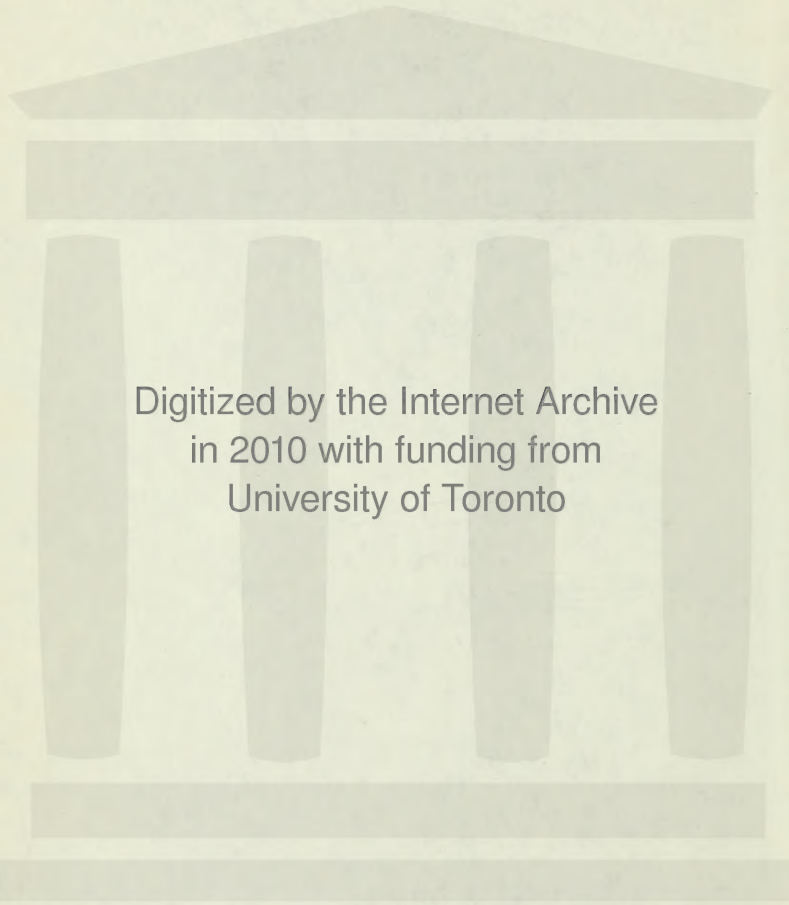
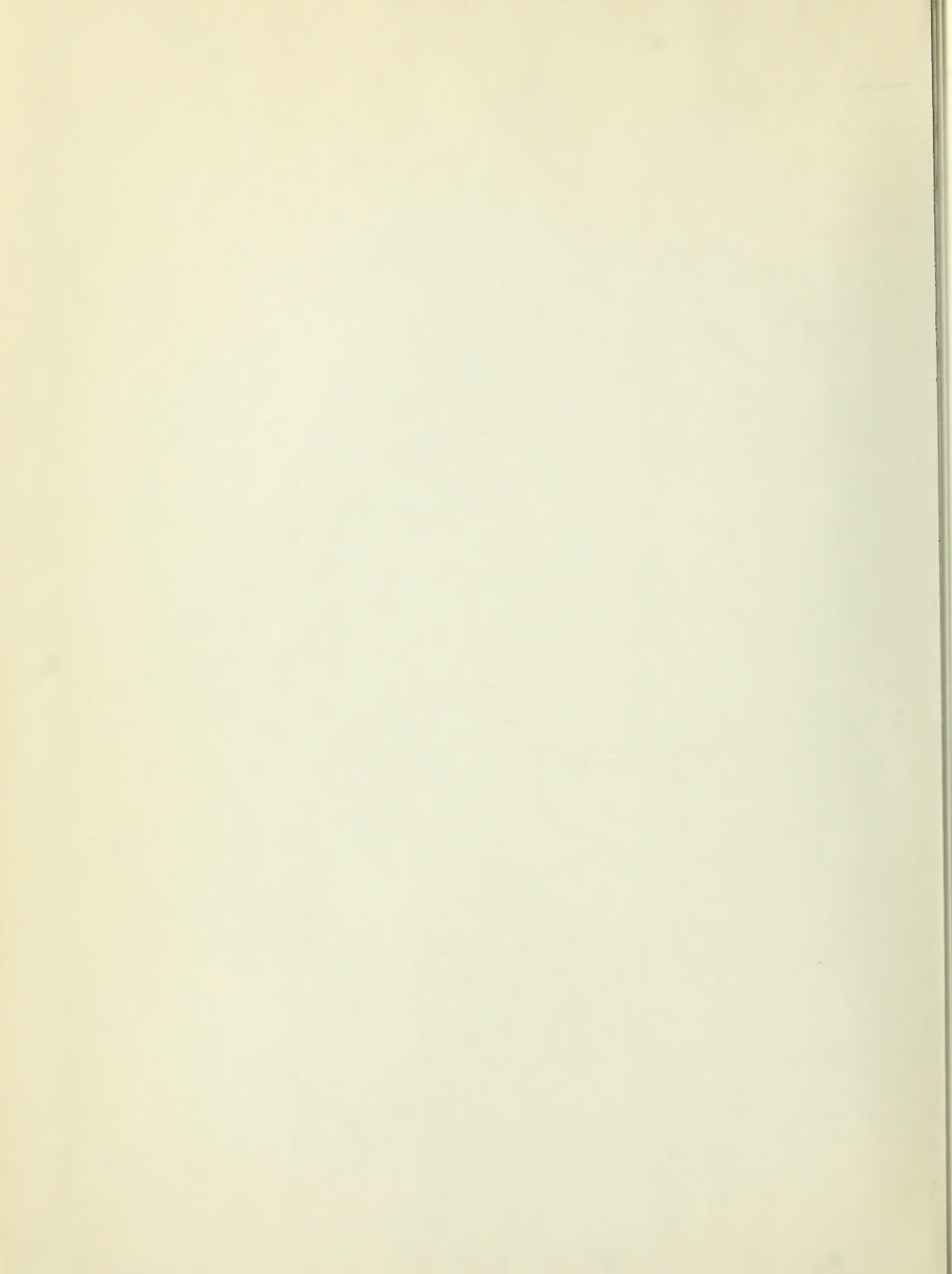




