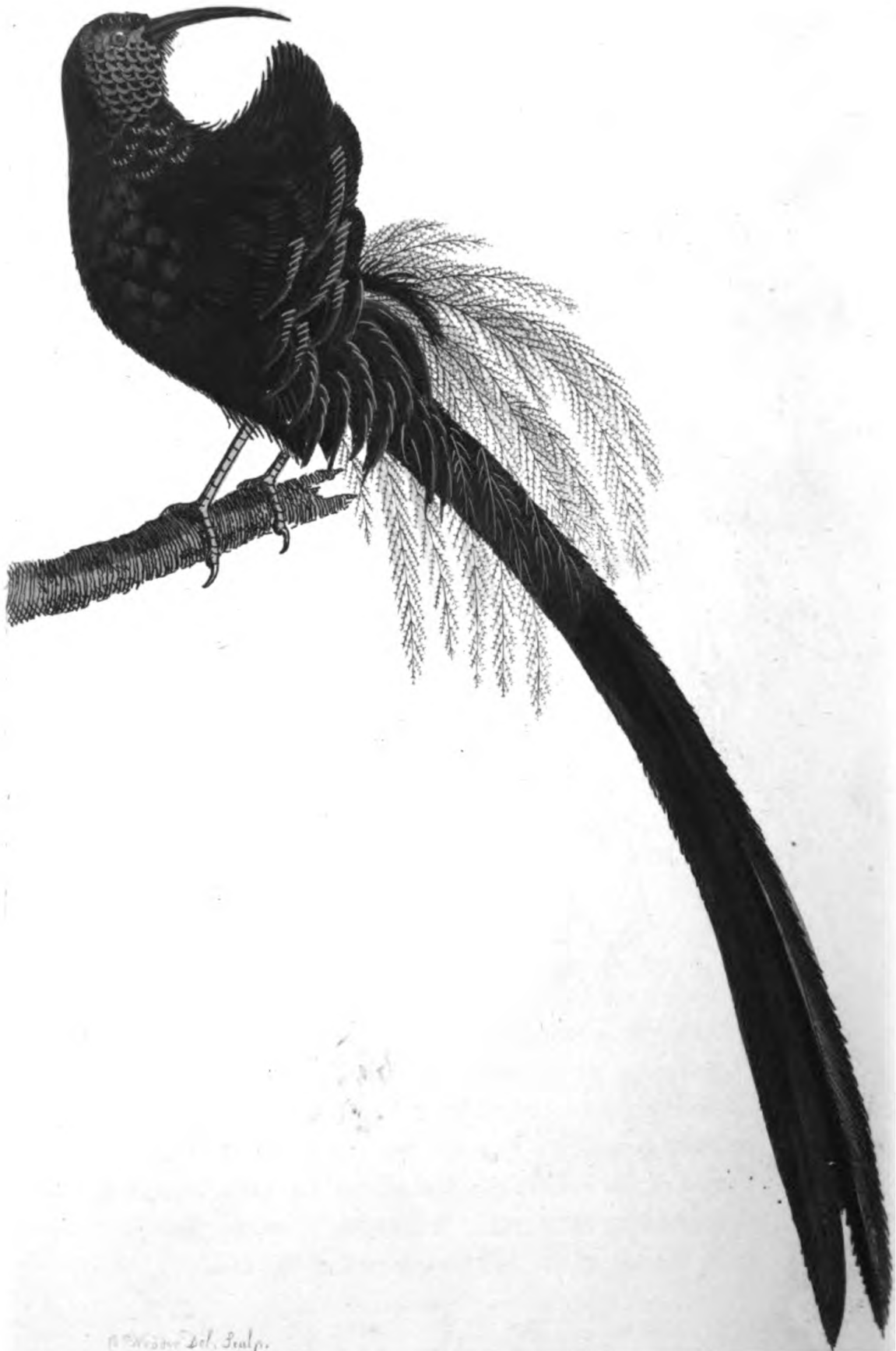
Upupa magna.

Lin. Gmel.

Raro innotuit physicis magnificentior avis *Promerops* superbo, forma et coloribus vix ipsis *Paradiseis* cedente, quod ad genus a nonnullis, quamvis falso, referri solet. *Papua*m seu novam *Guineam* incolit, a *Sonneratio* primum, ut videtur, descripta. Longitudo ab apice rostri ad extremum caudæ æquat fere quatuor pedes.

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W. G. S. Del. Sculp.

THE
SUPERB PROMEROPS.

GENERIC CHARACTER.

Bill as in the genus *Upupa*.

Feet formed for walking.

Tail lengthened, and in most species cuneated.

Gen. Zool. 8. p. 142.

SPECIFIC CHARACTER, &c.

Black Promerops with violet and green gloss,
falcated golden-shining scapular-feathers,
and very long tail.

Gen. Zool. 8. p. 145.

Grand Promerops à paremens frisés.

Buff. Ois.

Grand Promerops.

Lath. Syn.

Le grand Promerops.

Aud. & Viell. Ois. dorés,
pl. 8.

This is one of the most magnificent birds yet known to naturalists, and scarcely yields either in elegance of appearance or splendor of colours to the Paradise-Birds themselves, of which it has sometimes been erroneously considered as a species. It is an inhabitant of Papua or New-Guinea, and seems to have been first described by Sonnerat. Its length is nearly four feet from the tip of the bill to the end of the tail.

SCOMBER MACULOSUS.

CHARACTER GENERICUS.

Corpus oblongum, læve, linea laterali interdum
carinatum.

Pinnulæ sæpius supra infraque versus caudam.

Gen. Zool. 4. p. 577.

CHARACTER SPECIFICUS, &c.

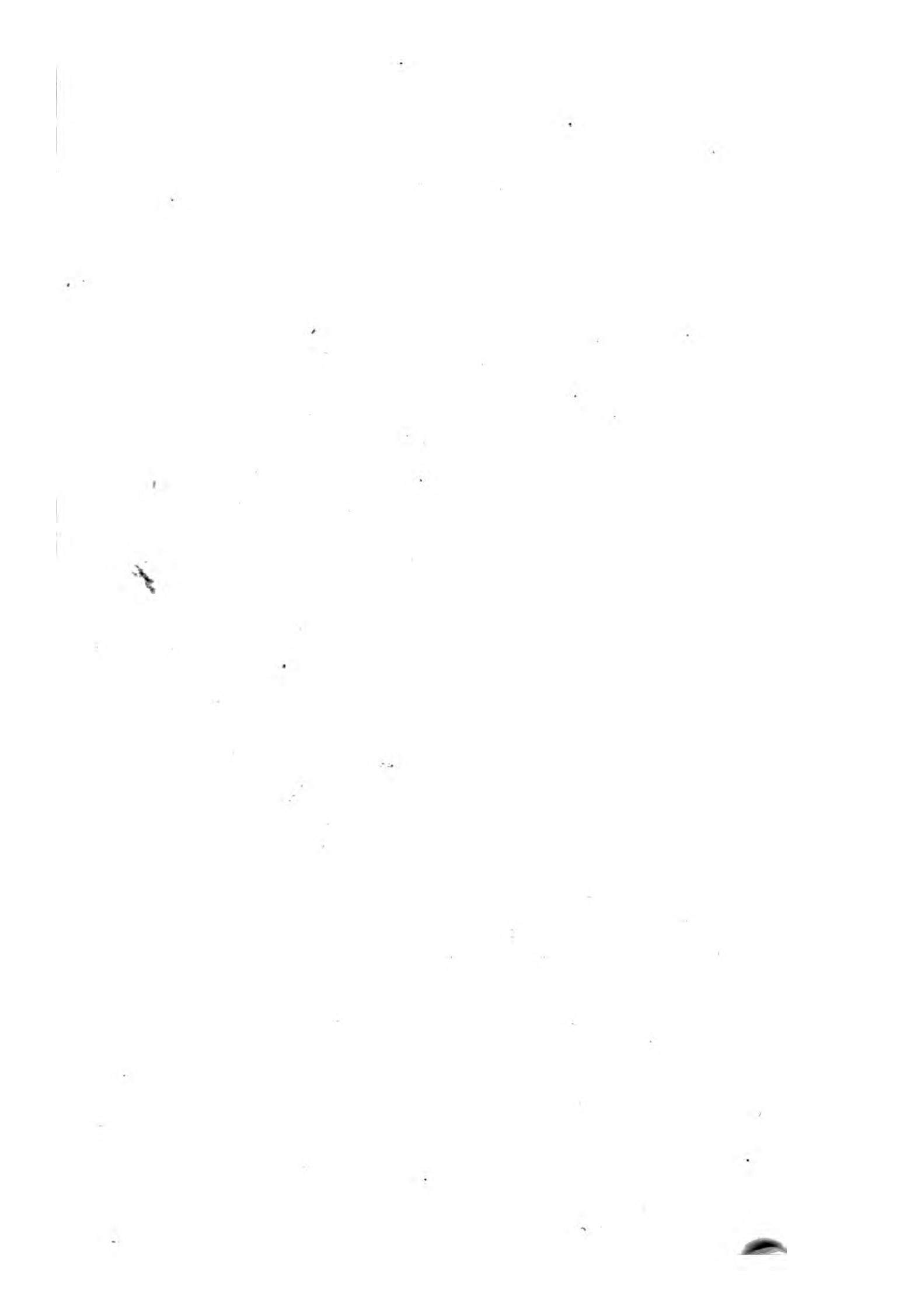
Scomber supra cæruleo-virescens, maculis nu-
merosis subalternis transversis elongatis
nigris.

Gen. Zool. 4. p. 592.

Konam.

Russel. Pisc. Ind. t. 135.

Maria incolit Indica *Scomber maculosus*, magnitu-
dine scombrum vulgarem Europæum superans.





401511

THE
MOTTLED MACKREL.

GENERIC CHARACTER.

Body oblong, smooth; sometimes carinated by the lateral line.

Finlets (in most species) above and below towards the tail.

Gen. Zool. 4. p. 577.

SPECIFIC CHARACTER, &c.

Mackrel of a blue-green colour above, with numerous, subalternate, transverse, elongated black spots.

Gen. Zool. 4. p. 592.

Konam.

Russel's Indian Fishes,
pl. 135.

The present species is an inhabitant of the Indian seas, and is of larger size than the Common European Mackrel.

ARANEA OCCIDUA.

CHARACTER GENERICUS.

Pedes octo. Oculi octo.

Os unguibus seu retinaculis duobus.

Palpi duo articulati; masculis genitalibus capitati.

Anus papillis textoriis.

CHARACTER SPECIFICUS, &c.

Aranea fusca, thorace radiatim excavata, tarsis rotundatis ferrugineis.

Roes. ins. 4. Append. Kleem.

t. 11.

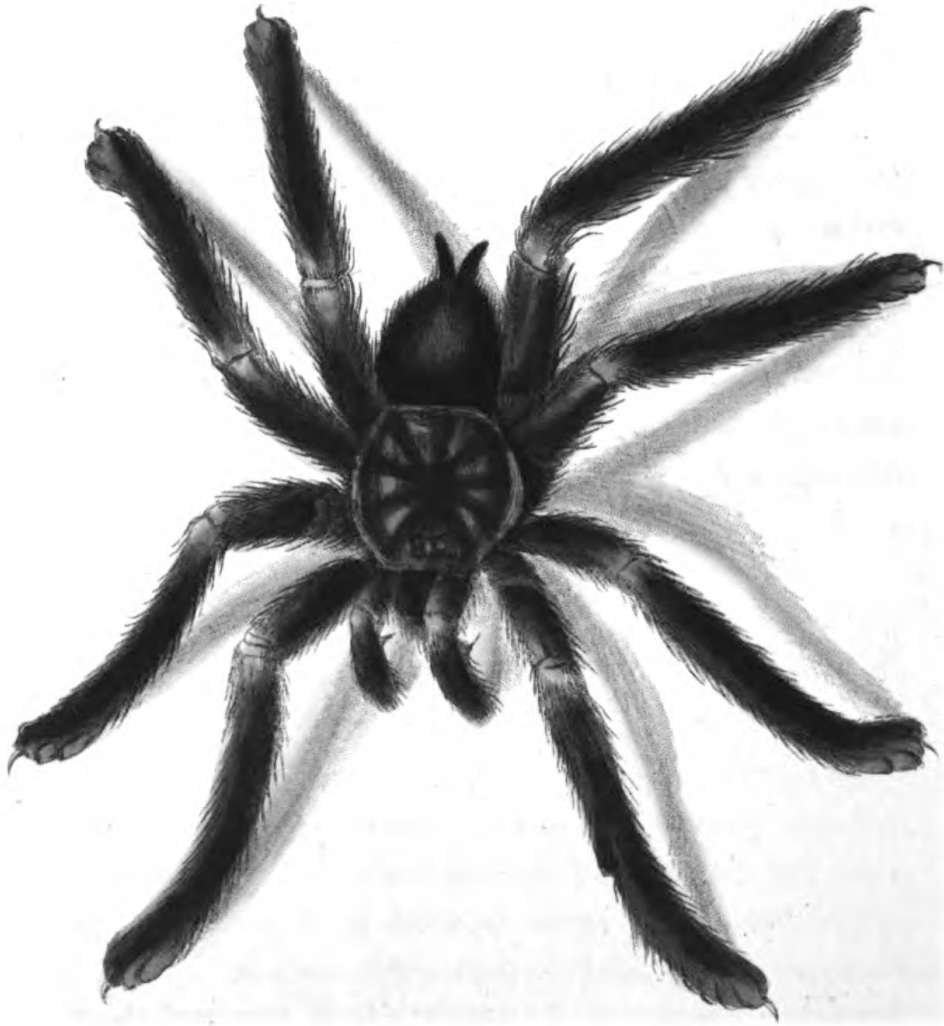
Invaluit jamdiu apud physicos opinio araneas plerasque majores exoticas meras esse varietates istius speciei quæ dicitur aranea avicularia Linnæi. Harum tamen nonnullas verisimilius crediderim ab avicularia revera esse diversas. Quæ in tabula juxta veram magnitudinem ostenditur in America generatur australi, et insulis quibusdam occiduis. Hanc eleganter satis et fideliter depinxit Domina Merian in opere de insectis Surinamensibus, nec non ingeniosus Roeselius qui generalem conscripsit insectorum historiam.

In primo volumine Amænitatum Academicarum (quod opus ductu et auspicio Linnæi editum est) pro certo affirmatur pedes aranæ aviculariæ non duplicem unguem, ut solent pedes aliarum aranearum, sed uni-

cum tantum genere. Quomodo in errorem non levem inciderit scriptor celeberrimus difficillimum est dicere, nisi pedes individui istius speciminis, de quo ibi disseritur, casu aliquo fuisse mutilatos, et altero ungue privatos. Sed melius forsitan erit ipsius authoris verba proferre.

“Ungues pedum, ab auctoribus variis descriptos, studiose quæsimus. At vero, apices pedum obtusi plane sunt, et denso vellere tecti, latente in pilis parvulo quodam, incurvo et simplici unguiculo, anteriores etiam pedes armante, sed usque adeo minuto, ut, nisi ferreo stilo investigetur, vix appareat. Falli ergo eos oportet, qui binos singulo pedi, et quidem majusculos, ungues tribuunt et appingunt.”





A. P. Nodder Del. "Sculp."

THE
WESTERN SPIDER.

GENERIC CHARACTER.

Eyes eight. *Legs* eight.

Mouth furnished with two hooks or holders.

Palpi or *Feelers* two, the tips of which, (in the males) distinguish the sex.

Abdomen terminated by *papillæ* or *teats*, through which the animal draws its thread.

SPECIFIC CHARACTER, &c.

Brown Spider, with a radiated excavation on the thorax, and rounded ferruginous feet.

Mer. Surin. pl. 18.

It has been usual among naturalists to consider several very large exotic spiders as constituting so many mere varieties of one single species, viz. the *Aranea avicularia* of Linnæus. It is however more than probable that some at least of these supposed varieties are really distinct species. The particular kind exhibited in its natural size on the present plate, is a native of South-America and some of the West-Indian islands, and has been elegantly and correctly figured by Madam Merian in her work on the Surinam insects, and by the ingenious Roesel in his general history of insects.

I cannot omit taking notice of a most extraordinary error in a description given of the *Aranea avicularia* in the first volume of the *Amænitates Academicæ* of Linnæus, in which it is expressly affirmed, that the feet of that insect are furnished with only a single claw on each, and not with a pair, as in other spiders. How this very singular mistake could have been committed, is hardly to be conceived, except by supposing that the individual specimen examined for the purpose, happened accidentally to be mutilated in this respect.

I have diligently searched (says the writer) for the claws on the feet, described by various authors: the tips of the feet are obtuse, and thickly covered with hair, amidst which is concealed a small, crooked, single claw, but so minute as to be scarcely perceptible unless investigated by the assistance of a needle; and it therefore follows that an error has been committed by those who have described and figured two claws, and those rather large ones, on each foot.

RANA IGNEA.

CHARACTER GENERICUS.

Corpus tetrapodum, ecaudatum, nudum.

Lin. Syst. Nat.

CHARACTER SPECIFICUS, &c.

Rana olivaceo-fusca tuberculata, subtus aurantia cæruleo maculata.

Gen. Zool. 3. p. 116.

Bufo vulgo igneus dictus.

Roes. ran. p. 97. t. 22.

Ranarum Europæarum, si excipias ranam arboream, minima est quæ ignea dicitur, quamque alit Germania, regionesque in medio Europæ sitæ. Variat nonnunquam coloribus, quod et aliis plerisque congenerebus accidit. Amat loca humida et umbrosa, aquasque turbidas et stagnantes, alacri indole, saltu et natatu ipsa rana communi melior.



Spotted Frog



THE
FIRE FROG.

GENERIC CHARACTER.

Body four-footed, without tail, and naked, or without any integument but the skin.

SPECIFIC CHARACTER, &c.

Olive-brown Frog, beneath orange-coloured spotted with blue.

Gen. Zool. 3. p. 116.

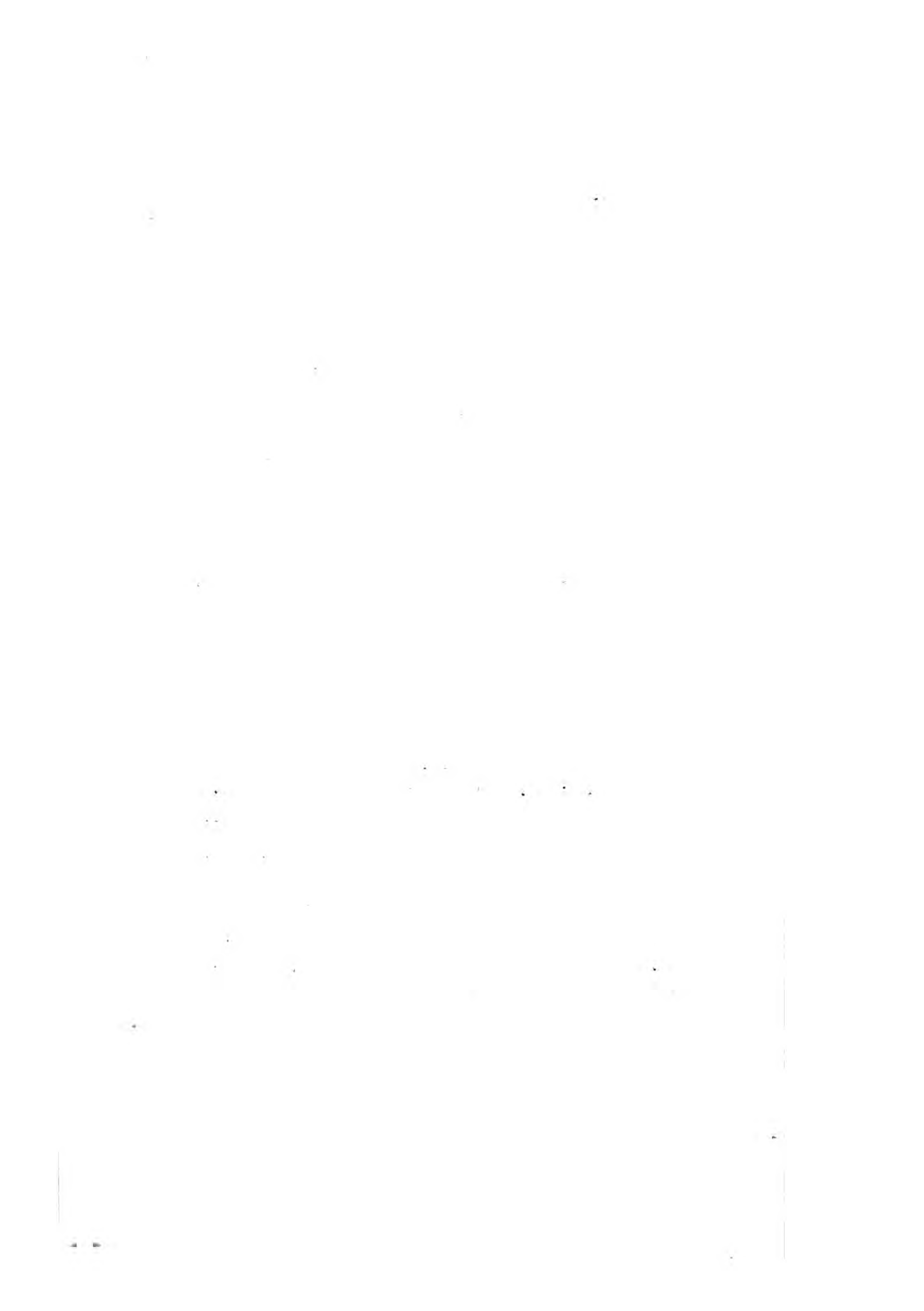
Rana bombina?