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CYCLOPÆDIA;

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OR,
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PLATES. VOL. V.
NATURAL HISTORY.

THE
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ARTS, SCIENCES AND LITERATURE
BY
JOHN WOOD
AND
OTHERS

THE
CYCLOPÆDIA;

OR,

UNIVERSAL DICTIONARY

OF

Arts, Sciences, and Literature.

BY

ABRAHAM REES, D.D. F.R.S. F.L.S. *S. Amer. Soc.*

WITH THE ASSISTANCE OF
EMINENT PROFESSIONAL GENTLEMEN.

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BY THE MOST DISTINGUISHED ARTISTS.

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NATURAL HISTORY.

LONDON:

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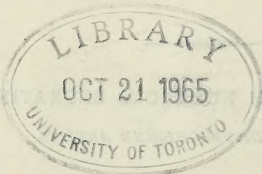
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1 ORANG UTANG. 2 CHIMPANZEE 3 BARKING APL. 7 RED TAILED APL.
 2 CHESNUT UTANG. 4 LONG ARMED APL. 6 PIGMY APL. 8 STRAITED APL.

Published by the Author, Messrs. G. & J. Longman & Co. Stationers, Strand, London.

QUADRUPEDS.

CLASS MAMMALIA ORDER PRIMATES. GENUS LEMUR. GENUS GALEOPITHECUS. GEOFF.



1. L. Rodje Tarsier — 2. L. Ecaudatus Taillefs Maueauco. — 3. L. Murinus Mirine Lemur. — 4. L. Catta Ring-tail Maueauco. — 5. L. Tardigradus Loris.
6. L. Volans Flying Lemur. (Galeopithecus rufus Audels)

MAMMALIA.

GENUS VESPERTILIO

Bat



3



1.V. Vampyrus 2.V. Auritus 3.V. Spasma 4.V. Leporinus 5.V. Spectrum
 VAMPIRE B. LONG EARED B. CORNATED B. PERUVIAN B. SPECTRE B.

Published as the Act directed, March 1. 1803, by Longman, Hurst, Roe, Orme & Brown, Paternoster Row.

L. 60 60 2

QUADRUPEDS.

CLASS MAMMALIA. ORDER BRUTA. GENUS BRADYPUS. GENUS MYRMECOPHAGA. GENUS ORNYTHORINCHUS.



1. *Bradypus Tridactylus*. Three toed Sloth. 2. *B. Didactylus*. Two toed Sloth. 3. *Myrmecophaga Didactyla*. Two toed or little Ant eater. 4. *M. Tetradactyla*. Four toed Ant eater. 5. *M. Jubata*. Great Ant eater. 6. *Ornythorinchus Parasodex*. Duck billed *Ornythorinchus*.

QUADRUPEDS.

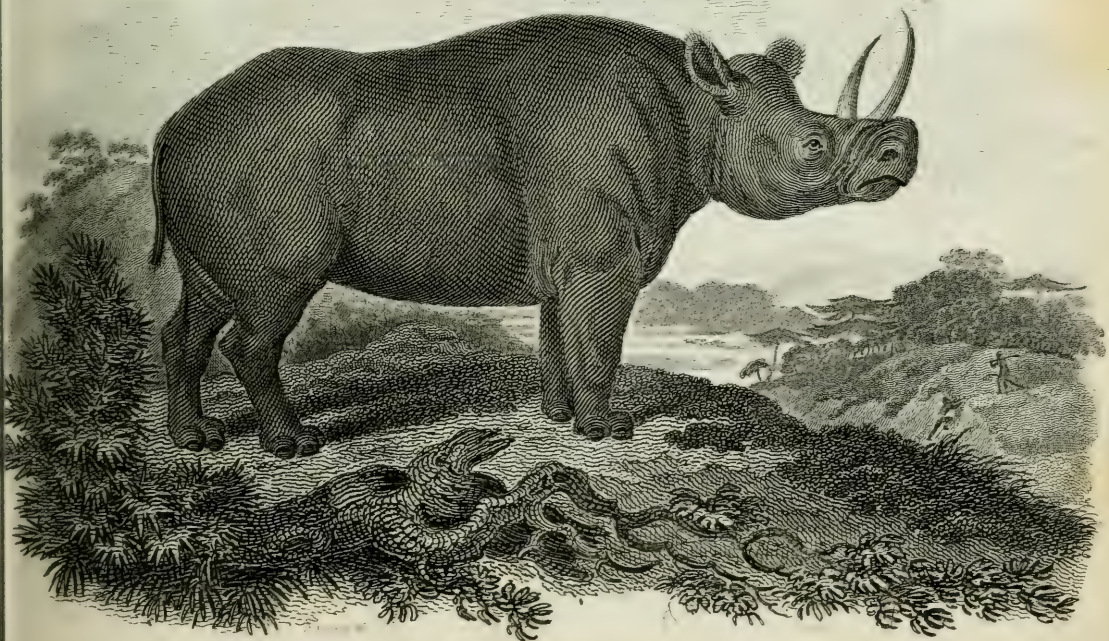
MAMMALIA GENUS MANIS GENUS DASYPUS.



1. Manis Pentadactyla short tailed Manis — 2. Manis Tetradactyla long tailed Manis — 3. Dasypus Sexcinctus Six banded Armadillo
 4. Dasypus Novemcinctus Nine banded Armadillo. — 5. Dasypus Duodecincinctus Tricinctus Lim. Twelve banded Armadillo.



Rhinoceros unicornis. One horned Rhinoceros.



Rhinoceros bicornis. Two horned Rhinoceros.

QUADRUPEDS

CLASS MAMMALIA. ORDER FERA. GENUS TRICHECHUS. GENUS PHOCA.



1. *Trichechus Rosmarus*, Arctic Walrus or Morse. 2. *T. Manatus* (var. *borealis*) Manatus. 3. *Phoca Ursina*, Ursine Seal
4. *P. Grenlandica* Harp Seal. 5. *P. Vitulina*, Common Seal or Sea Calf. 6. *P. Maculata*, Spotted Seal.

Published as the Act directed, Mar 22nd 1839, by Longman, Hurst, Bosc. & Co. Printers

QUADRUPEDS.

Linn Syst.

CLASS Ist MAMMALIA. ORDER III^d FERE. GENUS IVth CANIS.

PLATE II of Order Vth



1. Shepherds Dog. 2. Aufralasian Dog. 3. Pomeranian Dog. 4. Siberian Dog. 5. Ireland Dog. 6. Small Barbet. 7. Great Barbet or Water Dog.

Published at the Art Juxta. Ed. 2^d 1821, by Longman & Co. Stationer Lane.

QUADRUPEDS.

CLASS I^{ta} MAMMALIA. ORDER III^{ta} FERÆ. GENUS XV CANIS.