Lin. Syst. Nat.

La Sonnante.

Cepede ov. 1. p. 553.
pl 37.

This, which may be considered as the smallest of the European frogs, except the *Rana arborea* or tree frog, is a native of Germany and other midland parts of Europe, and, like most of the present genus, varies occasionally in the cast of its colours. It is principally found in damp, shady situations, or in turbid stagnant waters, and is of a remarkably active and lively nature, leaping and swimming with equal or even superior celerity to the common frog.



PROMEROPS CÆRULEUS.

CHARACTER GENERICUS.

Rostrum Upupæ.

Pedes ambulatorii.

Cauda elongata (plerisque cuneata.)

CHARACTER SPECIFICUS, &c.

Promerops cæruleus, rostro pedibusque nigris.

Gen. Zool. 8. p. 142.

Upupa Indica.

Lath. ind. orn.

Indiam incolit Promerops cæruleus, magnitudine quasi Upupæ communis Europææ.



R. P. H. de la Salle

THE
BLUE PROMEROPS.

GENERIC CHARACTER.

Bill as in the genus *Upupa*.

Feet formed for walking.

Tail lengthened, and, in most species, cuneated.

SPECIFIC CHARACTER, &c.

Blue Promerops, with black bill and legs.

Gen. Zool. 8. p. 142.

Blue Promerops.

Lath. syn. suppl.

Le Promerops bleu.

Aud. et Viell. Prom. pl. 9.

The blue Promerops is a native of India, and is about the size of the Common or European Hoopoe.

HOLOCENTRUS AURATUS.

CHARACTER GENERICUS.

Habitus generis Percæ.

Opercula squamosa, serrata, aculeata-

Squamæ (pluribus) duræ, asperæ.

CHARACTER SPECIFICUS, &c.

Holocentrus auratus. *H. luteus*, rubro punctulatus.

Gen. Zool. 4. p. 562.

Holocentrus auratus. *H. punctatus*, aculeis dorsalibus novem.

Bloch. ichth. 7. p. 57. t. 236.

Maria incolit Indica *Holocentrus auratus*, magnitudine Percæ vulgaris.



Acis. Thalassoma daniellii

1866

THE
GOLDEN HOLOCENTRUS.

GENERIC CHARACTER.

Habit of the genus *Perca*.

Gill-Covers scaly, serrated, and aculeated.

Scales (in most species) hard and rough.

SPECIFIC CHARACTER, &c.

Gold-yellow *Holocentrus*, with red specks.

Gen. Zool. 4. p. 562.

Der Goldsogo.

Bloch. ichth. pl. 236.

The Golden *Holocentrus* is an inhabitant of the Indian seas, and is of the size of the Common European Perch.

OSTREA ISLANDICA.

Var.

CHARACTER GENERICUS.

Animal Tethys.

Testa bivalvis, inæquivalvis, subaurita.

Cardo edentulus, fossula cava ovata striisque lateralibus transversis.

CHARACTER SPECIFICUS, &c.

Ostrea testa orbiculari subflava vel rubea, fasciis transversis purpureis, auriculis inæqualibus, radiis numerosis.

Ostrea Islandica.

Lin. Syst. Nat. Gmel.

Fabr. Faun. Groenl.

Magnitudine vera exprimitur elegans hæc varietas *Ostreæ* Islandicæ.



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287 N. 1000 D. 1. 1. 1. 1.

THE
ICELANDIC SCALLOP.

Var.

GENERIC CHARACTER.

Animal allied to a Tethys.

Shell bivalve ; valves unequal, subauriculated.

Hinge toothless, with an ovate fossule and transverse lateral streaks.

SPECIFIC CHARACTER, &c.

Scallop with orbicular yellowish or reddish shell, with transverse purple bands, unequal ears, and numerous rays.

Knorr Vergn. 1. pl. 5. f. 2.

This elegant variety of the Icelandic Scallop is represented in its natural size on the annexed plate.

SPHINX ELPENOR.

CHARACTER GENERICUS.

Antennæ subprismaticæ, utroque fine attenuatæ.

Lingua exserta (plerisque).

Palpi duo, reflexi.

Alæ deflexæ.

Lin. Syst. Nat. Gmel.

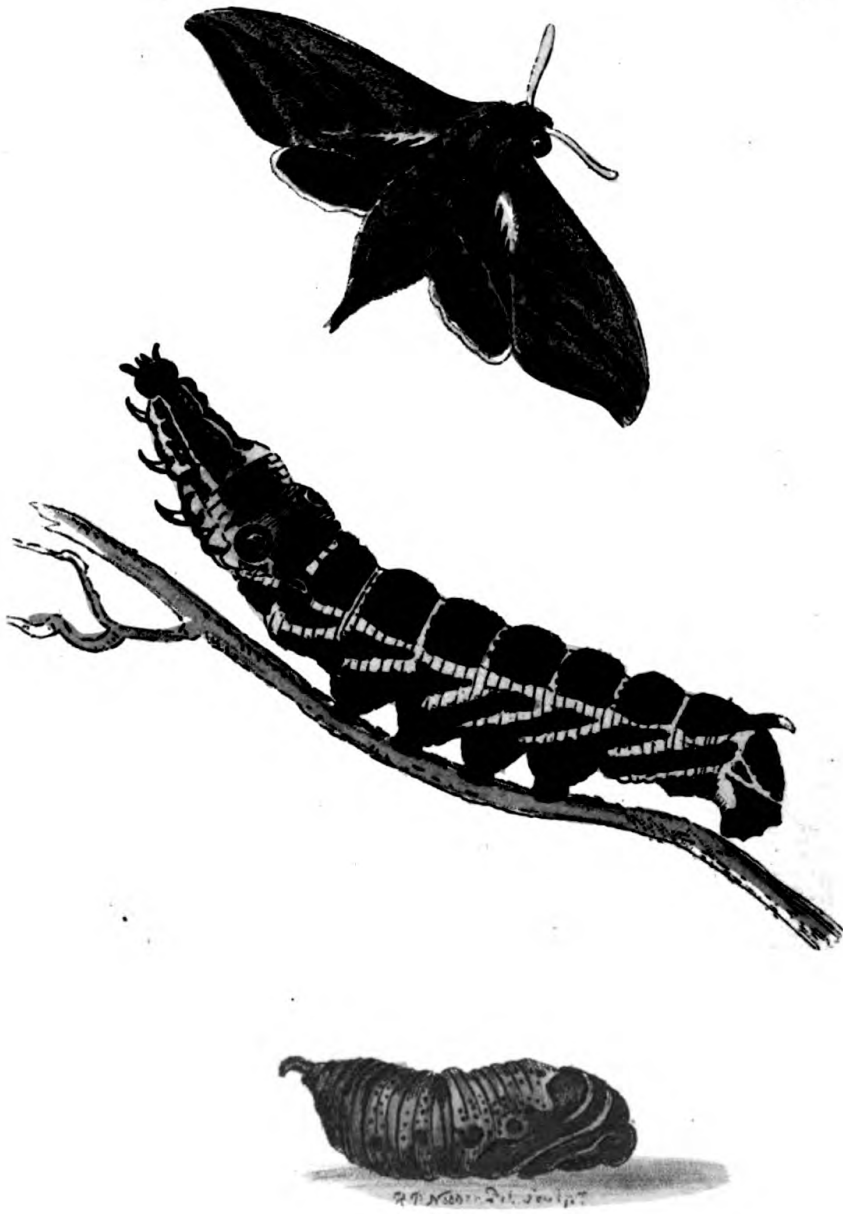
CHARACTER SPECIFICUS, &c.

Sphinx alis superioribus corporeque olivaceis
roseo-striatis, inferioribus roseis basi ni-
gris.

Sphinx Elpenor. S. alis integris virescentibus,
fasciis purpureis variis, posticis rubris basi
atris.

Lin. Syst. Nat.

Galii palustris folia præcipue depascitur larva pul-
cherrimi hujus Insecti, et in chrysalidem mense Au-
gusto convertitur, unde Mense Maio erumpit ipsa
Sphinx.



ELPENOR.

GENERIC CHARACTER.

Antennæ subprismatic, attenuated at each end.

Feelers two, reflex.

Tongue (in most species) exerted.

Wings deflected.

SPECIFIC CHARACTER, &c.

Sphinx with the upper wings and body olive-coloured, striped with rose-colour; the lower wings rose-coloured with black base.

Roes. ins. 1. *pap. noct.* pl. 4.

Albin. Engl. Ins. pl. 9.

The Greater Elephant Hawk-Moth.

The Caterpillar of this beautiful Insect feeds principally on the leaves of the white marsh Galium or Bedstraw, and changes to a chrysalis in the month of August, from which in the following May emerges the animal in its perfect state.

STRIX AFRICANA.

CHARACTER GENERICUS.

Rostrum aduncum, absque cera.

Nares oblongæ, pennis setaceis recumbentibus
obtectæ.

Caput grande, auribus oculisque magnis.

Lingua bifida.

Digitus externus retro mobilis.

CHARACTER SPECIFICUS, &c.

Strix subfusca subtus nivea, cauda fasciis numerosis linearibus albis.

Gen. Zool. 7. p. 278.

Le Choucou.

Levaill. Ois. Afr. t. 38.

Speciem elegantem cernere est in tabula in Africa interiori generatam, quamque primum opinor descripsisse Levaillantum. Prodire solet per crepuscula celerimo volatu, sæpius radens iter prope terram, emissa stridula voce. Femina mari paulo minor est, corpore inferiore minus niveo. *Æquat* avis longitudine quasi decem uncias.





THE
AFRICAN OWL.

GENERIC CHARACTER.

Bill hooked, without cere.

Nostrils oblong, covered with recumbent setaceous feathers.

Head, eyes, and ears large.

Tongue bifid.

Exterior toe moveable backwards.

SPECIFIC CHARACTER, &c.

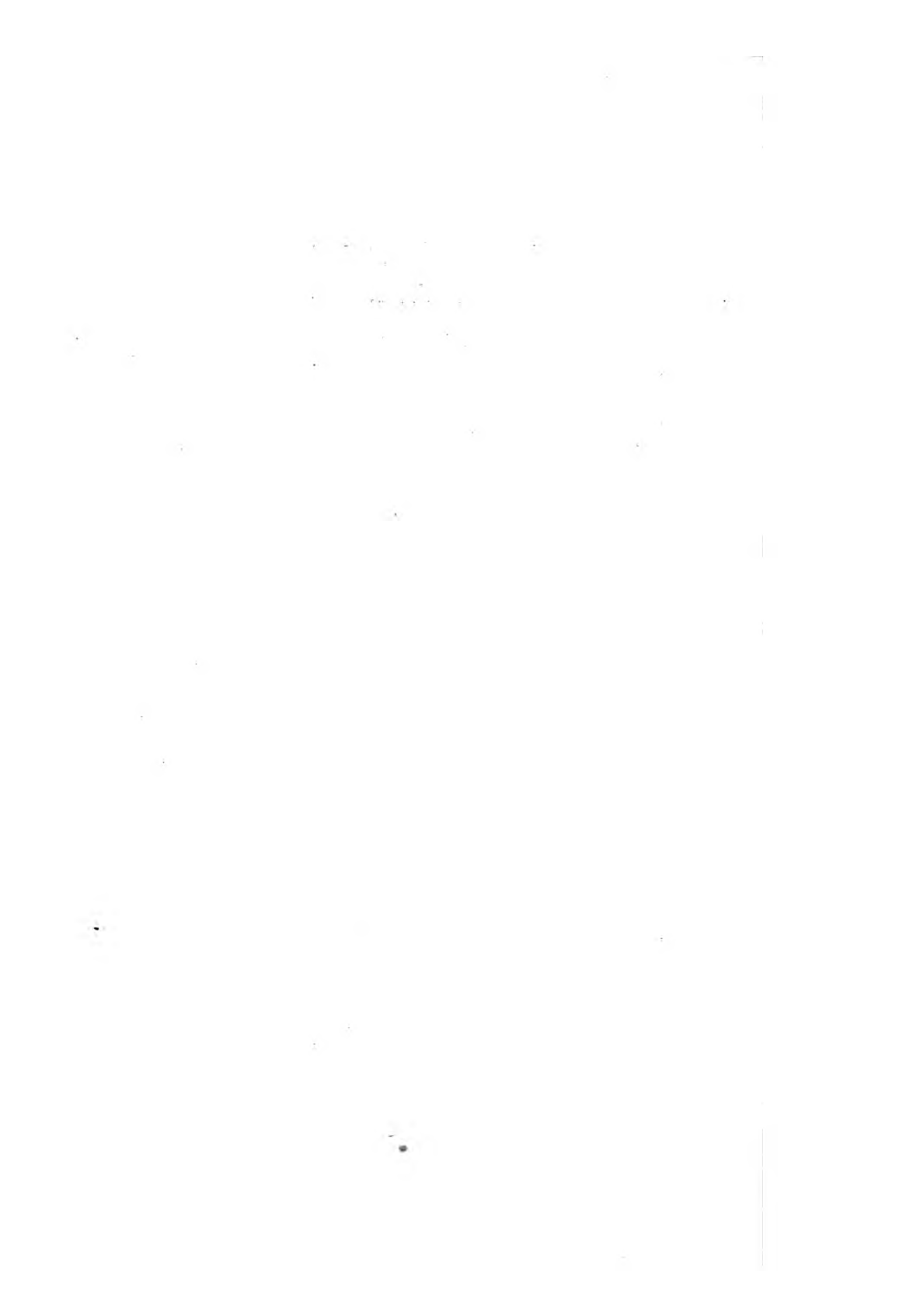
Brownish Owl, snow-white beneath, with the tail crossed by numerous linear white bars.

Gen. Zool. 7. p. 278.

Le Choucou.

Levaill. Ois. Afr. pl. 38.

This elegant species, which measures about ten inches in length, and which seems to have been first described by Levaillant, is a native of the interior parts of Africa, appearing only during the twilight; flying with great celerity, skimming at intervals the surface of the ground, and frequently uttering a sharp cry. The female is rather smaller than the male, and of a less pure or snowy white colour on the under parts.



SCLÆNA UNIMACULATA.

CHARACTER GENERICUS.

Caput squamosum.

Pinnæ dorsales duæ, in fossula recondendæ.

Membr. branch. radiis sex.

CHARACTER SPECIFICUS, &c.

Sciæna argenteo-cinerea flavo lineata, corpore macula utrinque nigra.

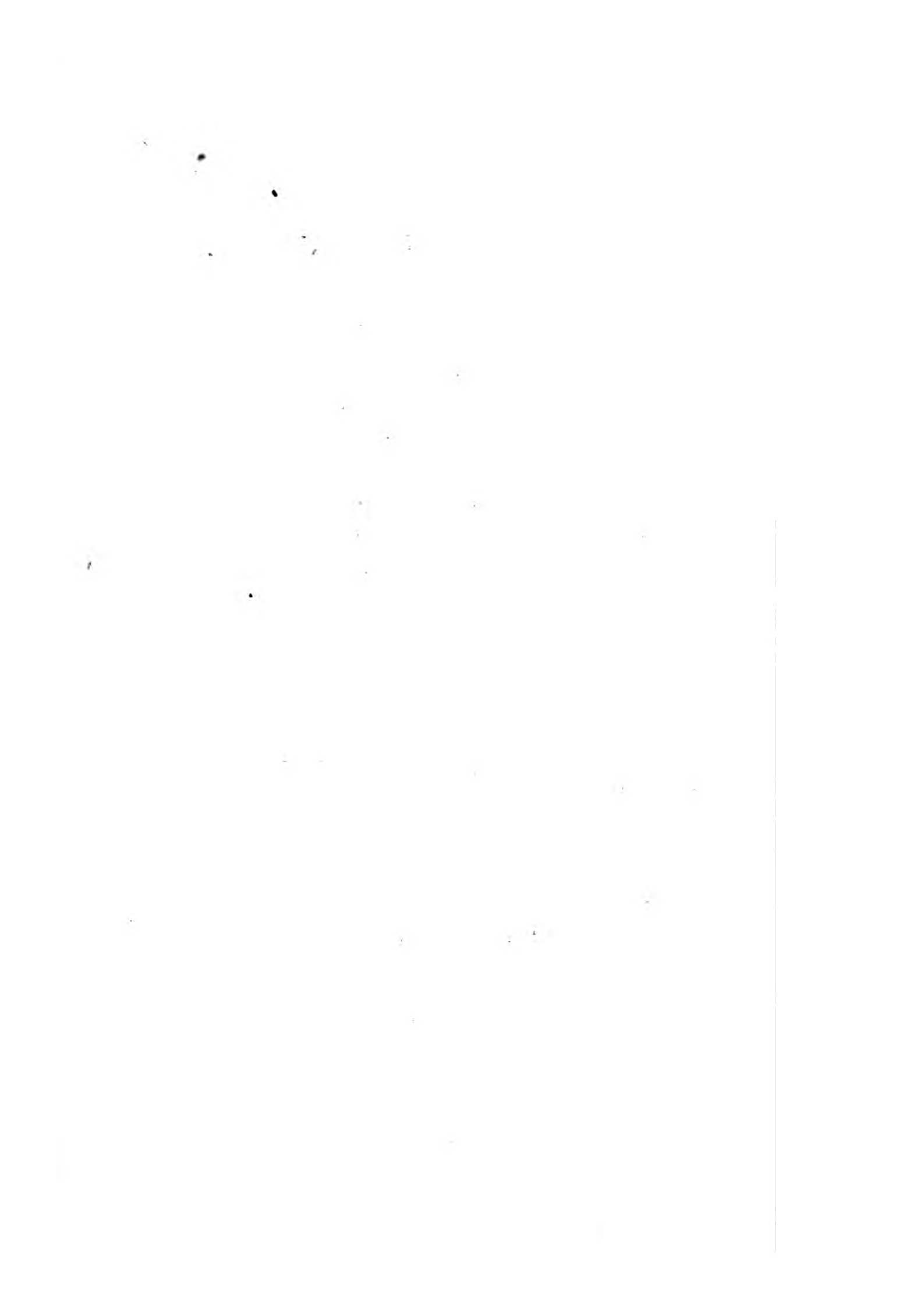
Perca unimaculata. P. macula rotunda in latere utroque.

Bloch. ichth. 9. t. 308. f. 1.

Sciæna unimaculata?

Gen. Zool. 4. p. 339.

In maribus Brasiliensibus innascitur *Sciæna maculata*; nonnunquam tamen fluvios intrat, eo præcipue tempore quo ova solet deponere. In cibis habetur lautioribus, et ad eandem crescit magnitudinem quam *Cyprinus Carpio* seu vulgaris. Piscem primus descripsisse videtur *Marcgravius*, qui *Salemam* nuncupavit.







Acanthaluteres *Zealandicus* ¹

THE
SINGLE-SPOTTED SCIÆNA.

GENERIC CHARACTER.

Head scaly.

Dorsal fins two, seated in a furrow into which they are occasionally withdrawn.

Gill-Membrane six-rayed.

SPECIFIC CHARACTER, &c.

Silvery-grey Sciæna, striped with yellow, and marked on each side the body by a black spot.

Salema.

Marcgr. Bras.

Der Fleck.

Bloch. ichth. 9. pl. 308. f. 1.

The present species is a native of the Brazilian seas, occasionally entering rivers, especially during the spawning-season. It is considered as an excellent fish for the table, and arrives at the size of a common Carp. It seems to have been first described by Marcgrave, under the name of Salema.

PAPILIO PYRETUS.

CHARACTER GENERICUS.

Antennæ apicem versus crassiores, sæpius clavato-capitatæ.

Alæ (sedentis) erectæ sursumque conniventes.
(Volatu diurno.)