1 King Charles Dog 2 Pyrene 3 Naked or Turkish Hound 4 Pug 5 Spaniel 6 Shock 7 Small Dane 8 Lion D 9 Roquet.

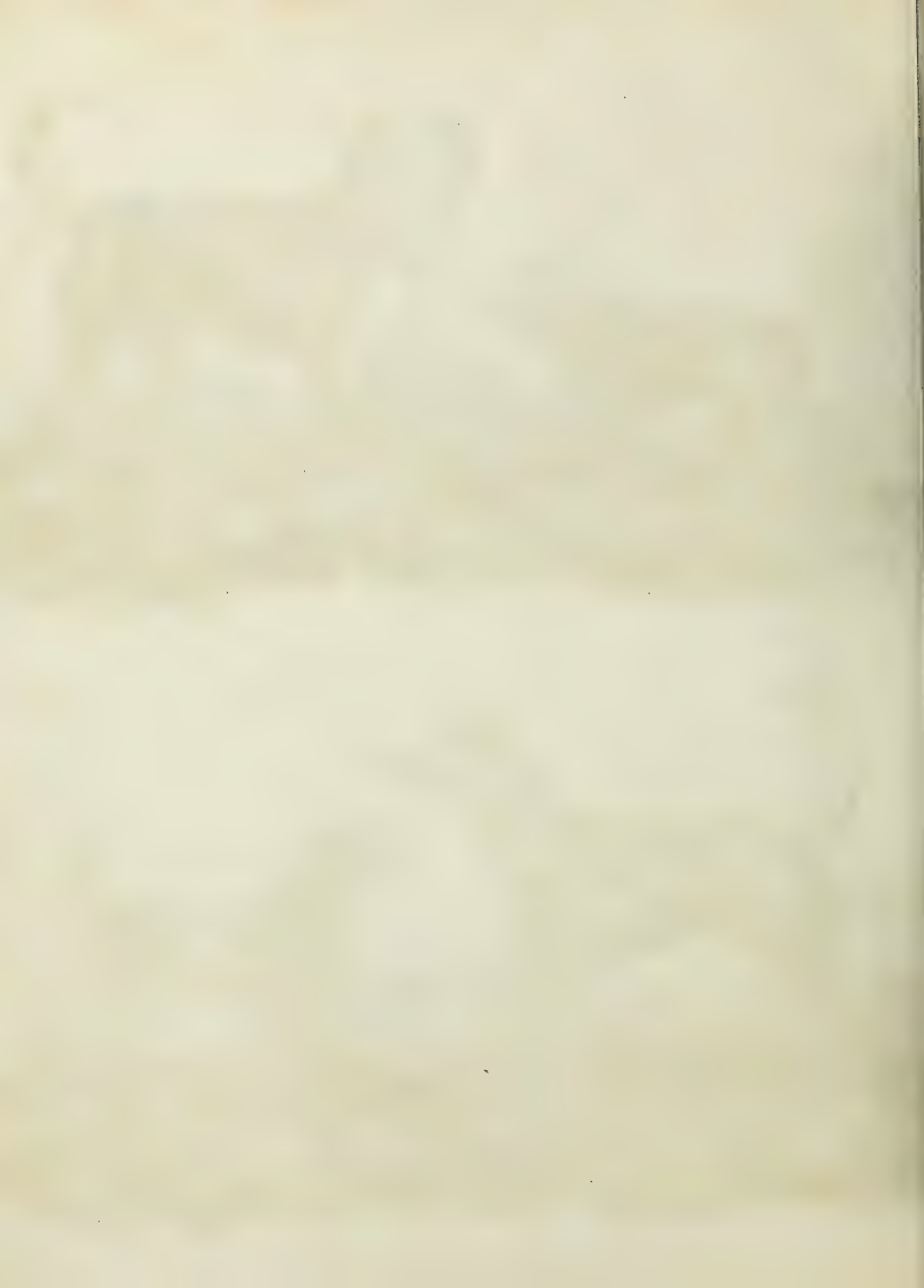
Engraved by J. G. Smith, and Published by J. G. Smith, at the Office of the Publisher, No. 10, Pall Mall.

CLASS I^{ta} MAMMALIA ... ORDER III^{ta} TERRE ... GENUS IV^{ta} CANIS.



1. Mastiff. 2. Bull Dog. 3. G. Danish or Harlequin D. 4. Dalmatian Dog.

Published at the Art Society's Office, by Longman Hurst, Esq. & Brown, Stationers for



QUADRUPEDS

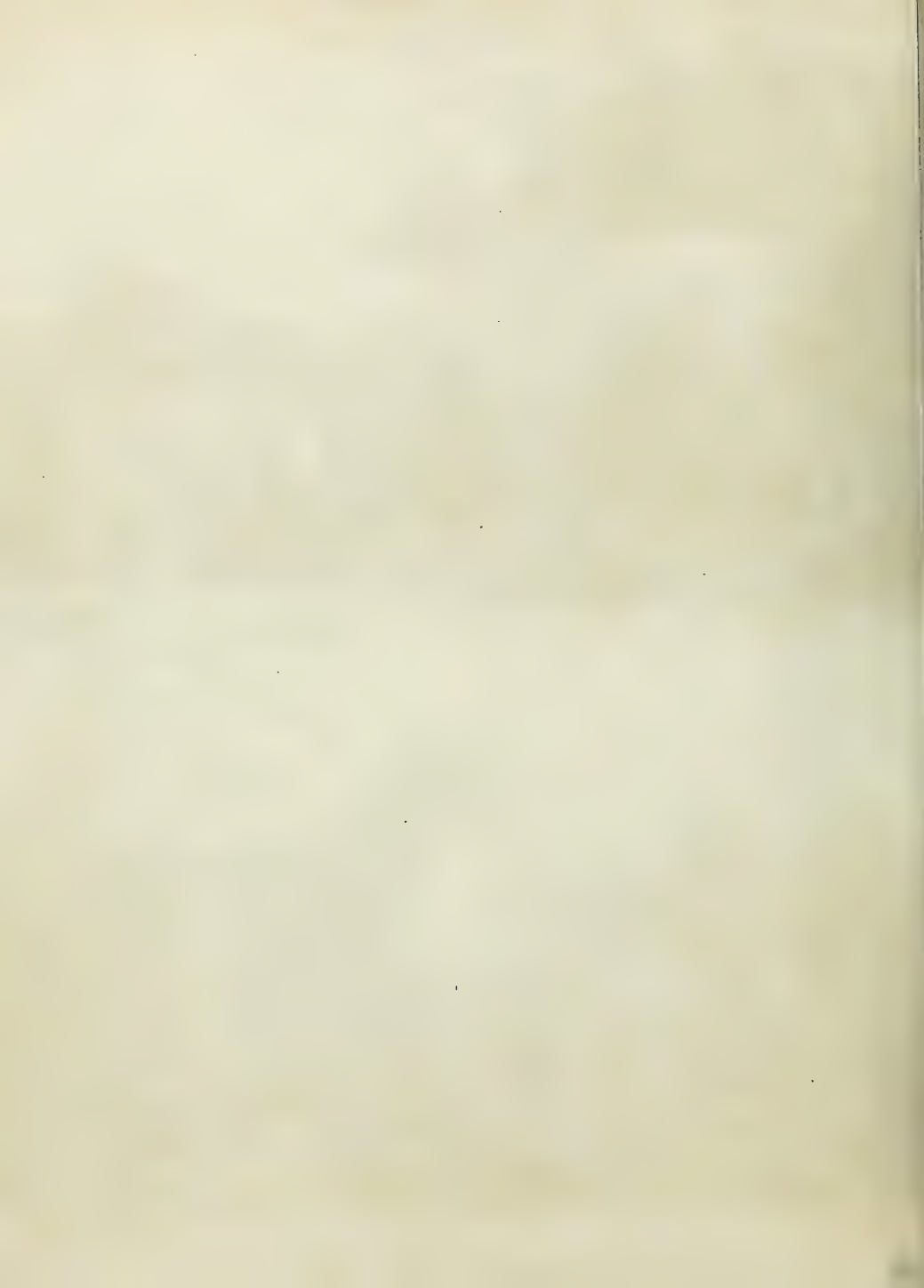
CLASS I. MAMMALIA. ORDER II. VIVERRA. GENUS IV. CANIS.

PLATE IV. *continued*



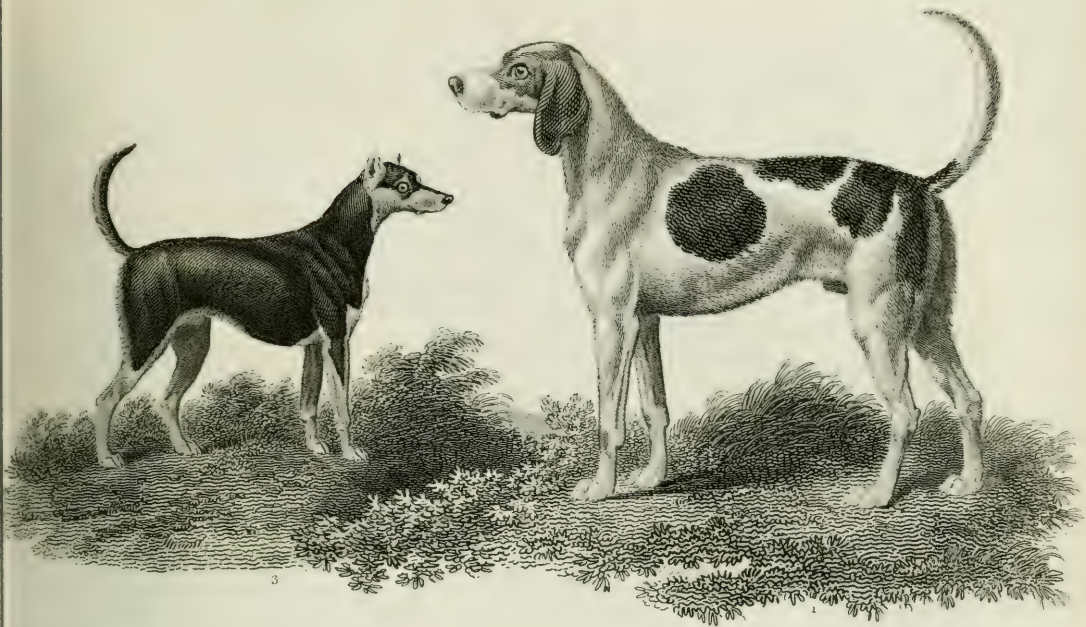
1. Old English or Talbot Hound. 2. Beagle. 3. Harrier. 4. British Blood Hound.

Engraved by the Art Director, June 1862, by J. G. Thompson, after the original in the possession of the Hon. the Secretary of State.



QUADRUPEDS.

CLASS Ist MAMMALIA _ ORDER IIIrd FERA _ GENUS IVth CANIS.