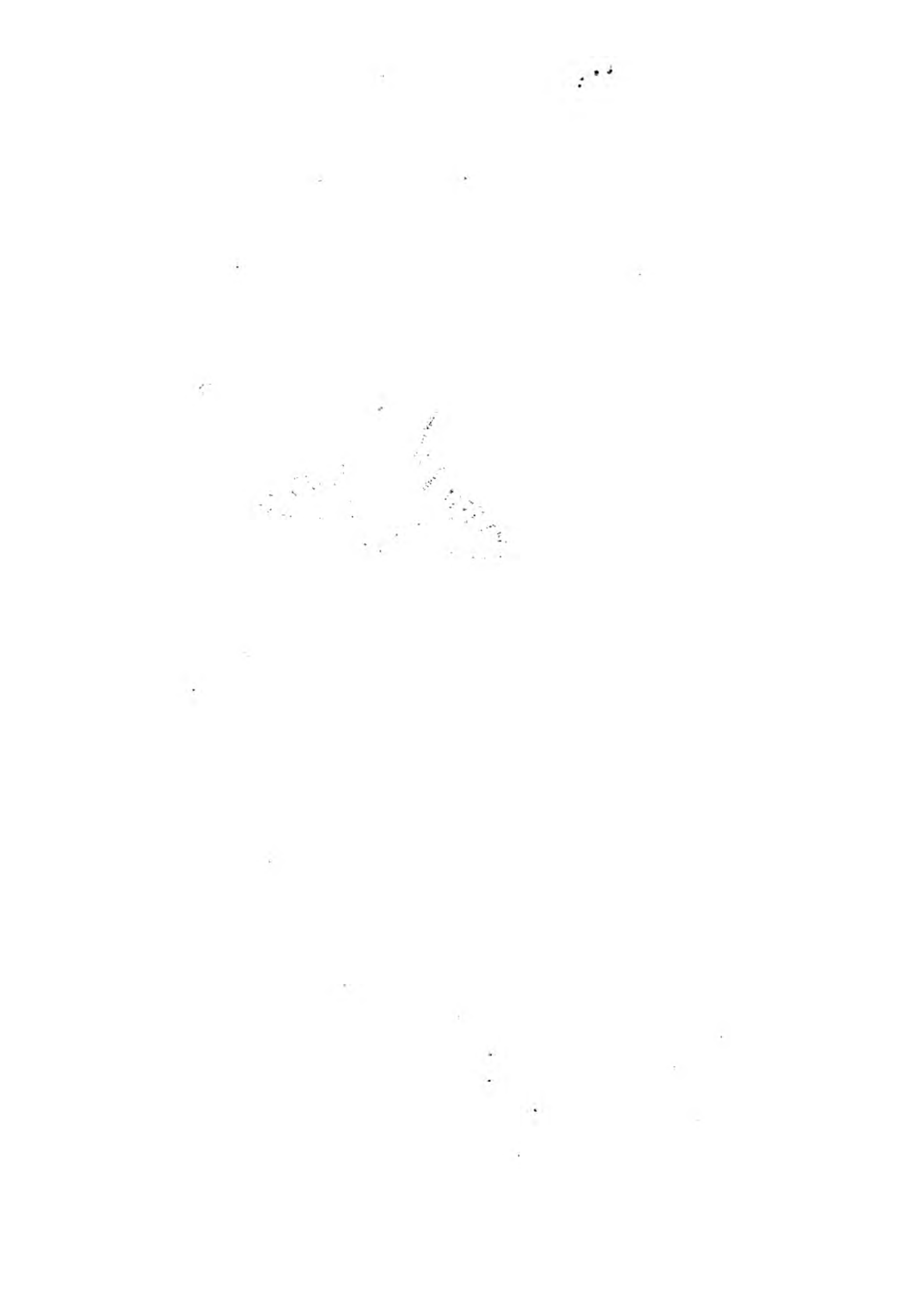
CHARACTER SPECIFICUS, &c.

Papilio alis caudatis supra nigris fascia rubra,
infra aureo-cæruleis fascia nigra.

Papilio Pyretus.

Cram. t. 144. f. A. B.

Surinamiam incolit bellus hic Papilio, et magnitudine vera in tabula depingitur.



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R.P. H. 1880 D. J. S. 1881

PYRETUS.

GENERIC CHARACTER.

Antennæ thickening towards the end, and generally terminating in a clavated tip.

Wings (when at rest) meeting upwards. Flight diurnal.

SPECIFIC CHARACTER, &c.

Tail-winged Butterfly, with the wings black above with a red bar, and gilded-blue beneath with a black bar.

Pyretus.

Cram. pl. 144. f. A. B.

This beautiful Butterfly is a native of Surinam, and is represented on the plate in its natural size.

OSTREA VARIA.

CHARACTER GENERICUS.

Animal Tethys.

Testa bivalvis, inæquivalvis, subaurita.

Cardo edentulus, fossula cava ovata striisque lateralibus transversis.

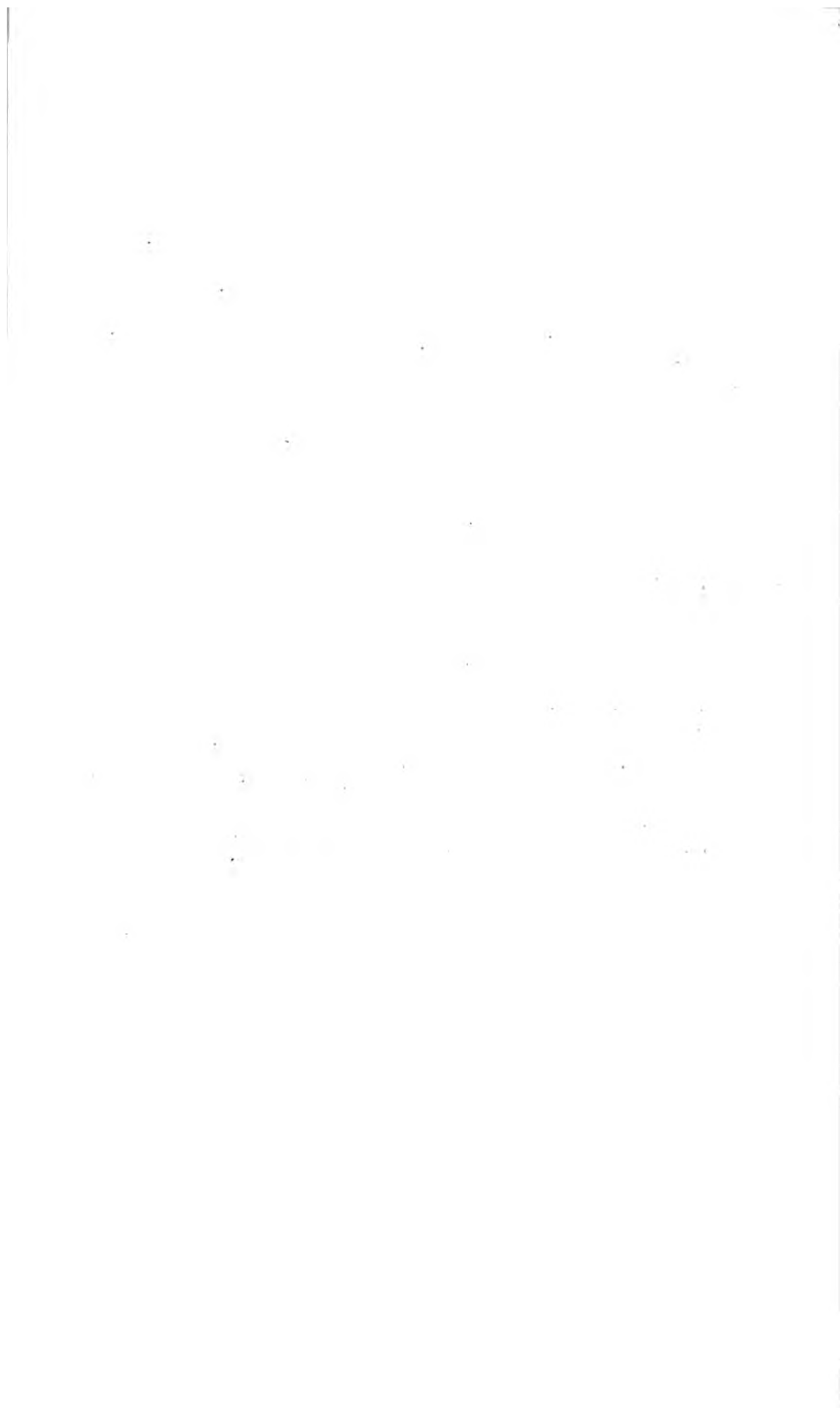
CHARACTER SPECIFICUS, &c.

Ostrea albida seu subflava, fasciis transversis irregularibus rubris, radiis triginti scabris, auriculis inæqualibus.

Ostrea varia? *O.* testa æquivalvi, radiis triginti scabris compressis echinatis, uniaurita.

Lin. Syst. Nat.

In maribus Europæis innascitur *Ostrea varia*, coloribus et magnitudine multum varians.





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THE
VARIEGATED SCALLOP.

GENERIC CHARACTER.

Animal allied to a Tethys.

Shell bivalve, valves generally unequal, subauriculated.

Hinge toothless, with an ovate fossule and transverse lateral streaks.

SPECIFIC CHARACTER, &c.

Whitish or yellowish Scallop, variegated with irregular transverse red bands, with about thirty rough rays, and unequal ears.

Variegated Scallop.

Penn. Brit. Zool.

Lister 187.

Chemn. 7. pl. 66. f. 633. 634.

Knorr 1. pl. 19. f. 2. and 2. pl. 18. f. 5.

The Species here represented is a native of the European seas, varying very considerably both in size and colours.

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PARADISEA GULARIS.

CHARACTER GENERICUS.

Rostrum capistri plumis tomentos tectum.
Pennæ hypochondriorum plerisque longiores.
Pedes validi, ambulatorii.

CHARACTER SPECIFICUS, &c.

Paradisea gularis. *P. nigra* purpureo-nitens, subtus dorsoque aureo-atro-virentibus, gula aureo-cuprea, cauda cuneata longissima.

Gen. Zool. 7. p. 501.

Paradisea gularis. *P. purpureo-nigricans*, capistro genisque tomentos, cervice fasciaque pectorali viridi-nitentibus, sub gula lunula aureo-cuprea fulgidissima.

Lath. ind. orn.

Pulcherrimam hanc avem in insulis Moluccis generatam cernere est eleganter depictam in operibus Vieillotii et Levaillantii. Convenit huic ingenium modusque vivendi cum reliquis Paradiseis. Longitudo ab apice rostri ad extremum caudæ quasi bipedalis est cum semipede.





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THE
GORGET PARADISE-BIRD.

GENERIC CHARACTER.

Bill covered at the base by velvet-like plumes.
Side-Feathers beneath the wings, in most species,
extending far beyond the rest of the plu-
mage.
Legs strong: feet formed for walking.

SPECIFIC CHARACTER, &c.

Black Paradise-Bird, glossed with purple, the
back and under parts blackish gold-green,
the throat copper-coloured, and the tail
extremely long and cuneated.

Gorget Paradise-Bird.

Lath. syn.

Le hausse-col dorè.

Viellot ois. Parad.

This most beautiful bird is an inhabitant of the
Molucca isles, and is elegantly figured in the splendid
works of Mons. Viellot and Mons. Levaillant. In its
manners it resembles the rest of the genus *Paradisea*,
and measures about two feet and a half from the tip
of the bill to that of the tail.

SPARUS ERYTHROURUS.

CHARACTER GENERICUS.

Dentes validi: *primores* ordine simplici, duplici, triplici, vel quadruplici dispositi.

Molares (plerisque) validi, convexi, læves, in series dispositi, et quasi pavementum in ore efformantes.

Labia crassa: *opercula* mutica, squamosa.

CHARACTER SPECIFICUS, &c.

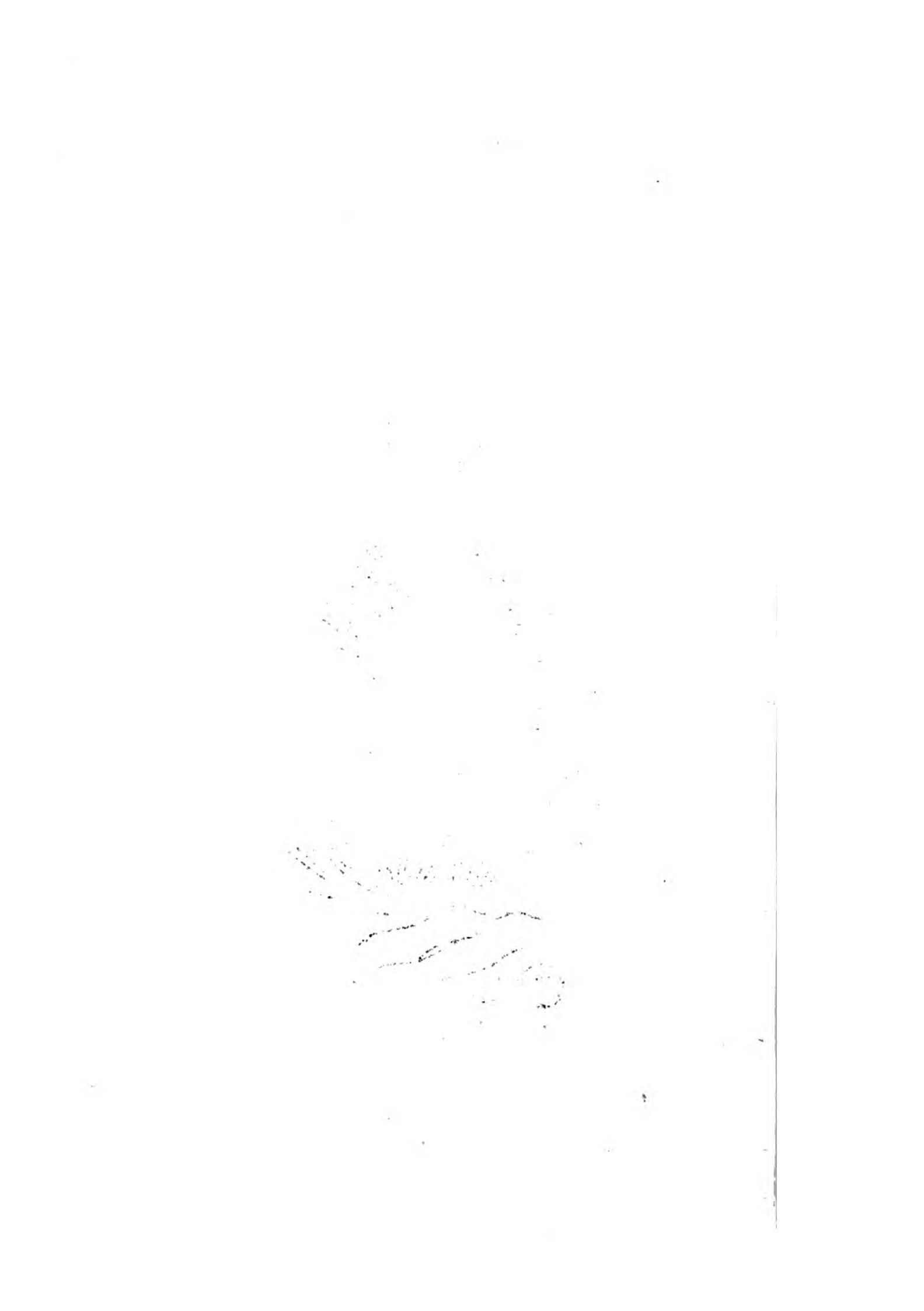
Sparus argenteus, dorso subcæruleo, pinnis et præsertim caudæ rubris.

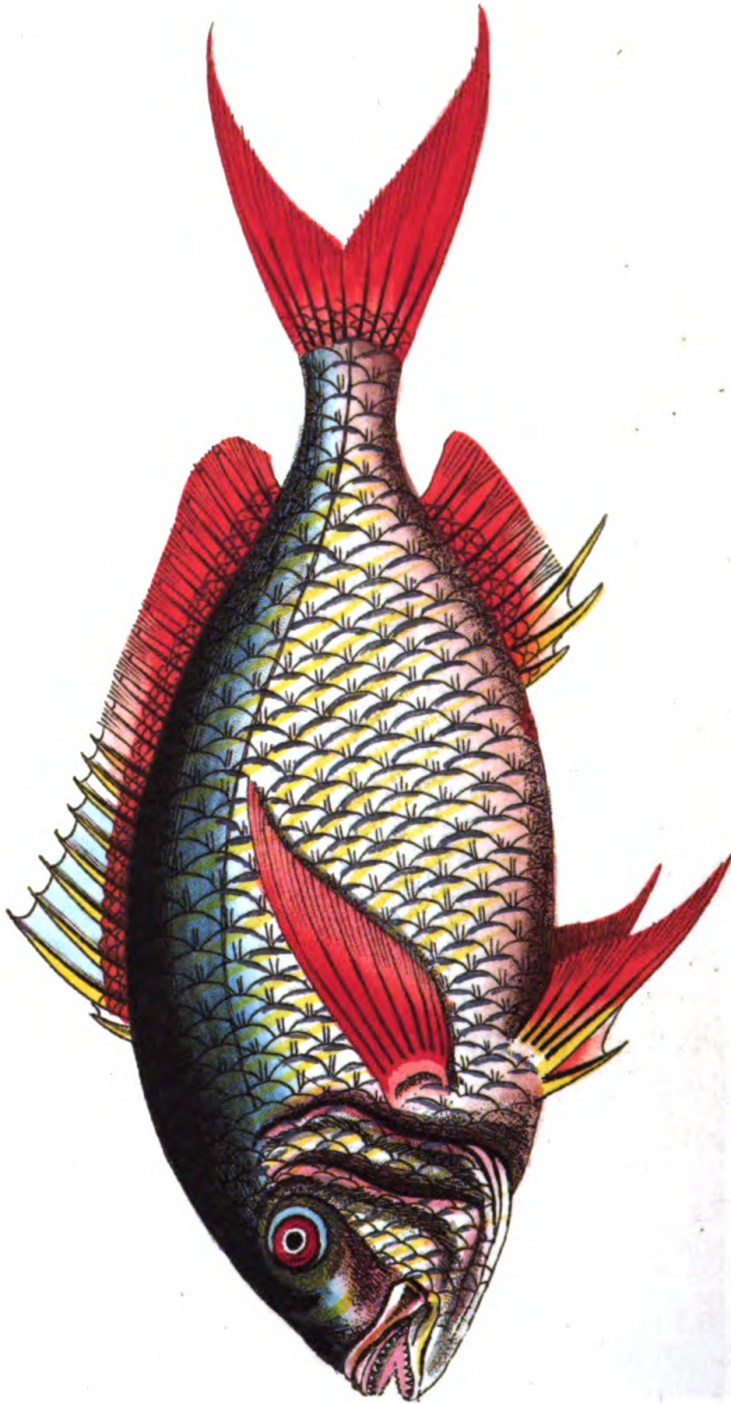
Gen. Zool. 4. p. 405.

Sparus erythrourus. S. dentibus minutissimis, radiis decem in pinna ani.

Bloch. ichth. 8. t. 241.

Maria incolit Indica *Sparus erythrourus*, longitudine quasi *Spari communis* sive *Auratæ* Linnæi.





THE
RED-TAILED SPARUS.

GENERIC CHARACTER.

Teeth strong: *front-teeth* in some species disposed in a single row, in others in a double, treble, or quadruple row.

Grinders (in most species) convex, smooth, and disposed in ranges, forming a kind of pavement in the mouth.

Lips thick: Gill-Covers unarmed, smooth, scaly.

SPECIFIC CHARACTER, &c.

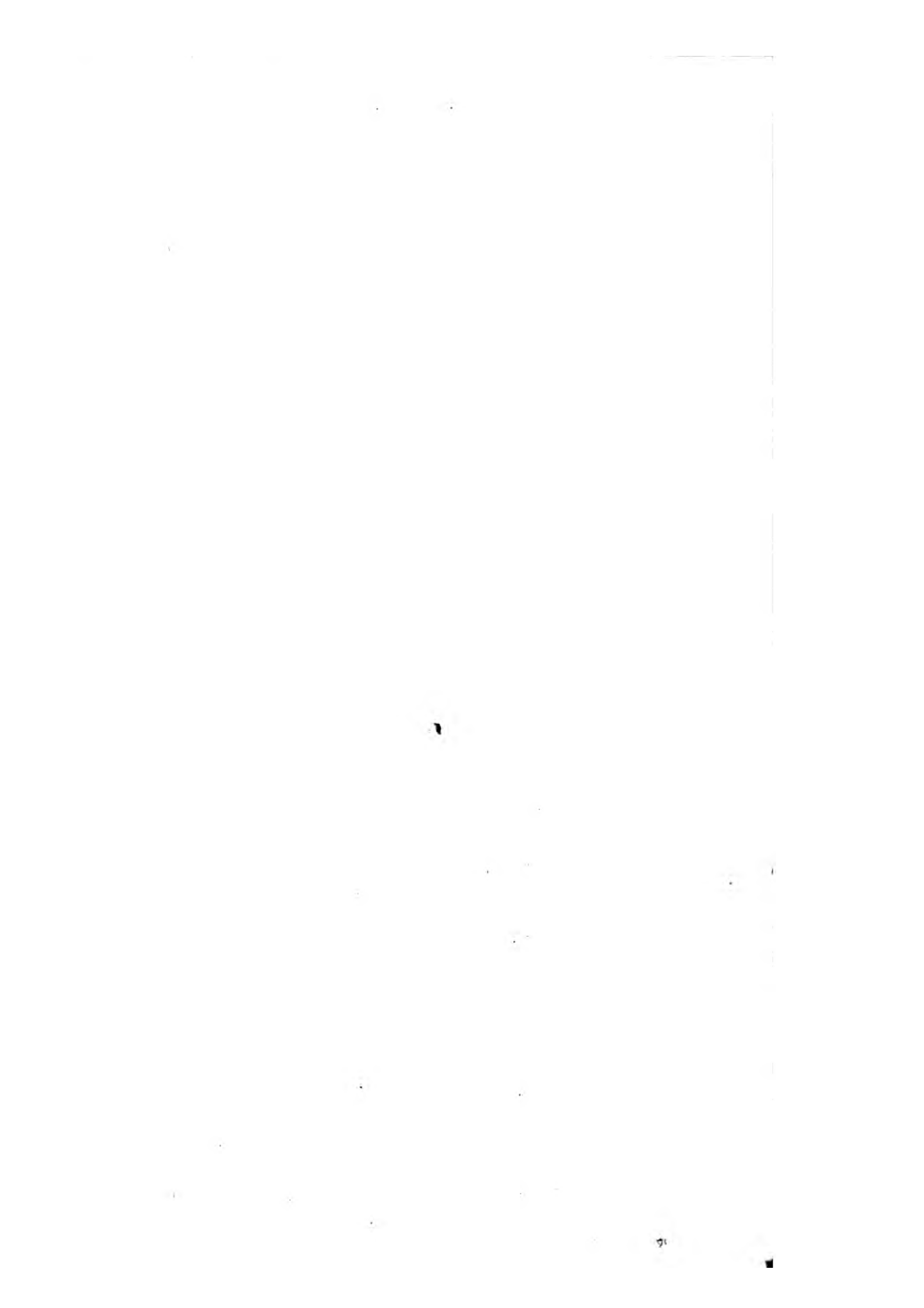
Silvery Sparus, with blueish back, and red fins, particularly the tail.