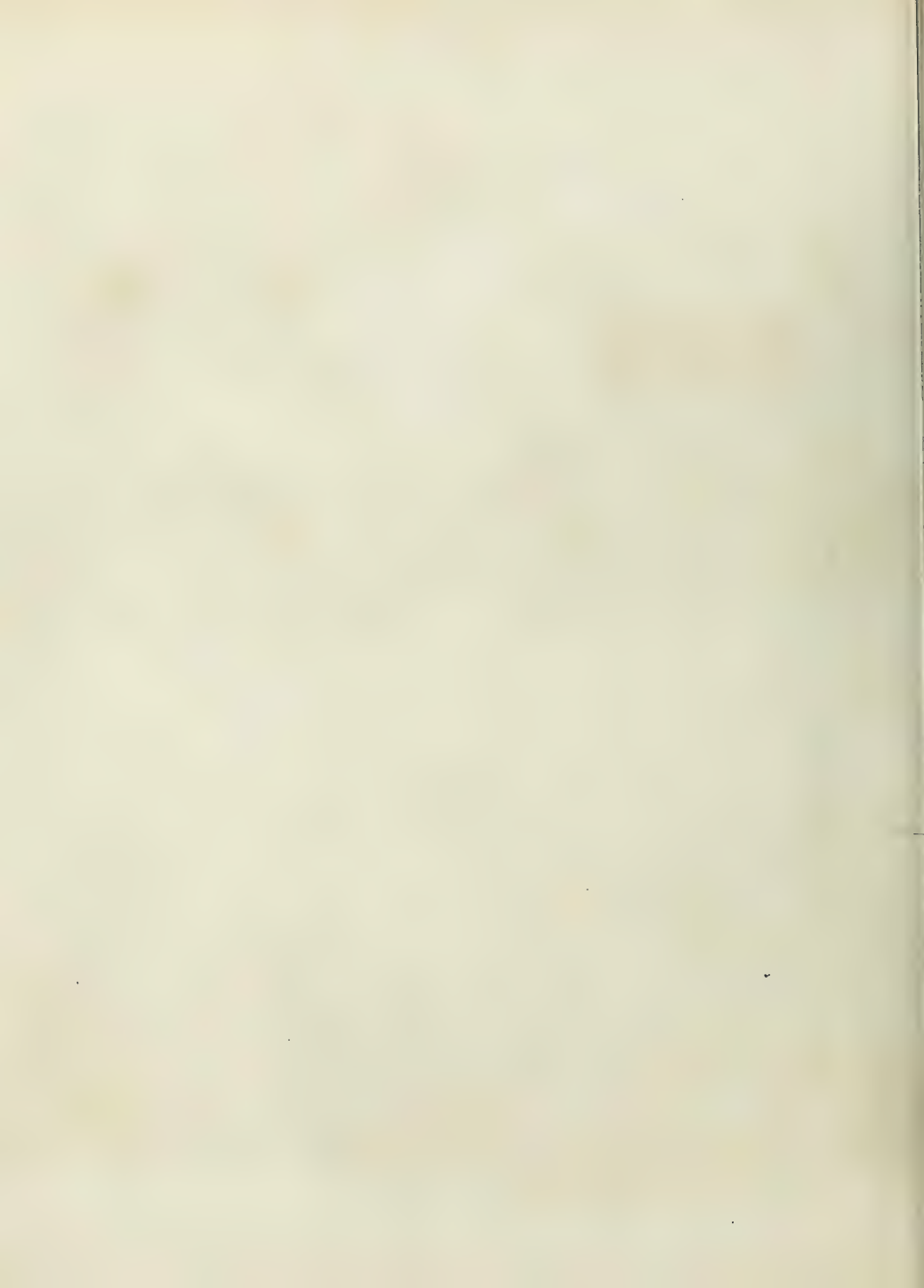


3



4

1. Stag Hound _ 2. Fox Hound _ 3 & 4. Smooth Terriers. 5. Rough Terrier.



QUADRUPEDS.
CLASS MAMMALIA. ORDER FERE. GENUS CANIS.