Gen. Zool. 4. p. 405.

Der Rothschwanz.

Bloch. ichth. 8. pl. 241.

The Red-Tailed Sparus is a native of the Indian seas, and is of the same size as the Sparus *Aurata* of Linnæus, or Common Gilthead.



ARGONAUTA TUBERCULATUS.

CHARACTER GENERICUS.

Animal Sepia.

Testa univalvis, spiralis, involuta, membranacea, unilocularis.

Lin. Syst. Nat. p. 1161.

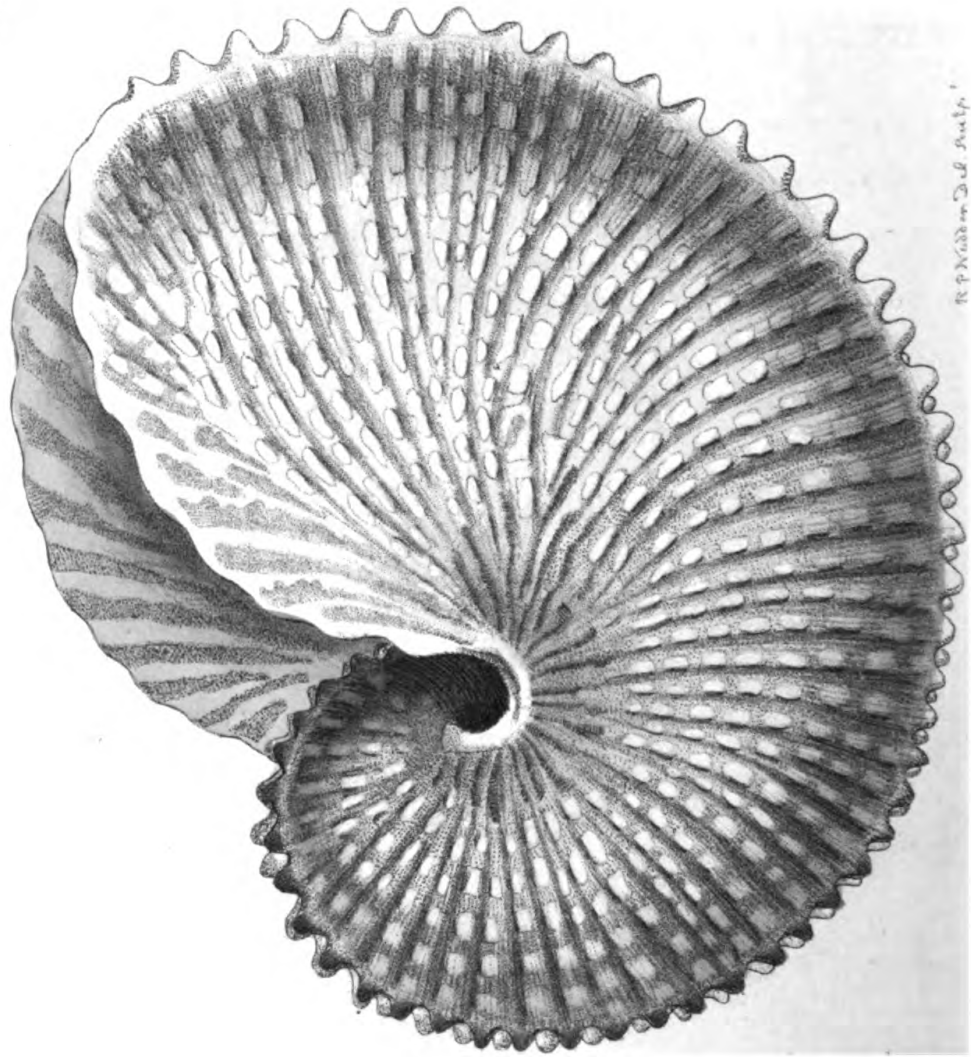
CHARACTER SPECIFICUS, &c.

Argonauta carina utrinque subdentata, striis lateralibus tuberculatis.

Nautilus tenuis.

Seb. 3. t. 84. f. 4.

Sæpius creditum est Argonautam tuberculatum meram esse varietatem Argonautæ Argus Linnæi, a quo tamen discrepat, striis longitudinalibus, quæ in concha visuntur, non planis, sed in tubercula surgentibus. Crescit in eandem magnitudinem quam Argonauta Argo; fortasse etiam ampliorem. Enutritur in maribus Indicis.



W. H. Dall

THE
TUBERCULATED ARGONAUT.

GENERIC CHARACTER.

Animal resembling a Sepia.

Shell univalve, spiral, unilocular, very thin.

SPECIFIC CHARACTER, &c.

Argonaut with the keel denticulated on each side, and tuberculated lateral stripes.

L'Argonaute a grains de riz.

Denys-Montfort. Mollusques. 3. p. 307.

The tuberculated or granulated Paper-Nutilus.

The present shell has been frequently considered as a variety only of the Argonauta Argo of Linnæus, or common Paper-Nutilus, from which it differs in having the lengthened stripes of the shell raised into rows of tubercles. It is a native of the Indian seas, and arrives at a size at least equal to that of the common Paper-Nutilus.

PHALÆNA OCULATISSIMA.

CHARACTER GENERICUS.

Antennæ a basi ad apicem sensim attenuatæ.

Alæ (sedentis) sæpius deflexæ. (Volatu nocturno.)

CHARACTER SPECIFICUS, &c.

Phalæna oculatissima. P. (Bombyx) nivea, alis primoribus maculis ocellatis nigris, abdomine supra cæruleo flavoque vario.

Phalæna oculatissima. P. (Bombyx) elinguis, alis subreversis albis; primoribus thoraceque punctis ocellaribus numerosis inæqualibus nigris, dorso cæruleo flavoque variegato.

Abbot. N. Am. Ins. t. 69.

Bombyx ocularia.

Fabr. ins.

Phalænam perelegantem descripsimus, Georgiam, Carolinam, aliasque Americæ septentrionalis regiones incolentem. Depascitur larva folia cerasi sylvestris, helianthemis, aliaque ejusmodi. Depingitur *phalæna oculatissima* in splendido libro quem conscripsit Abbotus de insectis in America septentrionali generatis.



R. Woodcock Del. Sculp.

THE
GREAT LEOPARD ERMINE
MOTH.

GENERIC CHARACTER.

Antennæ setaceous, gradually lessening from base to tip.

Wings (when sitting) generally deflex. (Flight nocturnal.)

SPECIFIC CHARACTER, &c.

Snow-white Moth, with the upper wings marked by ocellated black spots, and the abdomen varied above with blue and yellow.

Cram. pl. 344. f. D. *et Suppl.*
pl. 41. f. 3.

The elegant Moth here represented is a native of Georgia, Carolina, and other parts of North America, where its caterpillar feeds principally on the leaves of the wild cherry, dwarf sun-flower, &c. It is figured in the splendid work of Mr. Abbot on the Insects of North America.

SYLVIA MINUTA.

CHARACTER GENERICUS.

Rostrum subulatum, rectum, tenue; mandibulis
subæqualibus.

Nares obovatæ, depressiusculæ.

Digitus exterior medio basi subtus connexus.

Cauda modica.

Lath. ind. orn.

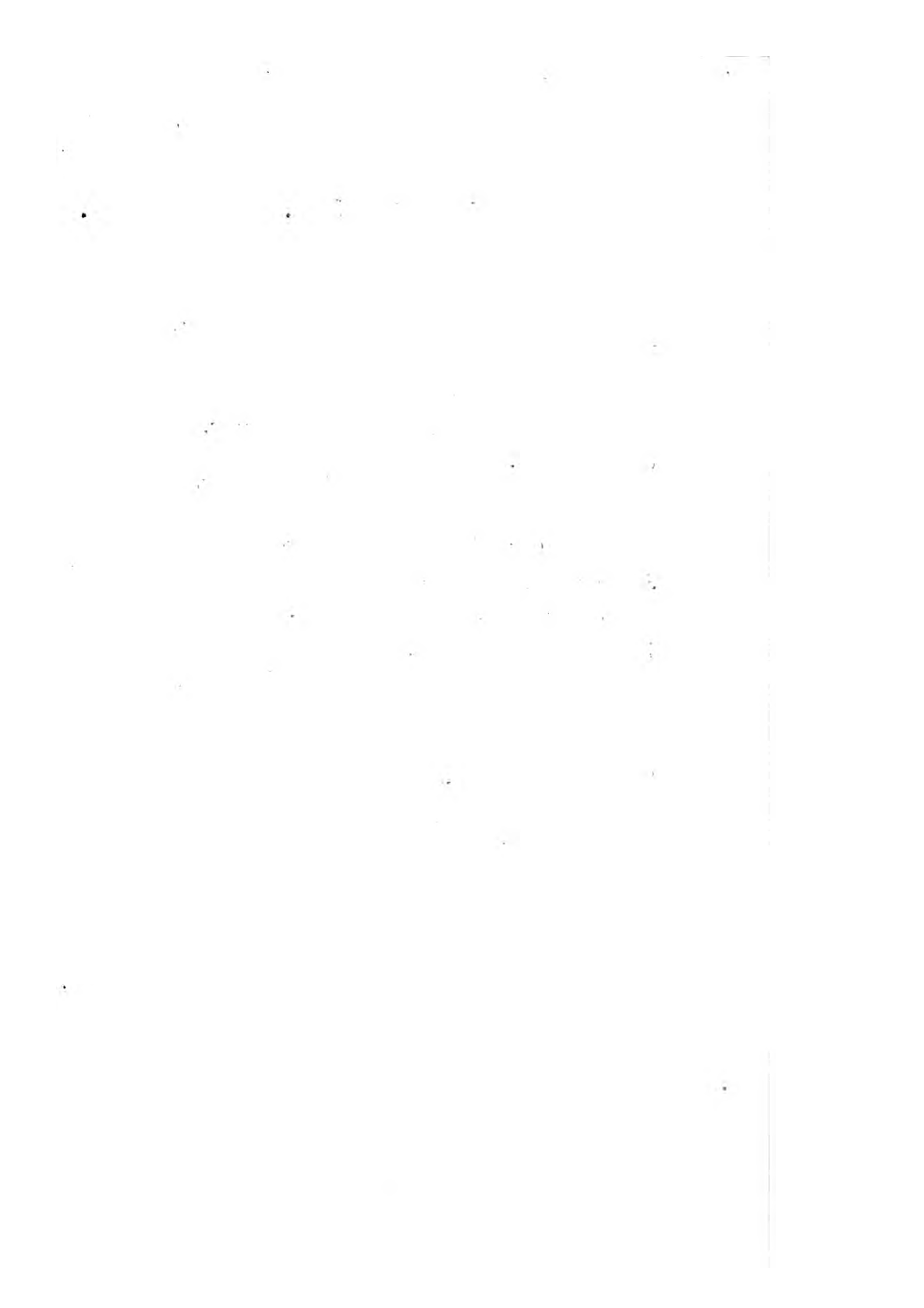
CHARACTER SPECIFICUS, &c.

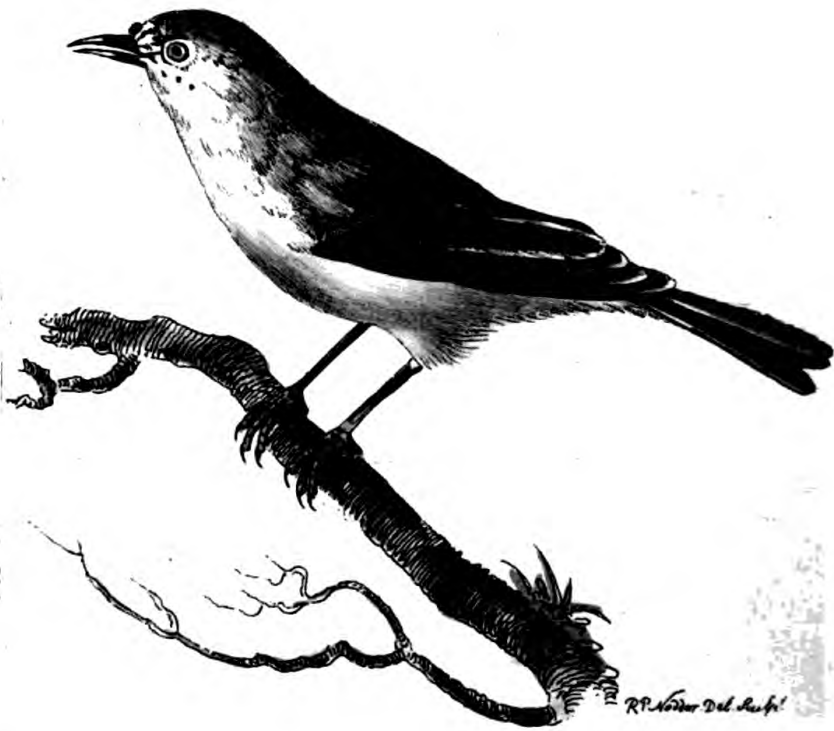
Sylvia olivaceo-cinerea, subtus flavicans, gula
albida, alis caudaque subfuscis.

Le Figuier Becque-fleur.

Levaill. ois. Afr. t. 134.

Perexiguam hanc speciem descripsit Levaillantus; a quo cognoscimus in Africa inferiore generari, vescique insectis quæ floribus insident, aliisque ejusmodi. Femina differt a mare coloribus paulo obscurioribus.





R.P. Anderson Del. Sculp.

THE
MINUTE WARBLER.

GENERIC CHARACTER.

Bill subulate, strait, slender; with nearly equal mandibles.

Nostrils obovate, slightly depressed.

Exterior toe connected towards the base with the middle one.

Tail, in general, of moderate length.

SPECIFIC CHARACTER, &c.

Olivaceous-grey Warbler, yellowish beneath, with whitish throat, and brownish wings and tail.

Le Figuier Becque-fleur.

Levaill. ois. Afr. pl. 134.

This very small species is described by Mons. Levaillant, who informs us that it inhabits the inferior parts of Africa, and feeds on minute insects which it collects from flowers, &c. The female differs in being rather more obscure in its colours.

PHALÆNA PROSERPINA.

CHARACTER GENERICUS.

Antennæ a basi ad apicem sensim attenuatæ.

Alæ (sedentis) sæpius deflexæ (volatu nocturno.)

CHARACTER SPECIFICUS, &c.

Phalæna (Attacus) pectinicornis, alis rotundatis
nigris, fascia alba; macula subocellari
nigra.

Smith. Abbot. N. Am. Ins. t. 50.

Phalæna Maja.

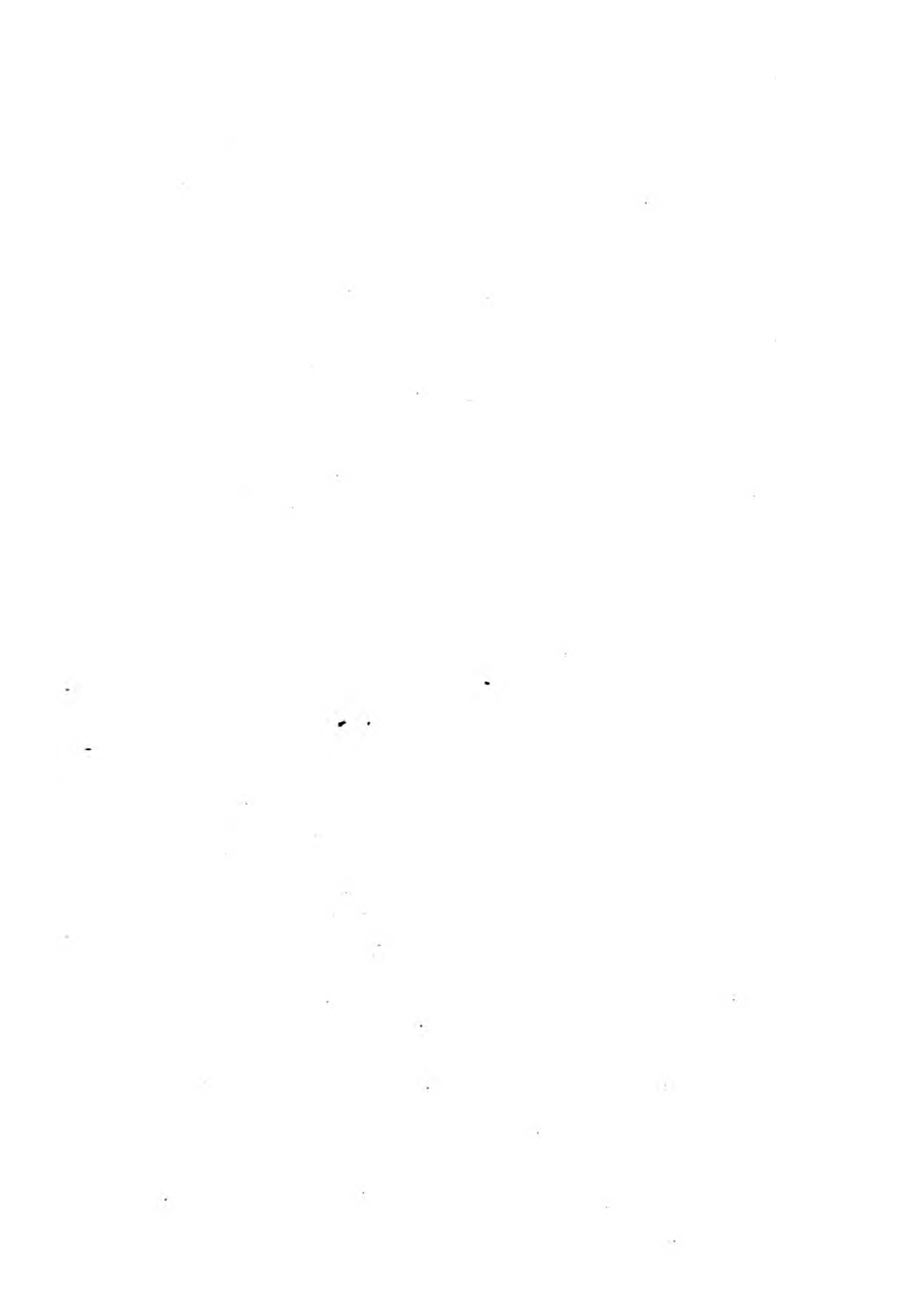
Drury ins. 2. t. 24. f. 3.

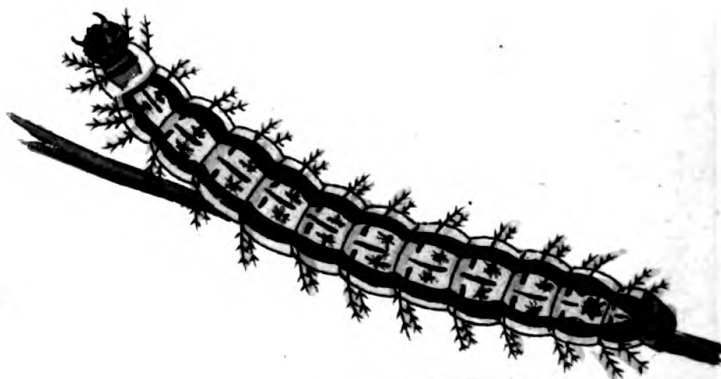
Bombyx Proserpina.

Fabr. ent. amend. 4. p. 419.

In America septentrionali, præcipue in Georgia et Virginia generatur Phalæna Proserpina, ubi larva ejus quercuum Americanarum folia depascitur.

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PROSERPINA.

GENERIC CHARACTER.

Antennæ setaceous, gradually lessening from base to tip.

Wings (when sitting) generally deflex. Flight nocturnal.

SPECIFIC CHARACTER, &c.

Moth with rounded black wings, with a white bar, and subocellated black spot.

Phalæna Proserpina. } *Abbots' N. Amer. insects,*
Black Emperor Moth. } pl. 50.

The Moth here represented is a native of North America, and particularly of Georgia and Virginia, where its larva feeds on the leaves of several species of American oak.

RANA MEPHITICA.

CHARACTER GENERICUS.

Corpus tetrapodum, ecaudatum, nudum.

Lin. Syst. Nat.

CHARACTER SPECIFICUS, &c.

Rana olivacea, fusco maculata, verrucis subrubentibus, linea dorsali sulphurea.

Gen. Zool. 3. p. 149.

Bufo terrestris foetidus.

Roes. Hist. Ran. t. 24.

In variis Europæ partibus generata rana mephitica si manu contrectetur, seu alio quocunque modo lacessatur, foetorem emittere dicitur teterrimum; eundem fere ac si allii succum cum fumo pulveris nitrati commiscueris.

Bufonem Anglicum *Natter-Jack* inducor ut credam ranæ hujusce esse varietatem, licet inodorus sit. Generatur rana mephitica eodem modo quo cæteri bufones; nec alijs est vivendi modus.

2.

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Dr. H. S. G. S. S.

THE
MEPHITIC TOAD.

GENERIC CHARACTER.

Body four-footed, without tail, and naked, or without any integument but the skin.

SPECIFIC CHARACTER, &c.

Olive Toad, spotted with brown, with reddish warts, and sulphur-coloured dorsal line.

Mephitic Toad.

Gen. Zool. 3. p. 149.

The present species of Toad is found in several parts of Europe, and is said to diffuse, on being handled, or otherwise irritated, an intolerably fetid odor, somewhat resembling that of a mixture of garlick and gunpowder. The toad called in our own country by the name of *Natter-Jack*, and which appears to be a variety of the present species, is not remarkable for any peculiar odor. In its manner of breeding and way of life, it resembles the rest of its tribe.

CYPRINUS CARPIO.

Var.

Macrolepidotus.

CHARACTER GENERICUS.

Os parvum, edentulum. *Dentes* gutturales.

Membr. branch. triradiata.

Pinnæ ventrales sæpius novemradiatæ.

CHARACTER SPECIFICUS, &c.

Cyprinus Carpio. *C. luteo-olivaceus*, pinna dorsali lata, radio tertio postice serrato.

Gen. Zool. 5. p. 189.

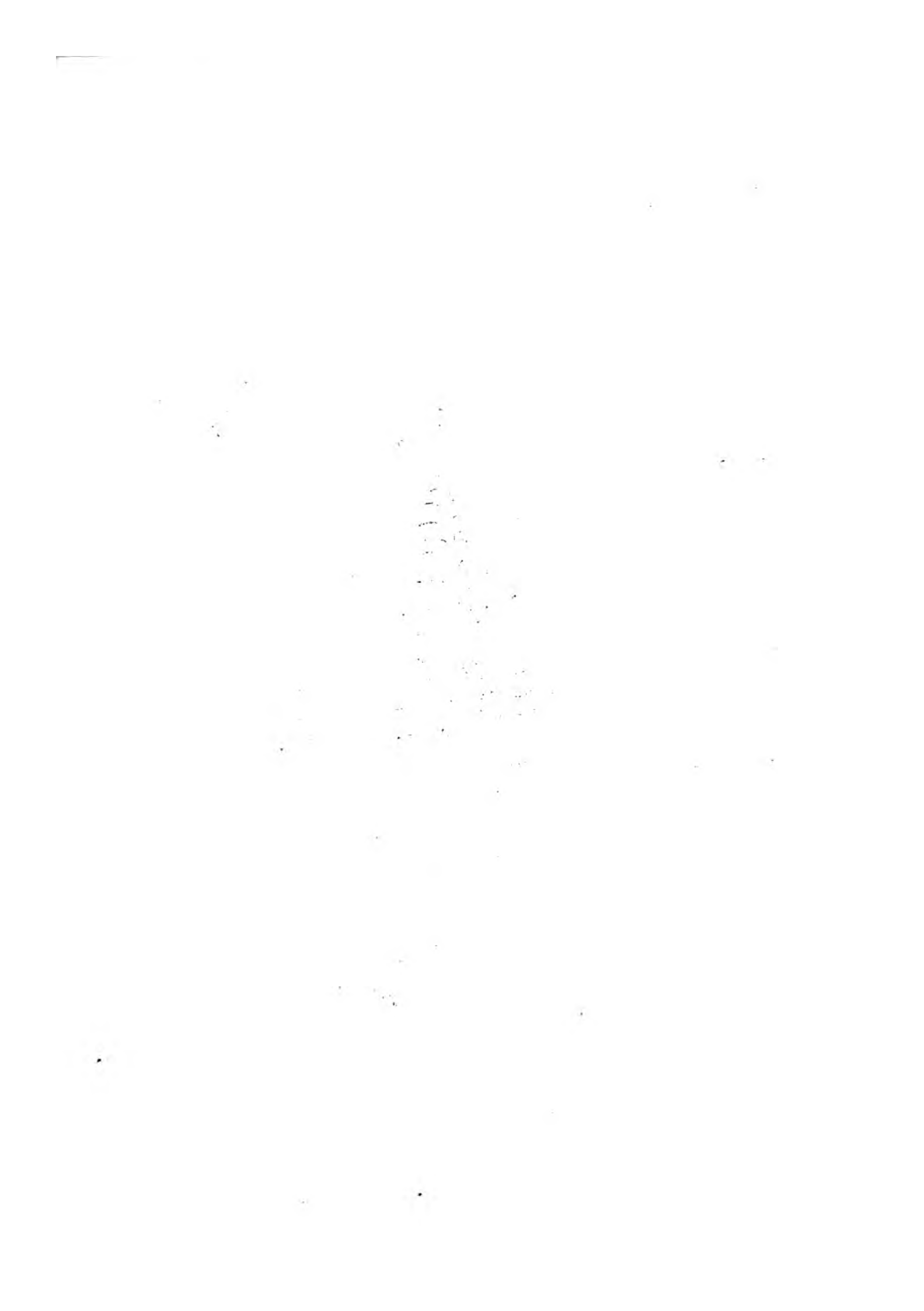
Var.

Cyprinus partim nudus, partim *macrolepidotus*.

Cyprinus Rex.

Bloch. ichth. 1. t. 17.

Per varias Germaniæ regiones spargitur huc illuc notabilis hæc varietas *Cyprini* communis. Hoc ei insigne est ad distinctionem, quod, cum in aliis corporis partibus insolita sit squamarum magnitudo, in aliis squamæ omnino nullæ sunt. Cætera *cyprino* *Carpioni* vulgari similis est, nisi quod crescere dicitur in majorem molem, et palato melius respondere.



THE
COMMON CARP.

Var.

Large-scaled.

GENERIC CHARACTER.

Mouth small and toothless: teeth in the throat.

Gill-Membrane three-rayed.

Ventral fins, in general, nine-rayed.

SPECIFIC CHARACTER, &c.

Yellowish-Olive Carp, with wide dorsal fin,
with the third ray serrated behind.

Gen. Zool. 5. p. 189.

Var.

Carp with the body partly naked, and partly
covered with very large scales.

Large-scaled Carp.

Gen. Zool. 5. p. 193.

This remarkable variety of the common Carp is found in several parts of Germany, and differs in having some parts of the body naked or scaleless, while the scales on the other parts are of a very unusual size. In other respects it perfectly resembles the common carp, but is said to grow to a larger size, and to be superior as an article of food.

PSITTACUS PARADISI.

CHARACTER GENERICUS.

Rostrum aduncum, mandibula superiore mobili,
cera instructa.

Nares in rostri basi.

Lingua plerisque carnosae, obtusae, integrae.

Pedes scansorii.

CHARACTER SPECIFICUS, &c.

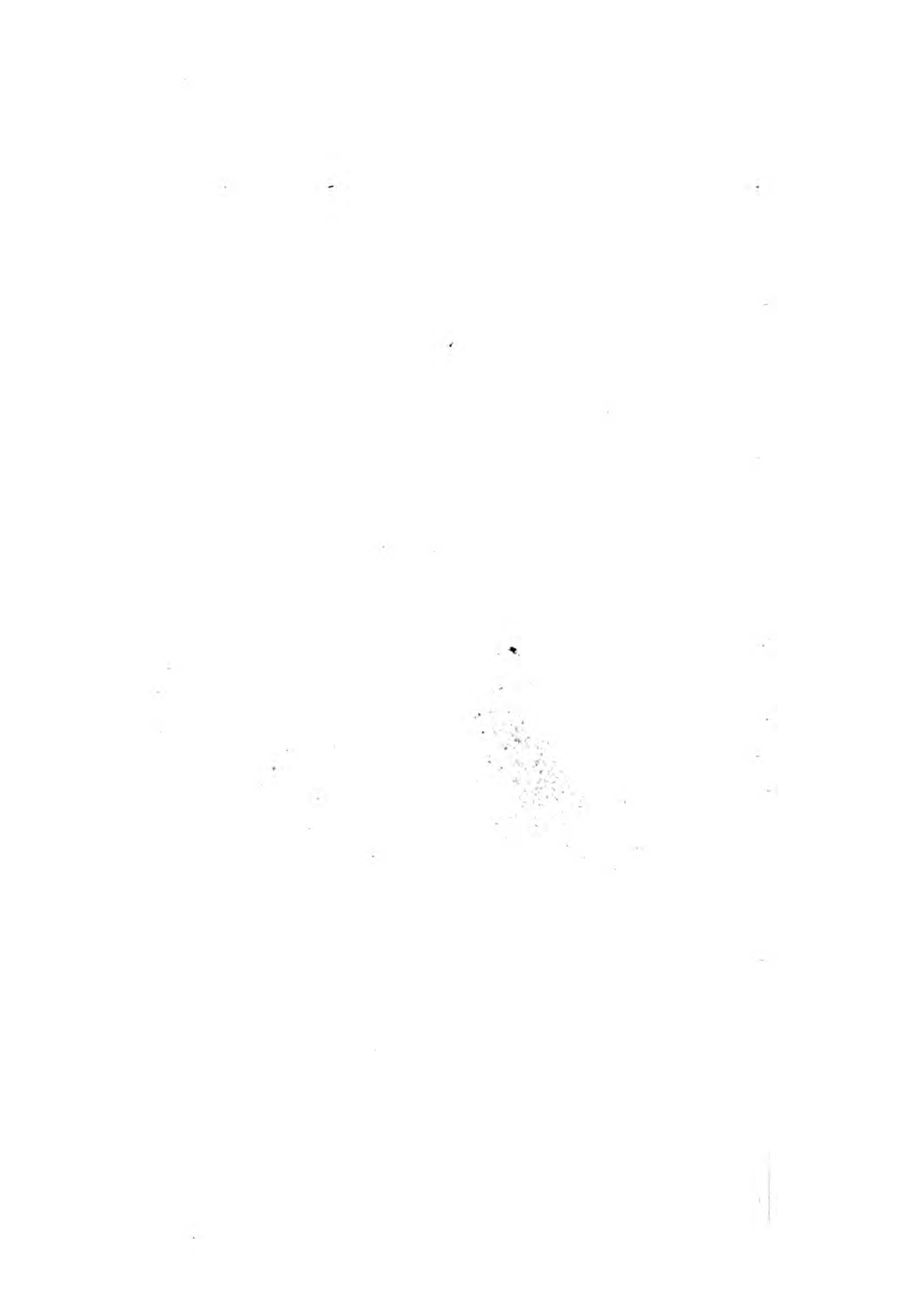
Psittacus flavus, marginibus pennarum rubro-aurantiis.

Gen. Zool. 8. p. 501.

Psittacus Paradisi? *P. brachyurus luteus*, gula ventre rectricumque basi rubris.

Lin. Syst. Nat.

Rarum hunc et venustum psittacum in insula Cuba generari creditum est. De quo tamen dubitat Levaillantus, existimatque varietatem esse psittaci Amazonici. Negat porro reperiri posse hodie hanc avem in insula Cuba.



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THE
PARADISE PARROT.

GENERIC CHARACTER.

Bill hooked, with the upper mandible move-
able, and generally furnished with a cere.
Nostrils in the base of the bill.
Tongue, in most species, fleshy, obtuse, entire.
Feet scansorial.

SPECIFIC CHARACTER, &c.

Yellow Parrot, with the feathers edged with
orange-red.

Gen. Zool. 8. p. 501.

Le Papagai de Paradis.

Buff. ois.

Perroquet de Cuba.

Pl. Enl. 336.

Perroquet jaune ecaillé de rouge.

Levaill. Perr. pl.137.

The rare and beautiful Parrot here represented is commonly supposed to be a native of the island of Cuba, a circumstance much questioned by Mons. Levaillant, who seems to hold it in doubt whether this supposed species be not rather a variety of the Amazon Parrot. Mons. Levaillant observes further, that no such bird is at present known in the island of Cuba.

SCOMBER SALIENS.

CHARACTER GENERICUS.

Corpus oblongum, læve, linea laterali interdum carinatum.

Pinnulæ sæpius supra infraque versus caudam.

CHARACTER SPECIFICUS, &c.

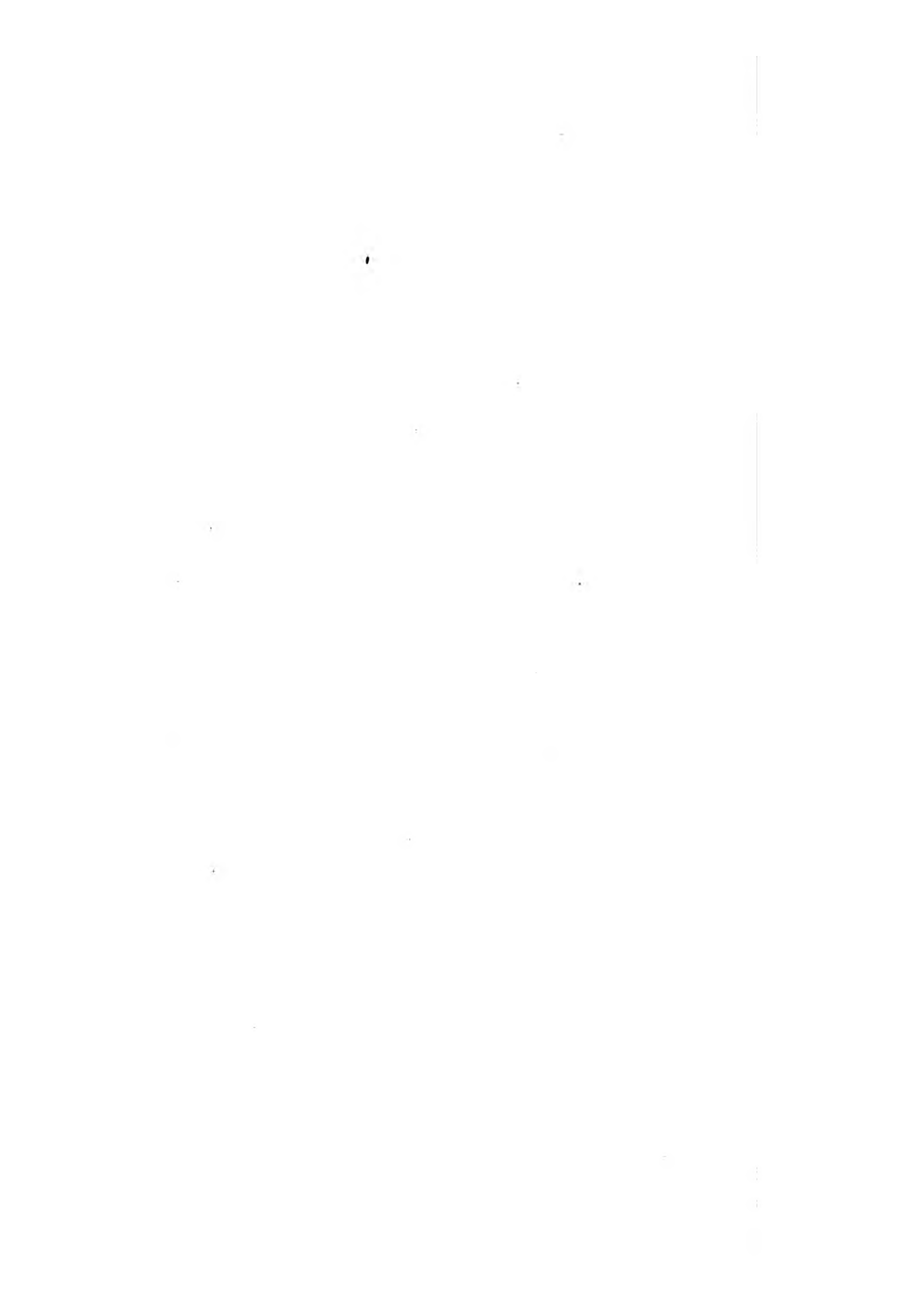
Scomber argenteus, dorso viridi-cæruleo, spinis quatuor armato, pinnulis supra infraque octo.

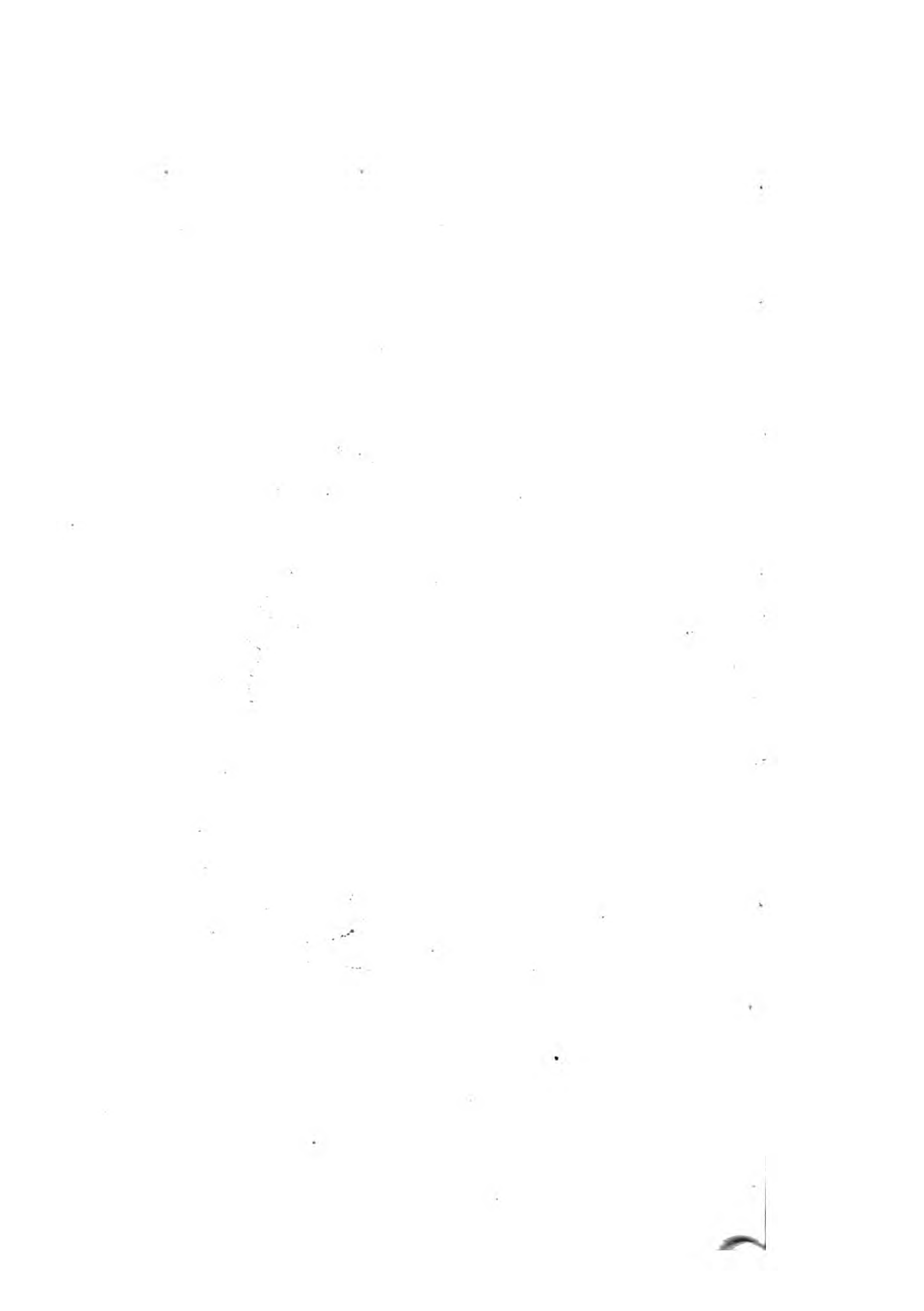
Gen. Zool. 4. p. 585.

Scomber saliens. S. aculeis quatuor dorsalibus distinctis.

Bloch ichth. t. 335.

Maria incolit Americana *Scomber saliens*, magnitudine quasi *Scombri communis Europæi*.





THE
SALIENT MACKREL.

GENERIC CHARACTER.

Body oblong, smooth; sometimes carinated by the lateral line.

Finlets (in most species) above and below towards the tail.

SPECIFIC CHARACTER, &c.

Silvery Mackrel, with blue-green back armed with four spines, and eight pinnules above and below.

Le Sauteur.

Bloch ichtth. pl. 335.

This species is an inhabitant of the American seas, and is of the size of the common European Mackrel.

PAPILIO TROILUS.

CHARACTER GENERICUS.

Antennæ apicem versus crassiores, sæpius clavato-capitatæ.

Alæ (sedentis) erectæ sursumque conniventes.
(Volatu diurno.)

Lin. Syst. Nat.

CHARACTER SPECIFICUS, &c.

Papilio alis caudatis nigris, maculis marginalibus flavis; posticis fascia interjecta cærulea maculaque ocellata fulva.

Papilio alis caudatis nigris; primoribus punctis marginalibus pallidis; posticis supra pallido subtus fulvo maculatis, angulo ani fulvo puncto nigro.

Abbot. Ins. Amer. t. 1.

Papilio Troilus. P. alis caudatis nigris; primoribus punctis marginalibus pallidis; posticis subtus maculis fulvis.

Lin. Syst. Nat. p. 746.

Georgiam et Virginiam in America Septentrionali incolit Papilio Troilus. Larva foeniculi rutæque folia depascitur.



Drawn, Engraved & Published by R. P. Heiser.

TROILUS.

GENERIC CHARACTER.

Antennæ commonly thickening towards the end into a clavated tip.

Wings (when at rest) meeting upwards. Flight diurnal.

SPECIFIC CHARACTER, &c.

Butterfly with black tailed wings marked by marginal yellow spots; the lower pair by an interjected blue band and ocellated fulvous spot.

Papilio Troilus.

Lin. Syst. Nat.

Drury Ins. 1. pl. 11. f. 2. 3. 5.

Abbot Ins. Amer. pl. 1.

The Butterfly represented on the present plate is an inhabitant of Georgia and Virginia, where its caterpillar feeds on the leaves of fennel and rue.

MADREPORA ABDITA.

CHARACTER GENERICUS.

Animal Medusa.

Corallium cavitatibus lamelloso-stellatis.

Lin. Syst. Nat.

CHARACTER SPECIFICUS, &c.