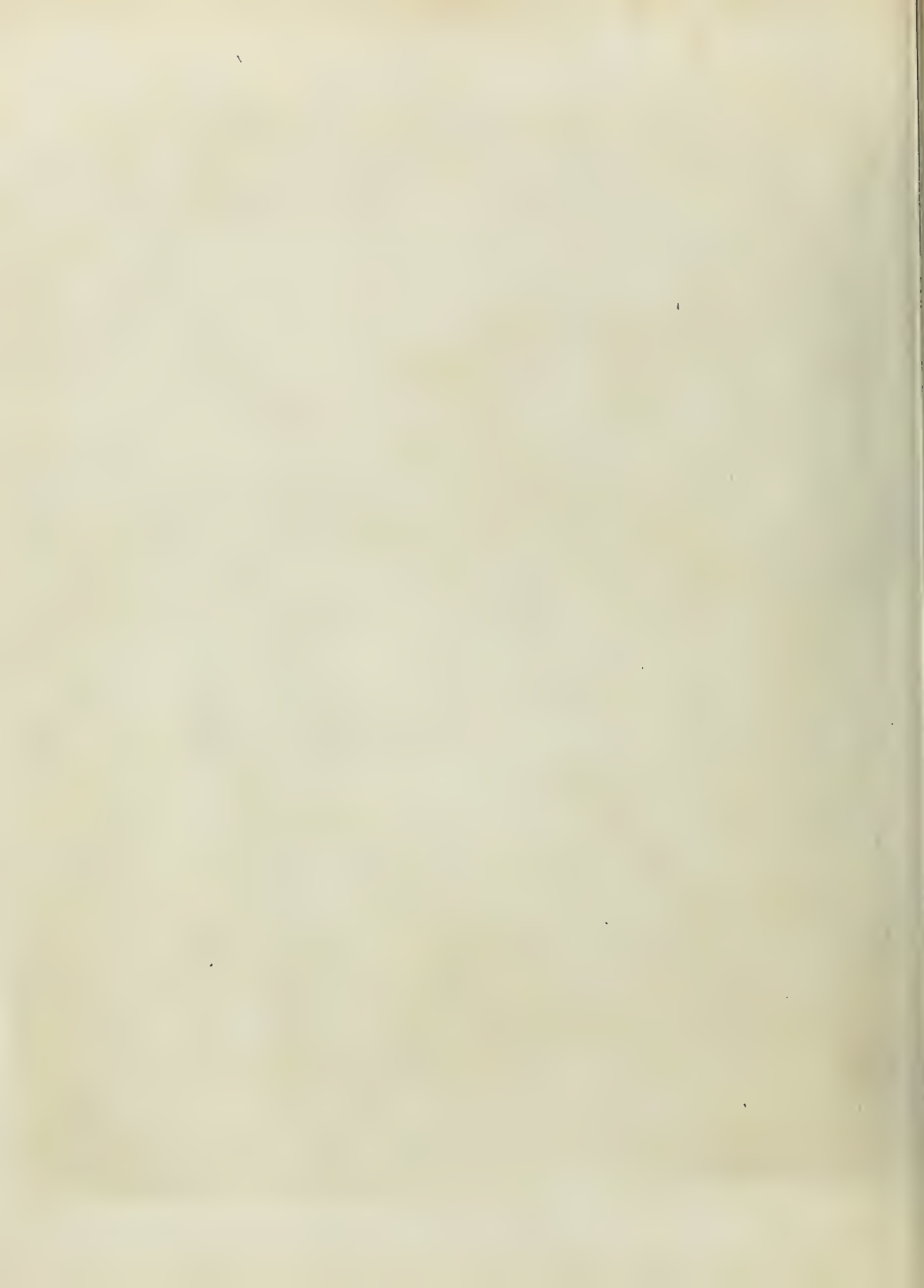
1. Canis Lupus. Wolf. 2. C. Hyæna. Striped Hyæna. 3. C. Mesomelas. Cape Jackal.
 4. C. Vulpes. Common Fox. 5. C. Lagopus. Arctic Fox.



QUADRUPEDS.
GENUS FELIS. LIONS, TYGERS &c.