Madrepora subconglomerata, anfractibus stelliformibus angulatis obconicis, ambulacris simplicibus, lamellis angustis crenato-denticulatis.

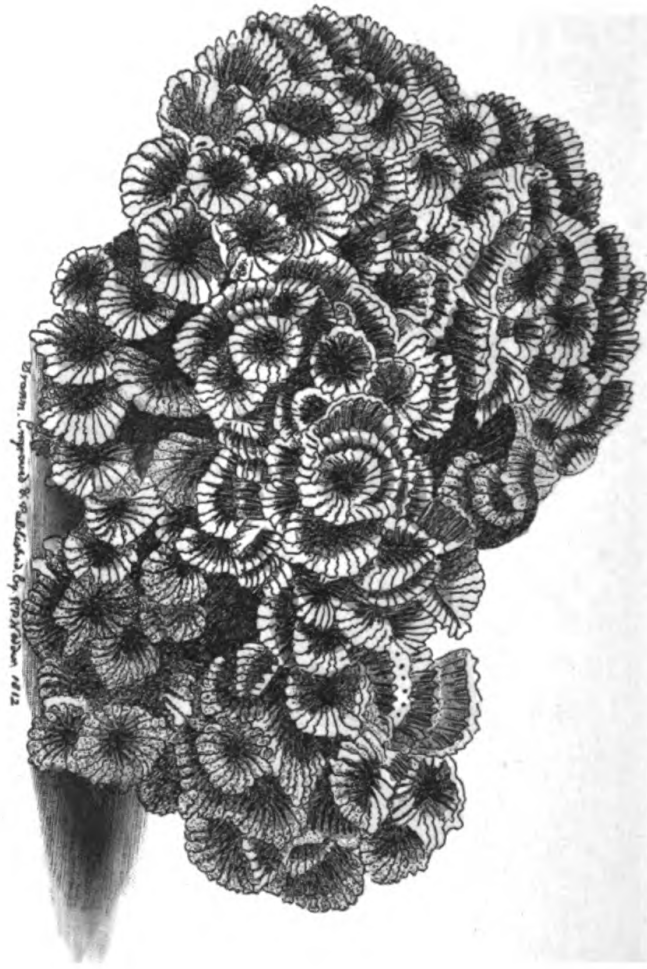
Soland. et Ell. zooph. p. 162.
t. 50. f. 2.

Madrepora abdita.

Lin. Syst. Nat. Gmel.

Circa rupes maris Indici conspicitur Madrepora abdita, cujus veram magnitudinem cernere est in tabula.





NARROW-GILLED MADREPORE.

GENERIC CHARACTER.

Animal allied to a Medusa.

Coral marked by lamellar star-shaped Cavities.

SPECIFIC CHARACTER, &c.

Subconglomerate Madreporite, with angular ob-
conic foliations, simple undulations, and
narrow gills with crenulated teeth.

The present species of Madreporite is found about the
rocks of the Indian seas, and is represented on the
plate in its natural size.

ANAS HISTRIONICA.

CHARACTER GENERICUS.

Rostrum lamelloso-dentatum, convexum, obtusum.

Lingua ciliata, obtusa.

Lin. Syst. Nat.

CHARACTER SPECIFICUS, &c.

Anas subnigra, pectore dorsoque griseo-cæruleis, capite albo ferrugineoque striato, collari fasciaque pectorali albis.

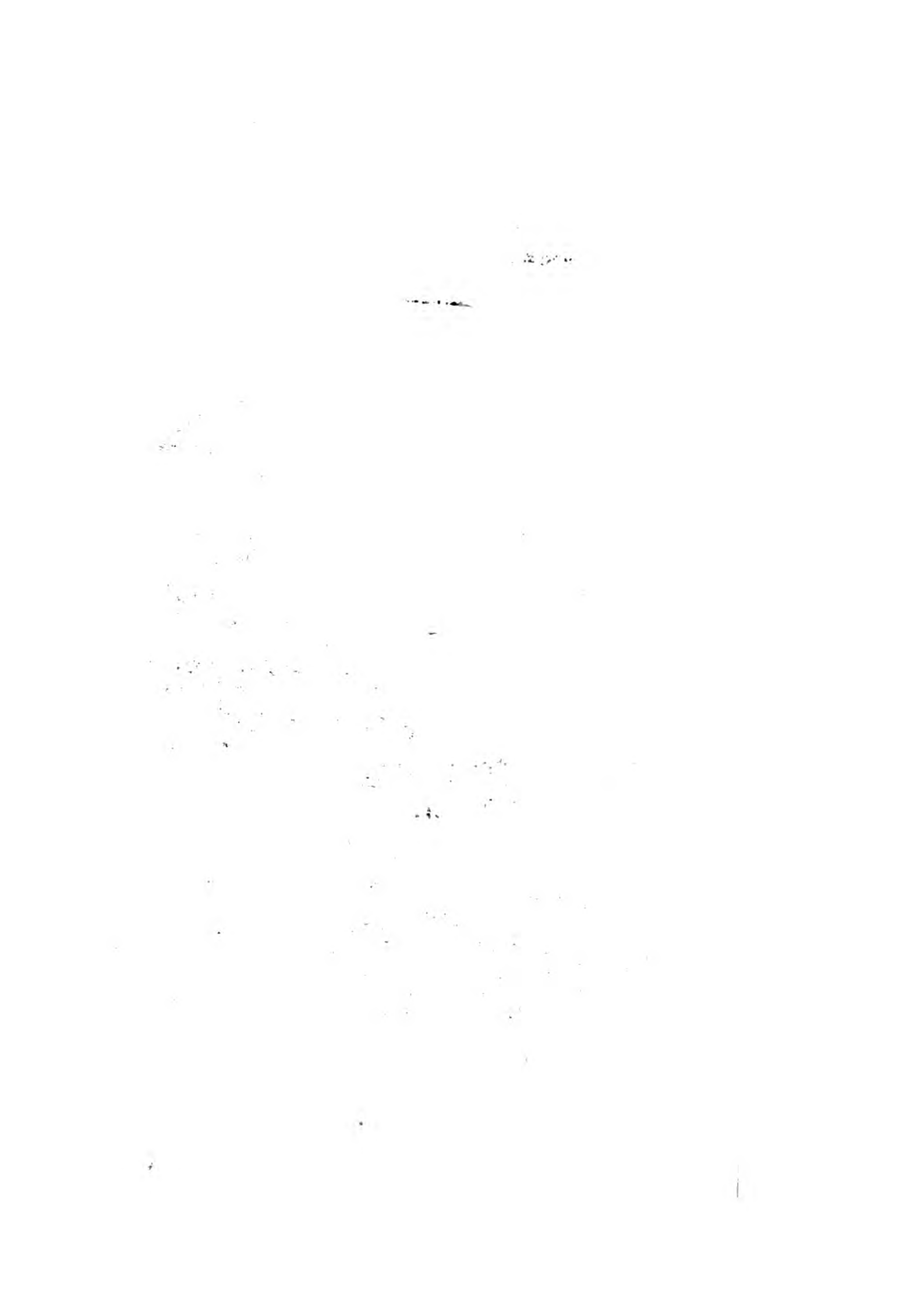
Anas fusca albo cæruleoque varia, auribus, temporibus linea gemina, collari fasciaque pectorali albis.

Lin. Syst. Nat.

Lath. ind. orn.

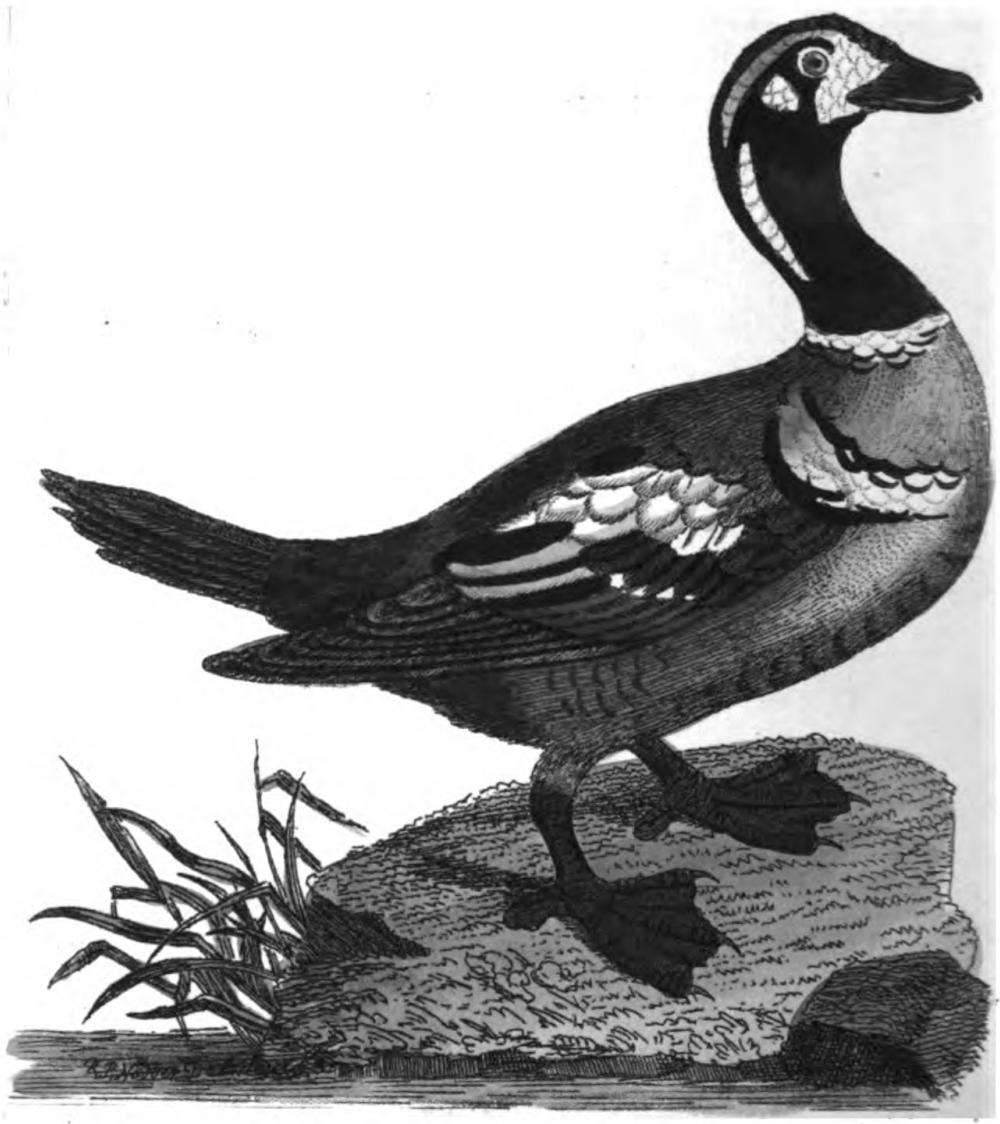
Americam septentrionalem præcipue incolit *Anas histrionica*; in Europæ partibus borealibus interdum conspecta. Magnitudo ejus est quasi *Anatis vulgaris* Europææ sive *Boschadis* Linnæi. Femina mare minor colore fere toto fusco, macula tantum auriculari alba differt.





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THE
HARLEQUIN DUCK.

GENERIC CHARACTER.

Bill broad and flattened ; the edges marked with sharp lamellæ.

Tongue broad, and ciliated at the edges.

SPECIFIC CHARACTER, &c.

Blackish Duck, with grey-blue breast and back, head striped with white and ferruginous, neck marked by a white collar, and the breast on each side by a white bar.

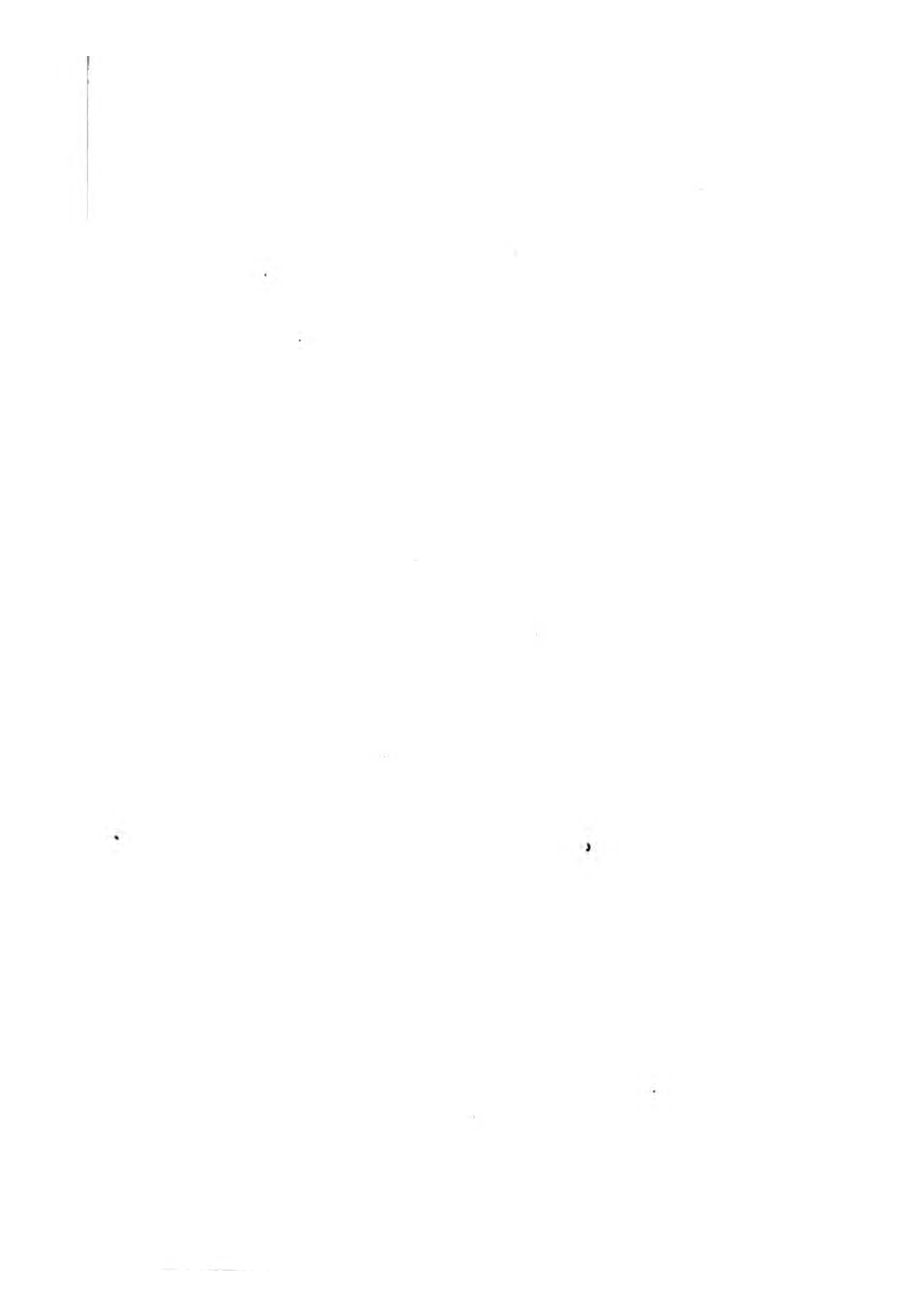
Harlequin Duck.

Lath. Syn.

Dusky and spotted Duck.

Edw. pl. 99.

The Harlequin Duck is principally an inhabitant of North America, but is sometimes seen in the North of Europe. Its size is nearly that of the Common European Duck. The female, which is smaller than the male, differs in being almost entirely brown, with a white spot on each side the head.



PAPILIO ARCHIPPUS.

CHARACTER GENERICUS.

Antennæ apicem versus crassiores, sæpius clavato-capitatæ.

Alæ (sedentis) erectæ sursumque conniventes.
(Volatu diurno.)

Lin. Syst. Nat.

CHARACTER SPECIFICUS, &c.

Papilio (Danaus) alis repandis fulvis, venis margineque albo-punctato nigris; primoribus apice maculis fulvis.

Abbot. Ins. Amer. t. 6.

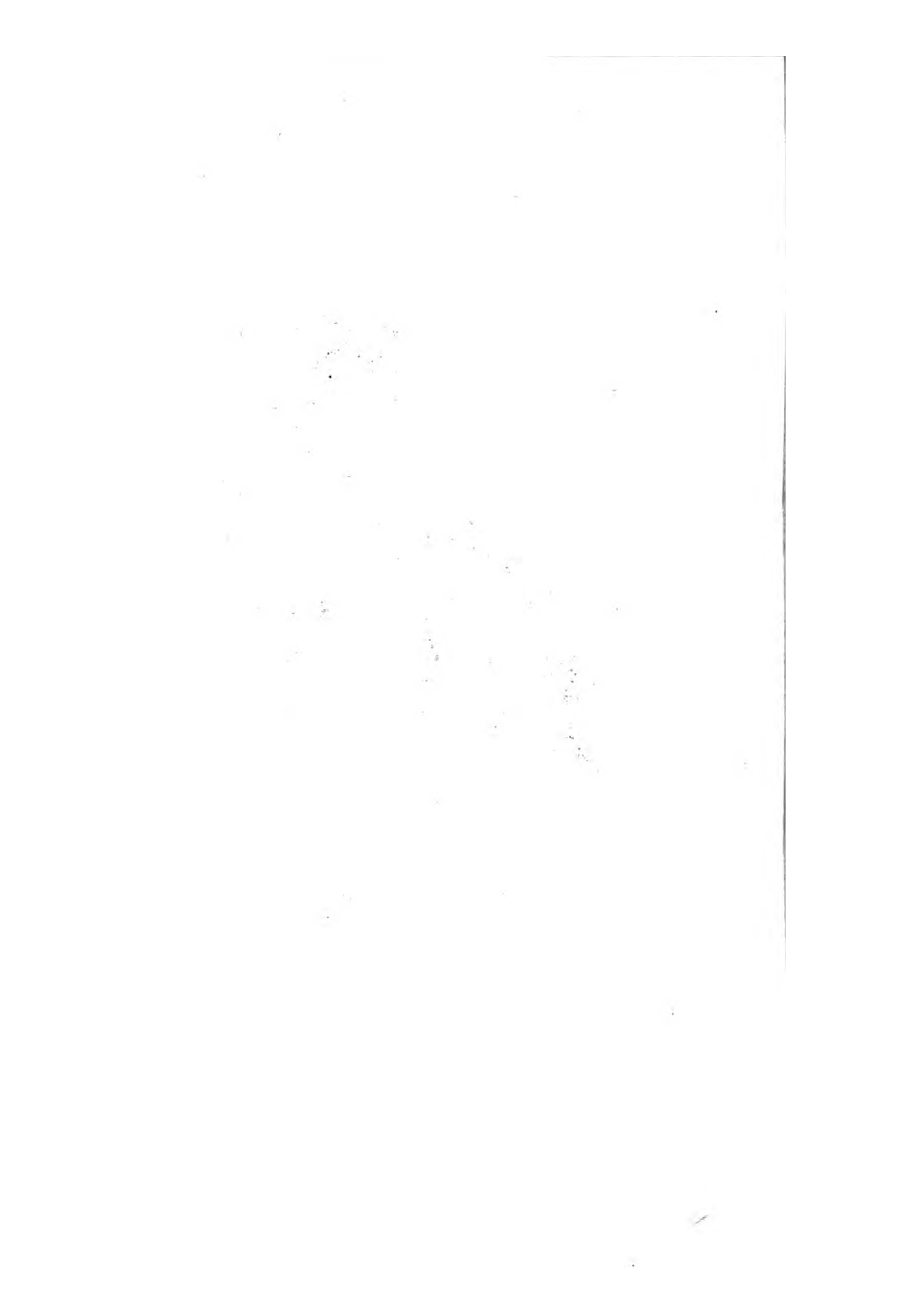
P. Archippus.

Fabr. ent. emend. 4. p. 49.

P. Plexippus.

Cramer, t. 206. f. E. F.

Virginiam et Carolinam incolit Papilio Archippus, cujus larva folia *Asclepiadis Curassavicæ* præcipue depascitur.



1005



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ARCHIPPUS.

GENERIC CHARACTER.

Antennæ thickening towards the end, and generally terminating in a clavated tip.

Wings (when at rest) meeting upwards. (Flight diurnal.)

SPECIFIC CHARACTER, &c.

Butterfly with fulvous wings marked by black veins, and by a black border spotted with white, with a few fulvous spots at the tips of the upper pair.

Papilio Archippus.

Fabr. ent. emend. 4. p. 49.

This elegant insect is a native of Virginia and Carolina. The caterpillar feeds chiefly on the leaves of the *Asclepias Curassavica*.

SCIÆNA FORMOSA.

CHARACTER GENERICUS.

Caput squamosum.

Pinnæ dorsales duæ, in fossula recondendæ.

Membr. branch. radiis sex.

CHARACTER SPECIFICUS, &c.

Sciæna? cærulea lineis numerosis longitudinalibus luteis.

Perca cauda rotundata, spinis dorsalibus novem, corpore oblongo vittato, aculeis tribus ad marginem operculi posterioris.

Russ. Pisc. Ind. t. 129.

Ráhtee Bontoo.

Maria incolit Indica Siæna formosa, magnitudine quasi percæ communis sive fluviatilis Linnæi.



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R. S. Edwards

THE
YELLOW-STRIPED SCIÆNA.

GENERIC CHARACTER.

Head scaly.

Dorsal fins two, seated in a furrow, into which they may occasionally be withdrawn.

Gill-Membrane six-rayed.

SPECIFIC CHARACTER, &c.

Blue Sciæna ? marked by numerous longitudinal deep-yellow stripes.

Rahtee Bontoo.

Russell's Indian Fishes, pl. 29.

This fish is an inhabitant of the Indian seas, and is nearly of the size of the common European Perch.

SERTULARIA OPERCULATA.

CHARACTER GENERICUS.

Animal crescens plantæ habitu.

Stirps emittens e cellulis vel denticulis calyciformibus hydras.

Lin. Syst. Nat. Gmel.

CHARACTER SPECIFICUS, &c.

Sertularia denticulis oppositis mucronatis erectiusculis, ovariis obovatis operculatis, ramis alternis.

Lin. Syst. Nat.

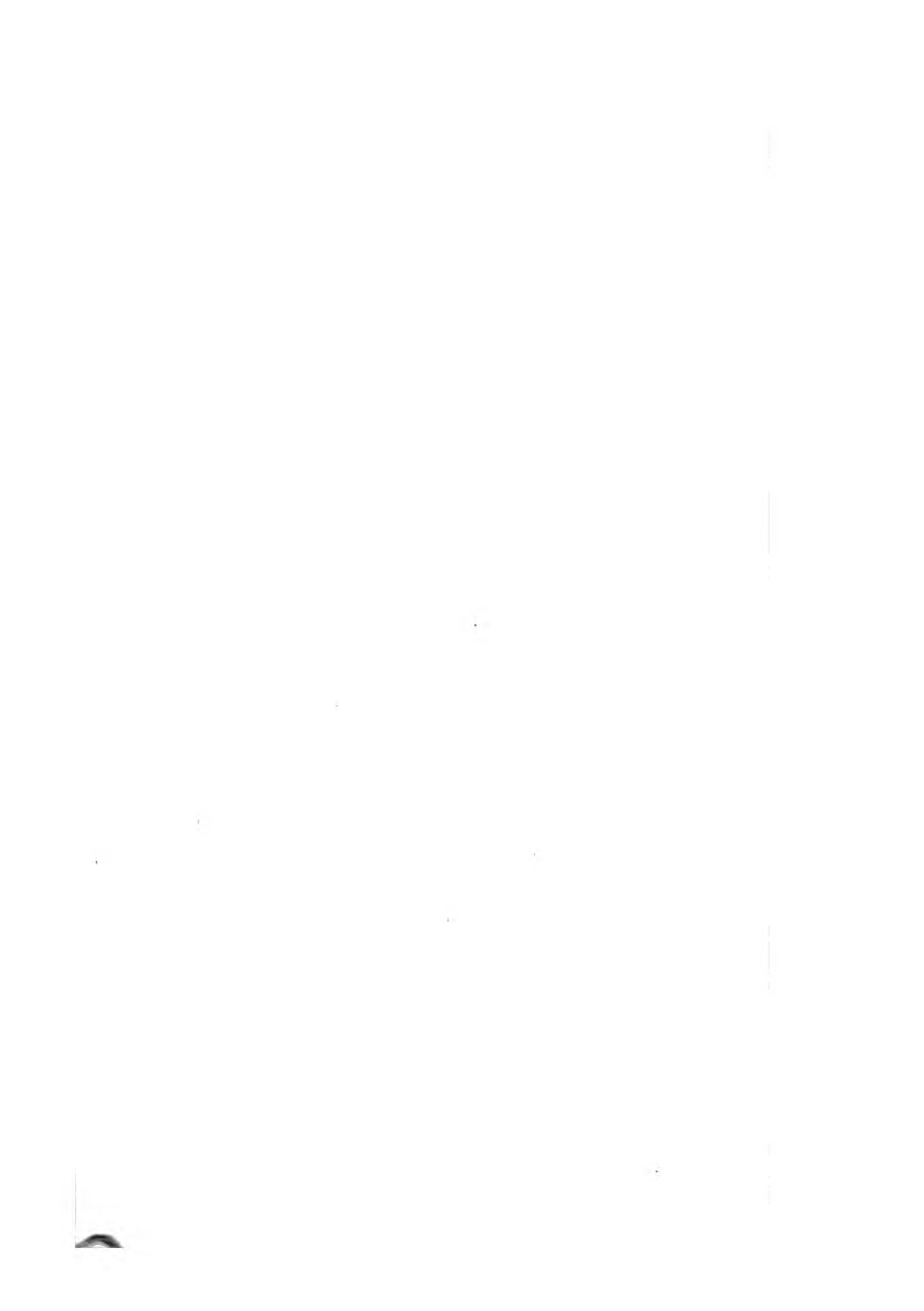
Soland. et Ell. Zooph.

Corallina muscosa denticulata procumbens, caule tenuissimo, denticellis ex adverso sitis.

Ell. corall. p. 8. t. 3.

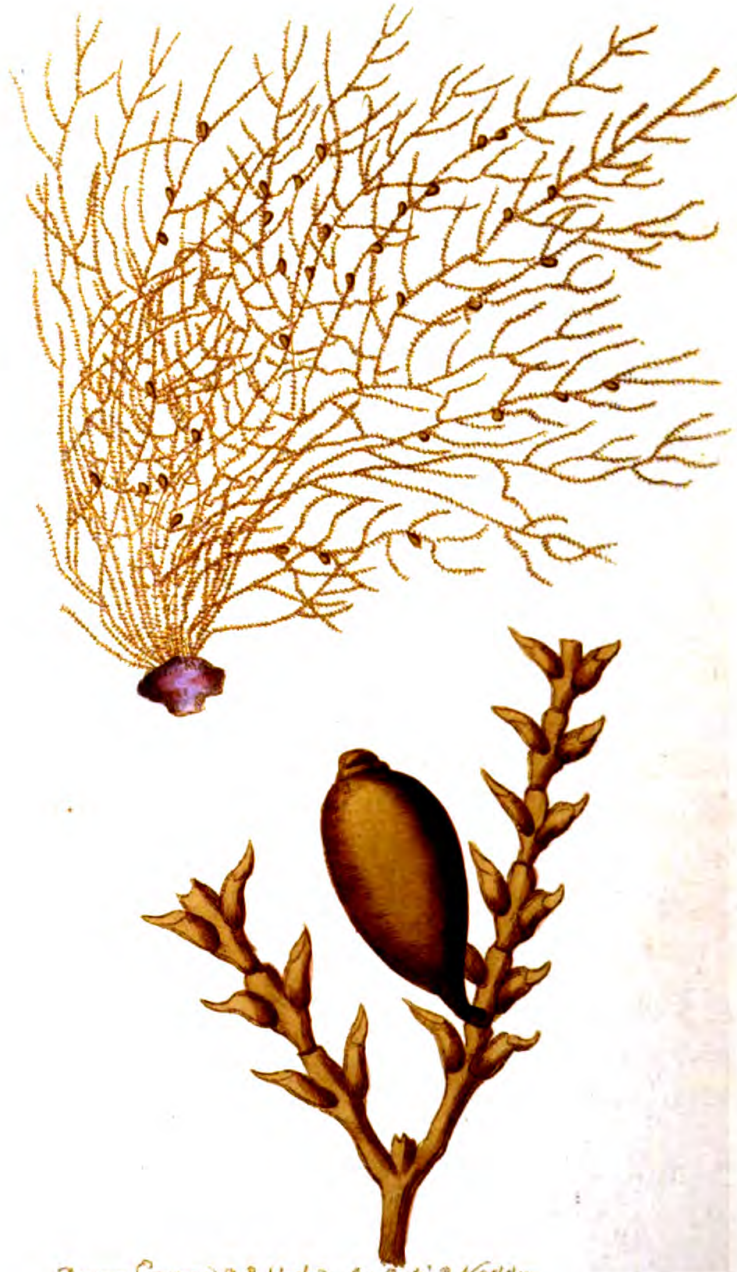
Ray syn. p. 36. No. 13.

Circa litora Britannica satis frequens conspicitur Sertularia operculata, rupibus, ostrearum testis, aliisque marinis adhærens.





1002



Corallium Engraved & Published by Ruth P. Nodder

THE
OPERCULATED SERTULARIA.

GENERIC CHARACTER.

Animal growing with the appearance of a
plant.

Stem emitting Polypes from calycular cells or
denticles.

SPECIFIC CHARACTER, &c.

Sertularia with opposite suberect mucronated
denticulations, obovate operculated ova-
ries, and alternate branches.

Sea-Hair.

Ell. corall. p. 8. pl. 3.

The present species of Sertularia is by no means
uncommon on several of the British coasts, adher-
ing to rocks, oyster shells, and other marine sub-
stances.

PARRA JACANA.

CHARACTER GENERICUS.

Rostrum acutum, ad apicem tumidiusculum,
basi carunculatum.

Nares subovatae in medio rostri.

Alulae spinosae.

Pedes tetradactyli, fissi; digitis et unguibus rec-
tis, longissimis.

Lath. ind. orn.

CHARACTER SPECIFICUS, &c.

Parra castaneo-purpurea, capite colloque nigris,
remigibus olivaceo-viridibus.

Parra Jacana. *P.* unguibus posticis longissi-
mis, pedibus viridescentibus.

Lin. Syst. Nat.

Varias Americae meridionalis regiones incolit *Parra*
Jacana, magnitudine quasi *Tringa Vanelli*.



1009



THE
CHESNUT JACANA.

GENERIC CHARACTER.

Bill sharp, carunculated at the base, and rather tumid at the tip.

Nostrils subovate, situated in the middle of the bill.

Alulets spined.

Feet with very long toes and claws.

SPECIFIC CHARACTER, &c.

Purple-chesnut Jacana, with black head and neck, and olive-green quill-feathers.

Spur-winged Water-Hen.

Edw. pl. 357.

Le Jacana.

Buff. ois. 8. pl. 16.

Pl. Enl. 322.

Chesnut Jacana.

Lath. syn. 3. p. 241.

This bird is a native of several parts of South America, and is about the size of a Common Lapwing.



PAPILIO PHILENOR.

CHARACTER GENERICUS.

Antennæ apicem versus crassiores, sæpius clavato-capitatae.

Alæ (sedentis) erectæ sursumque conniventes.
(Volatu diurno.)

Lin. Syst. Nat.

CHARACTER SPECIFICUS, &c.

Papilio alis caudatis nigris; posticis virescenti-nitidis; subtus maculis septem rubris subocellaribus, basi puncto lutescente.

SMITH, *Abbot Ins. Amer.* t. 3.

Pap. Astenous.

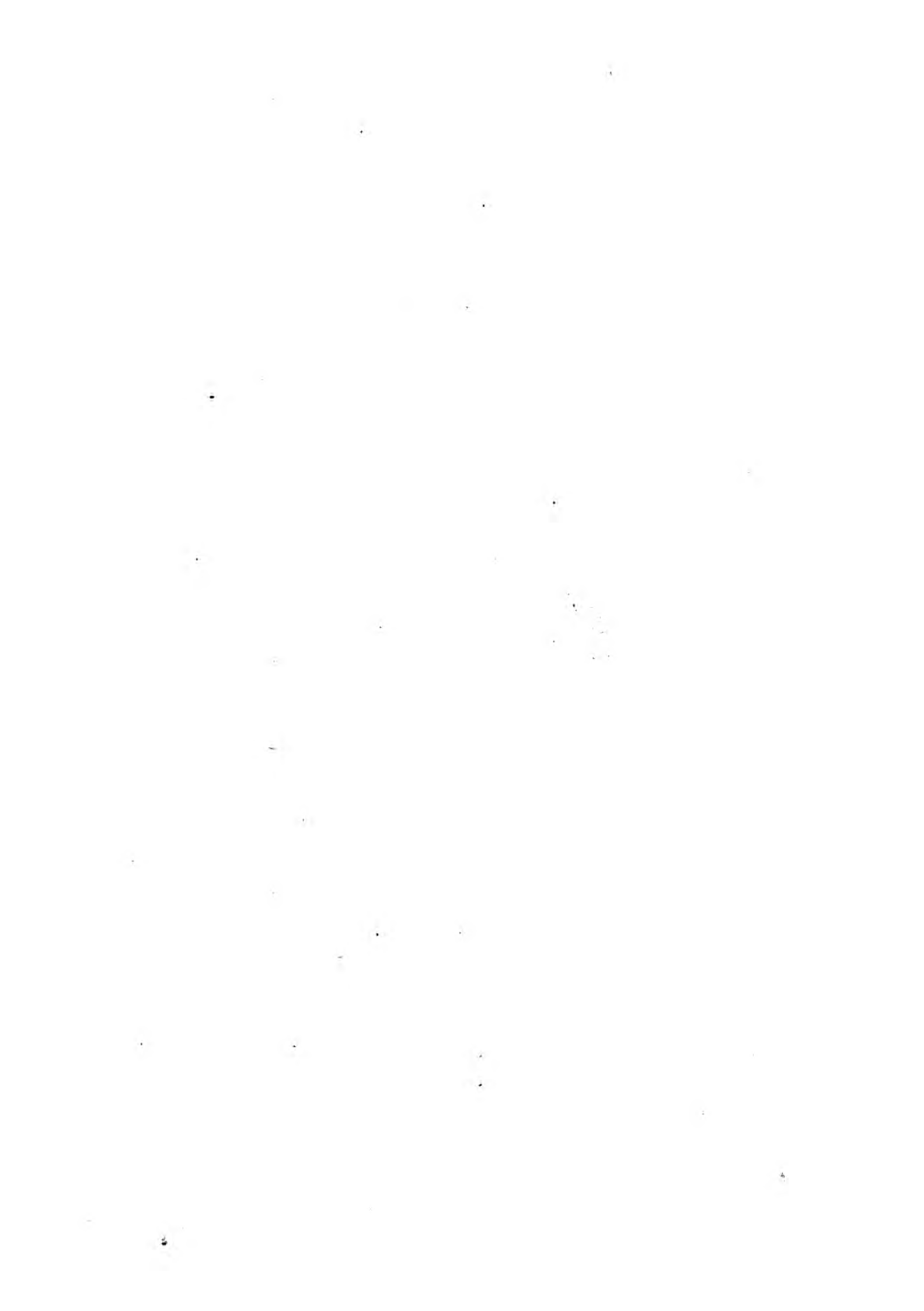
Drury Ins. 1. t. 11. f. 1. 4.

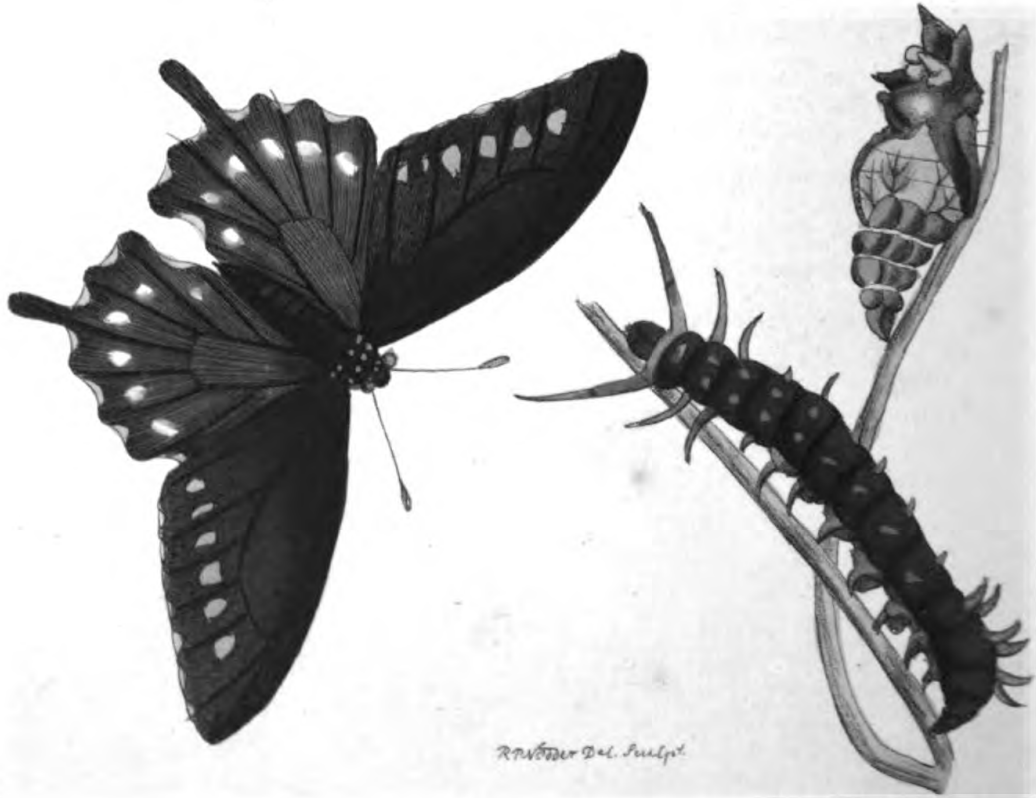
Cramer, t. 208. f. A. B.

Pap. Philenor.

Lin. Mantiss. p. 535.

Virginiam incolit Papilio Philenor, cujus larva folia *Aristolochiæ* *Serpentaria* dictæ depascitur.





PHILENOR.

GENERIC CHARACTER.

Antennæ thickening towards the end, and generally terminating in a clavated tip.

Wings (when at rest) meeting upwards. Flight diurnal.

SPECIFIC CHARACTER, &c.

Butterfly with black, tailed wings; the lower pair glossed with green, and marked beneath with seven subocellated red spots, and a yellowish spot at the base.

Philenor.

Abbot's Amer. Ins. pl. 3.

The present species is a native of Virginia. Its caterpillar feeds on the leaves of the *Aristolochia Serpentaria*, or Virginian Snakeroot.

STROMBUS LAMBIS.

CHARACTER GENERICUS.

Animal Limax.

Testa univalvis, spiralis, latere ampliata.

Apertura labro sæpius dilatato, desinens in canalem sinistrum.

Lin. Syst. Nat. p. 1207.

CHARACTER SPECIFICUS, &c.

Strombus testa albida fusco varia, labro heptadactylo, digitis rectiusculis, fauce lævi subrosea.

Strombus Lambis. S. testæ labro heptadactylo, digitis rectiusculis, fauce lævi.

Lin. Syst. Nat. p. 1208.

Lambis.

Argenville conch. t. 17. f. F.

Cornuta.

Rumph. mus. t. 35. f. E. F.

Maria incolit Indica Strombus Lambis, interdum major quam in tabula depingitur.

Mathematical Analysis

Mathematical analysis is a branch of mathematics that deals with the study of functions, limits, and derivatives. It is a fundamental part of calculus and is used in many areas of science and engineering.

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R.P. Nodder Del. Sculp.

THE
SEVEN-CLAWED STROMBUS.

GENERIC CHARACTER.

Animal resembling a Limax.

Shell univalve, spiral, enlarged on one side.

Aperture generally with a dilated lip, ending in a channel towards the left.

SPECIFIC CHARACTER, &c.

Strombus with whitish shell varied with brown, seven-clawed lip with straitish claws, and smooth subrosaceous mouth.

Martini 3. pl. 86. f. 855.

Seba 3. pl. 82. f. 2. 3. 5. 16. 17. 20.

Knorr Vergn. 5. t. 4. f. 3.

This shell is a native of the Indian seas, and sometimes arrives at a larger size than represented on the plate.

LOPHIUS COCINSINENSIS.

CHARACTER GENERICUS.

Caput depressum.

Dentes plurimi, acuti. *Lingua* dentibus armata.

Corpus crassum.

Pinnæ pectorales brachiatae.

CHARACTER SPECIFICUS.

Lophius subflavescens fusco varius, ore cirroso,
pinnis pectoralibus elongatis.

In maribus Indicis generatur *Lophius* cujus naturalem magnitudinem ostendit tabula. Detectus est prope sinum *Turon* in ora *Cocinsinensi*: adhæserat enim carni salitæ, nautis, sicut mos est, ad quoddam tempus in undis demersæ.

Viventem hunc *Lophium* delineavit vir ingeniosus *Gulielmus Alexander*, unus e curatoribus *Musei Britannici*, quique *Dominum Dominum Macartney* in itinere *Sinensi* comitatus est. Istius ad archetypi similitudinem iconem nostram depingi curavimus.



10/2

THE
COCHINCHINA LOPHIUS.

GENERIC CHARACTER.

Head depressed.

Teeth numerous, sharp: tongue armed with teeth.

Body thick.

Pectoral fins brachiated.

SPECIFIC CHARACTER.

Pale yellowish Lophius, with brown variegations, cirrated mouth, and elongated pectoral fins.

The species of Lophius here represented in its natural size, and which appears to be an inhabitant of the Indian seas, was observed near the bay of Turon, on the coast of Cochinchina, adhering to a piece of salted meat, which, according to the usual custom of sailors, had been lowered for some time in the water. The specimen figured on the annexed plate, is copied from the original drawing of the ingenious Mr. Alexander of the British Museum, who accompanied the voyage of Lord Macartney to China.



TURDUS AUSTRALASIÆ.

CHARACTER GENERICUS.

Rostrum tereti-cultratum, mandibula superiore
apice deflexo, emarginato.

Nares nudæ, superne membranula semitectæ.

Faux ciliata.

Lingua lacero-emarginata.

CHARACTER SPECIFICUS, &c.

Turdus flavus, gula pectore alis caudaque
nigris.

Le Merle jaune huppé.

Levaill. Ois. Afr. t. 117.

Australasiam incolit hæc avis, magnitudine quasi
turdi majoris vulgaris sive viscivori Linnæi.





R.P. Nodder "Bal. Sculpt."

AUSTRALASIAN THRUSH.

GENERIC CHARACTER.

Bill strait, obtusely carinated at the top, bending a little at the point, and slightly notched near the end of the upper mandible.

Nostrils oval and naked.

Tongue slightly jagged at the end.

SPECIFIC CHARACTER, &c.

Yellow Thrush, with black throat, breast, wings, and tail.

Le Merle jaune huppé.

Levaill. Ois. Afr. pl. 117.

This bird is a native of Australasia, and is about the size of the common great or Missel Thrush.

PHALÆNA PAPILIONARIA.

CHARACTER GENERICUS.

Antennæ setaceæ, a basi ad apicem sensim attenuatæ.

Alæ (sedentis) sæpius deflexæ. (Volatu nocturno.)

Lin. Syst. Nat.

CHARACTER SPECIFICUS, &c.

Phalæna (geometra) pectinicornis, alis omnibus viridibus subrepandis, striga sesquialtera pallida.

Lin. Syst. Nat.

Roes. 4. t. 18. f. 3.

Folia betulæ et genistæ præcipue depascitur larva elegantis hujus insecti. In chrysalidem mense Junio convertitur, e qua mense Julio erumpit ipsa phalæna.

10.7



THE
LARGE EMERALD MOTH.

GENERIC CHARACTER.

Antennæ setaceous, decreasing in size from base to point.

Wings (when at rest) generally deflected.

Flight nocturnal.

SPECIFIC CHARACTER, &c.

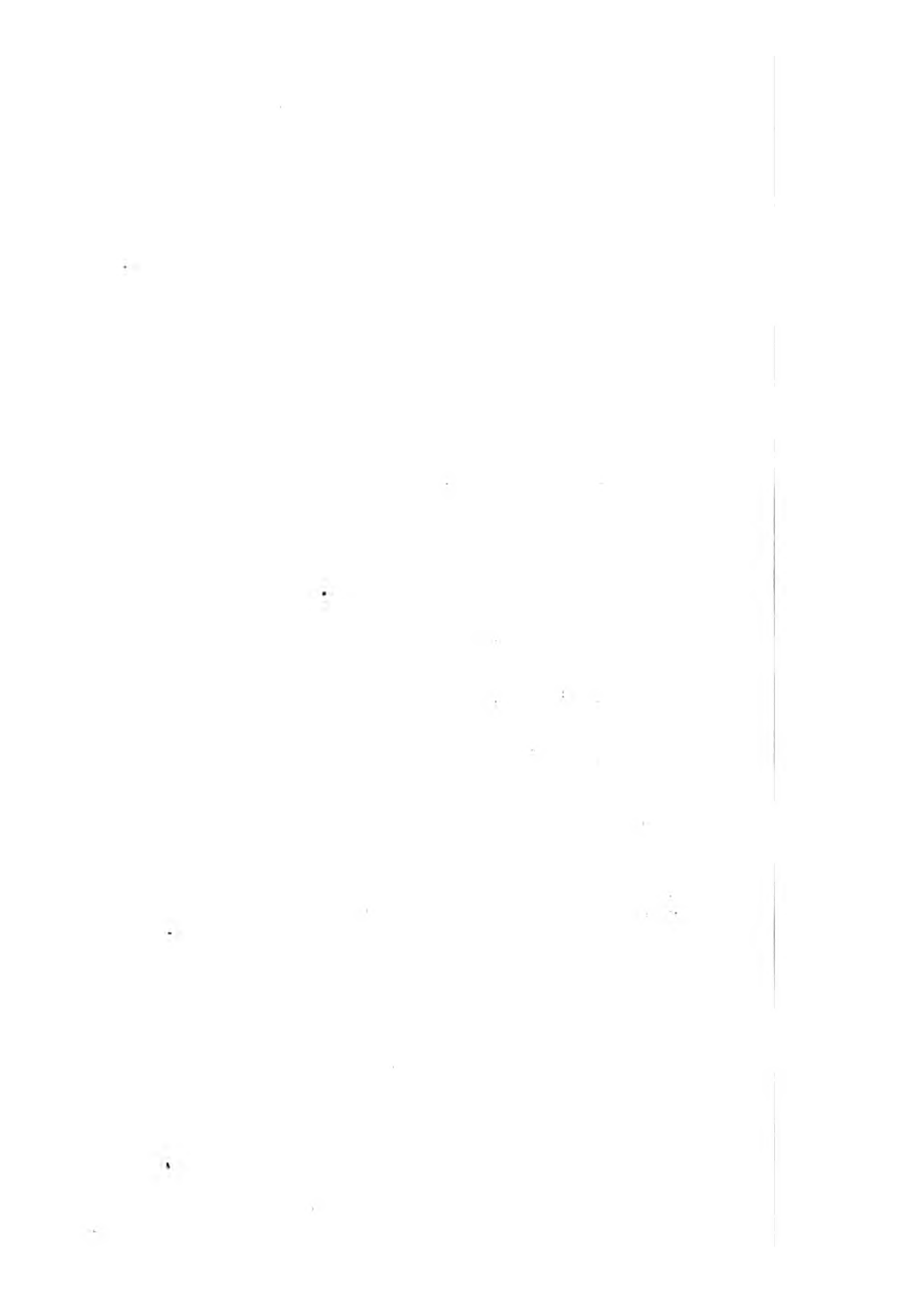
Moth with expanded slightly-dentated green wings, marked by a narrow undulated whitish bar, and the upper pair near the thorax by a smaller secondary bar.

Roes. Ins. 4. pl. 18.

Harris Exp. Engl. Ins. pl. 13. f. 1.?

Fuessli Arch. Ins. pl. 9.

The Caterpillar of this elegant insect feeds principally on the leaves of Birch and Broom; changing to a chrysalis in the month of June, from which in July proceeds the Moth.



MYTILUS HIRUNDO.

Var.?

CHARACTER GENERICUS.

Animal Ascidia?

Testa bivalvis, rudis, sæpius affixa bysso, ut plurimum crassiori.

Cardo (in plurimis) edentulus, distinctus, (paucis exceptis) linea subulata excavata longitudinali.

Lin. Syst. Nat. Gmel.

CHARACTER SPECIFICUS, &c.

Mytilus Hirundo. M. testa lævi, valvulis bilobis, lobo cardinali longiore tenuioreque.

Lin. Syst. Nat. p. 1159.

Avicula.

Rumph. Mus. t. 46. f. G.

Argenv. Conch. t. 22. f. B.

Var. M. *Hirundo* intus rufescens, extremitate nigra.

Knorr. Vergn. 6. t. 2.

E maribus Indicis extrahitur rara hæc testa, interdum major quam in tabula depingitur.



1075



R.P. Nöthen. Del. Sculp. C.

THE
WINGED MUSCLE.

Var.?

GENERIC CHARACTER.

Animal allied to an Ascidia.

Shell bivalve, in some species fastened by a kind of silk or byssus.

Hinge, in most species, toothless.

SPECIFIC CHARACTER. &c.

Muscle with smooth shell, bilobate valves, and lengthened cardinal lobe.

L'Oiseau.

Argenv. Conch. pl. 22. f. B.

Var. Winged Muscle rufous within, with black extremities.

The rare shell here represented is an inhabitant of the Indian seas, and is sometimes of larger size than expressed in the plate annexed.

CORRALINA DILATATA.

CHARACTER GENERICUS.

Animal? crescens habitu plantæ.

Stirps fixa rami articulati, ramulosi.

CHARACTER SPECIFICUS, &c.

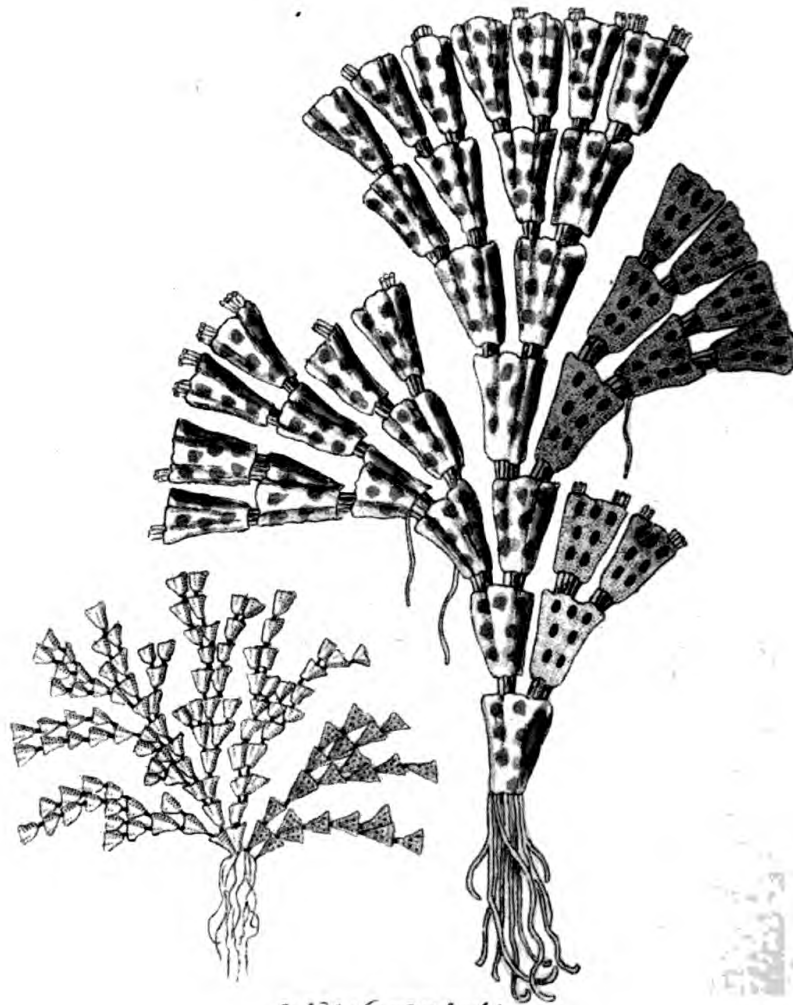
Corallina ramosa dichotoma, articulis triangulo-dilatatis.

Cellaria Flabellum. C. lapidea articulata ramosa dichotoma, articulis subcuneiformibus uno latere cellulosis.

Soland. et Ellis Zooph. p. 28.
t. 4. f. c.

Circa litora Americana præcipue conspicitur Corallina dilatata, altitudine tres vel quatuor uncias æquans.





RuK? P. Noton "Del. Soudp."

DILATED CORALLINE.

GENERIC CHARACTER.

Animal? growing in the form of a plant.
Stem fixed; branches jointed and subdivided.

SPECIFIC CHARACTER, &c.

Branched dichotomous Coralline, with triangularly-dilated joints.

Fan celliferous Coralline.

Soland. et Ellis Zooph. p. 28.
pl. 4. f. c.

This species of Coralline is chiefly observed on the American coasts, where it rises to the height of three or four inches.

FALCO FASTOSUS.

CHARACTER GENERICUS.

Rostrum aduncum, basi cera instructum.

Caput pennis arcte tectum.

Lingua plerisque bifida.

CHARACTER SPECIFICUS, &c.

Falco fuscus, collo postico ferrugineo, subtus
albidus nigro maculatus, vertice pennis
lanceolatis cristato.

Falco ornatus?

Daudin av.

Falco superbus?

Gen. Zool. 7. p. 64.

Autour huppè.

Levaill. Ois. Afr. t. 26.

Americam meridionalem præcipue Cayanam incolit
hæc avis, magnitudine Falconem palumbarium supe-
rans.



THE
NARROW-CRESTED FALCON.

GENERIC CHARACTER.

Beak hooked, furnished at the base with a cere.
Head well covered with feathers.
Tongue, in most species, bifid.

SPECIFIC CHARACTER. &c.

Brown Falcon, with the hind part of the neck
ferruginous; beneath whitish, spotted with
black; and the head crested with lanceo-
late feathers.

Autour huppè.

Levaiill. Ois. Afr. pl. 26.

Superb Eagle?

Gen. Zool. 7. p. 64.

The present species of Falcon is a native of South
America, and particularly of Cayenne. Its size is
larger than that of the European Goshawk.

PAPILIO EUBULE.

CHARACTER GENERICUS.

Antennæ apicem versus crassiores, sæpius clavato-capitatae.

Alæ (sedentis) erectæ sursumque conniventes; (volatu diurno.)

Lin. Syst. Nat.

CHARACTER SPECIFICUS, &c.

Papilio alis integerrimis rotundatis luteis margine punctis nigris; subtus puncto gemino ferrugineo argenteo.

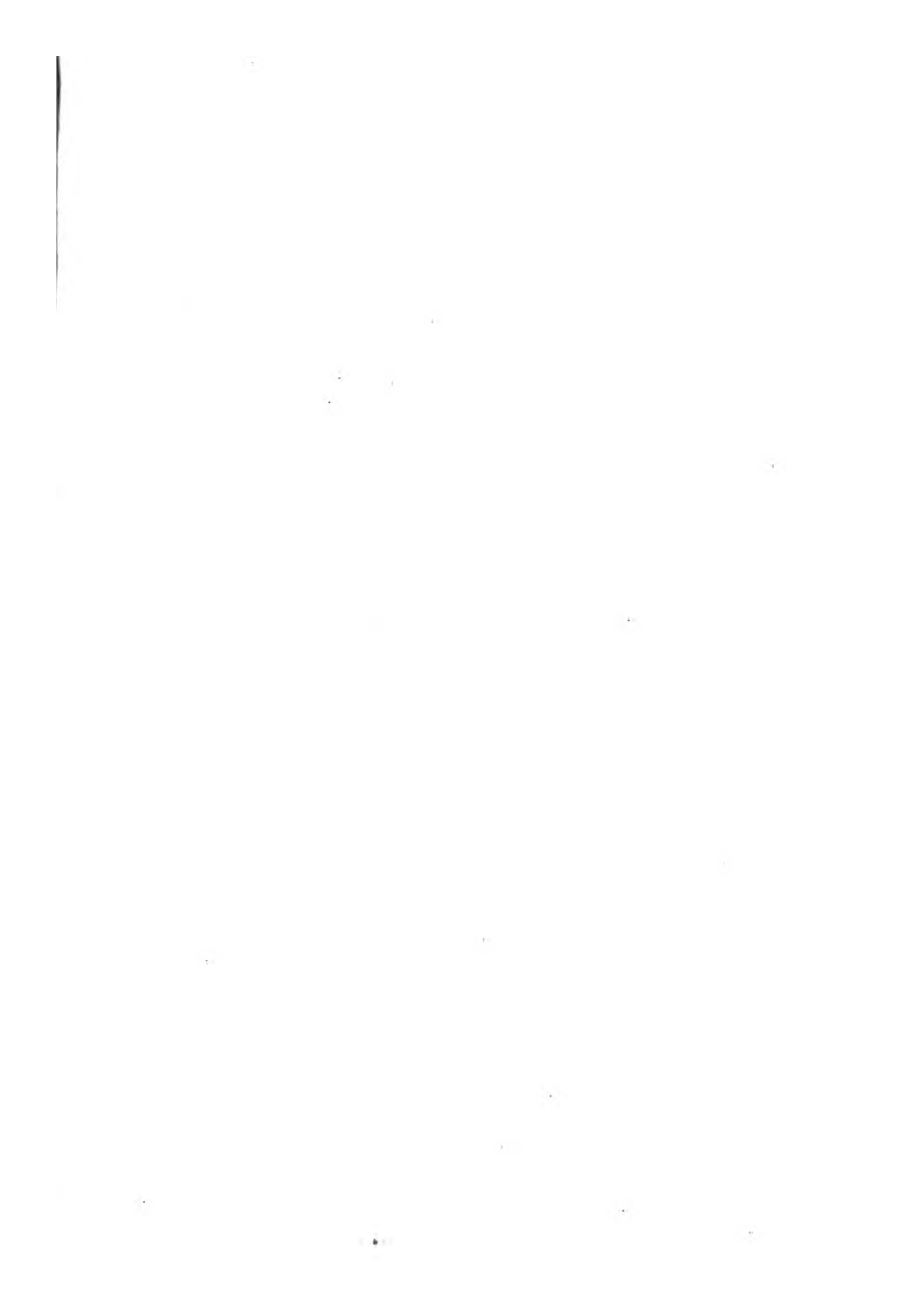
Lin. Syst. Nat. p. 764.

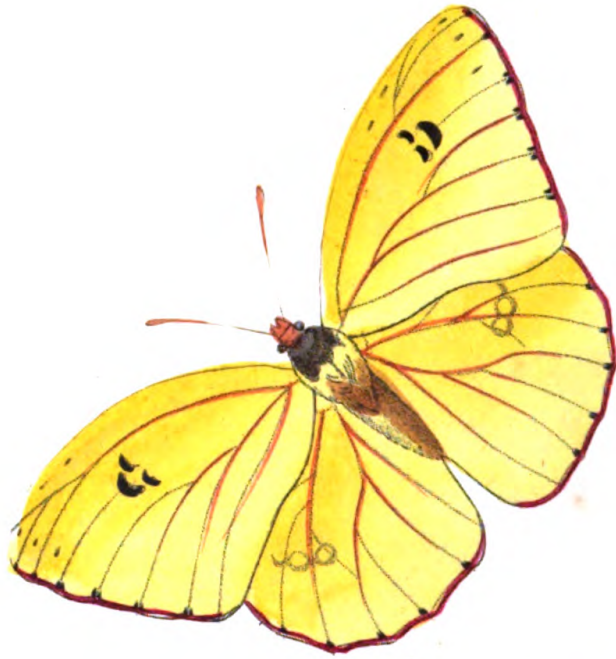
Cramer. t. 120. f. E. F.

Edw. t. 304.

Abbot. Ins. Amer. t. 5.

Georgiam et Virginiam incolit Papilio Eubule, ubi larva ejus folia Cassiæ *Chamæ-crista* dictæ depascitur.





Handwritten text, possibly a signature or artist's name.

EUBULE.

GENERIC CHARACTER.

Antennæ thickening towards the end, and generally terminating in a clavated tip.

Wings (when at rest) meeting upwards. Flight diurnal.

SPECIFIC CHARACTER, &c.

Butterfly with entire, rounded, deep-yellow wings, marked along the margin with black specks, and beneath by a double ferruginous silvery spot.

Edw. pl. 304.

Cramer, pl. 120. f. E. F.

This Insect is an inhabitant of Georgia and Virginia, where its caterpillar feeds on the leaves of the dwarf Cassia.

LABRUS UNDULATUS.

CHARACTER GENERICUS.

Dentes robusti, subacuti ; molares interdum, ut in Sparis, conferti, convexi: *labia* crassa, duplicata: *pinnæ dorsalis* radii, in certis speciebus, ramento elongati.

Opercula mutica, squamosa.

CHARACTER SPECIFICUS, &c.

Labrus viridis, capite abdomine pinnisque flavis viridi striatis.

Labrus viridis. L. aculeis dorsalibus octo.

Bloch ichth. 8. t. 282.

Labrus undulatus. L. *viridis*, lineis flavescens transversim undulatus, abdomine capiteque flavis viridi striatis.

Gen. Zool. 4. p. 496.

E mari Japonico extrahitur *Labrus undulatus*, longitudine, ut plurimum, duodecim uncias æquans.

Vertical line on the left side of the page.



R. P. Nodder Del. Sculpin

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THE
UNDULATED LABRUS.

GENERIC CHARACTER.

Teeth strong and subacute : the grinders sometimes, as in the Spari, convex and crouded: *lips* thick and doubled: rays of the *dorsal fin*, in some species, elongated into soft processes.

Gill-Covers unarmed and scaly.

SPECIFIC CHARACTER, &c.

Green Labrus, with the head, fins, and abdomen yellow striped with green.

Undulated Labrus. Green Labrus, undulated with transverse yellow lines, with the head and abdomen yellow striped with green.

Gen. Zool. 4. p. 496.

Labrus viridis.

Bloch. 8. p. 104. pl. 282.

This elegant fish is taken in the Japanese sea, where it arrives at the length of about twelve inches.

MUREX LAMPAS.

CHARACTER GENERICUS.

Animal Limax.

Testa univalvis, spiralis, exasperata suturis membranaceis.

Apertura desinens in canalem integrum, rectum, seu subascendentem.

Lin. Syst. Nat. p. 1213.

CHARACTER SPECIFICUS, &c.

Murex testa undique tuberculata ferruginea, fasciis transversis albidis, varicibus suboppositis, apertura subovata intus rufa.

Murex Lampas. M. testa varicibus suboppositis, gibbosa tuberibus longitudinaliter tuberculosis, apertura edentula.

Lin. Syst. Nat. p. 1216.

Buccinum majus, &c.

Gualtieri, t. 50. f. D.

Buccinum tuberosum ore croceo.

Martini. 4. t. 128. f. 1236. 1237.

Le Sabot noueux.

Knorr. Vergn. 2. t. 28. f. 1.

Maria incolit Indica Murex Lampas, interdum multo major quam in tabula depingitur.

THE
LAMP MUREX.

GENERIC CHARACTER.

Animal allied to a Limax or Slug.

Shell univalve, roughened by membranaceous sutures.

Aperture ending in a strait or subascending channel.

SPECIFIC CHARACTER, &c.

Murex with ferruginous shell tuberculated on all parts, with whitish transverse bands, nearly opposite protuberances, and subovate mouth rufous within.

Lister, tab. 1023.

Rumph. Mus. t. 28. c. D.

Argenv. Conch. pl. 9. D.

Martini 4. pl. 128. f. 1326. 1327.

This shell is an inhabitant of the Indian seas, and is sometimes found much larger than represented on the present plate.



Reich's Pflanzl. Zool. Fig. 1020

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