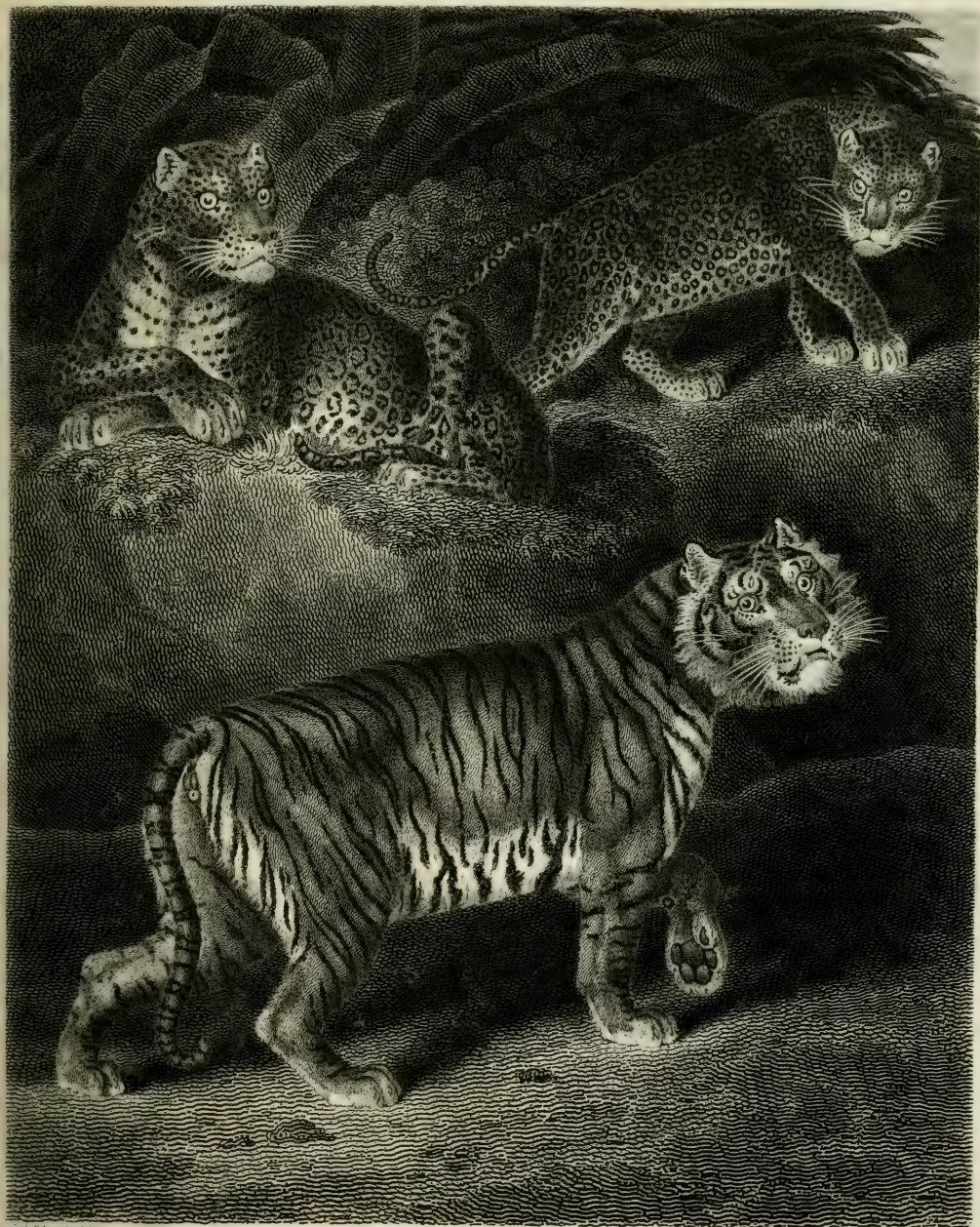


Felis Leo. Lion, Lioness & Young.



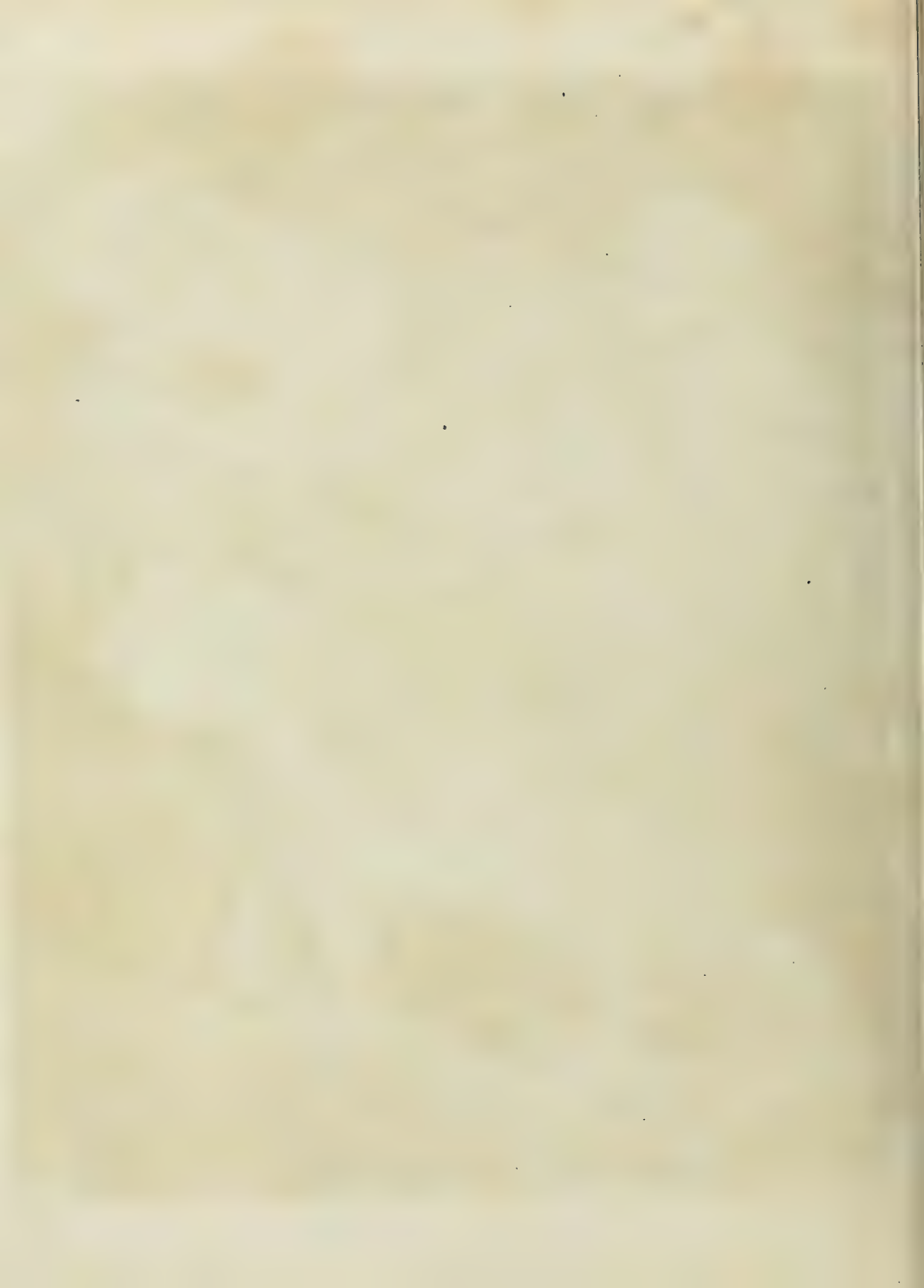
QUADRUPEDS.

CLASS IST MAMMALIA. ORDER III FERA. GENUS FELIS.



1. F. Tigris. 2. F. Pardus. 3. F. Leopardus
 TIGER. PANTHER LEOPARD

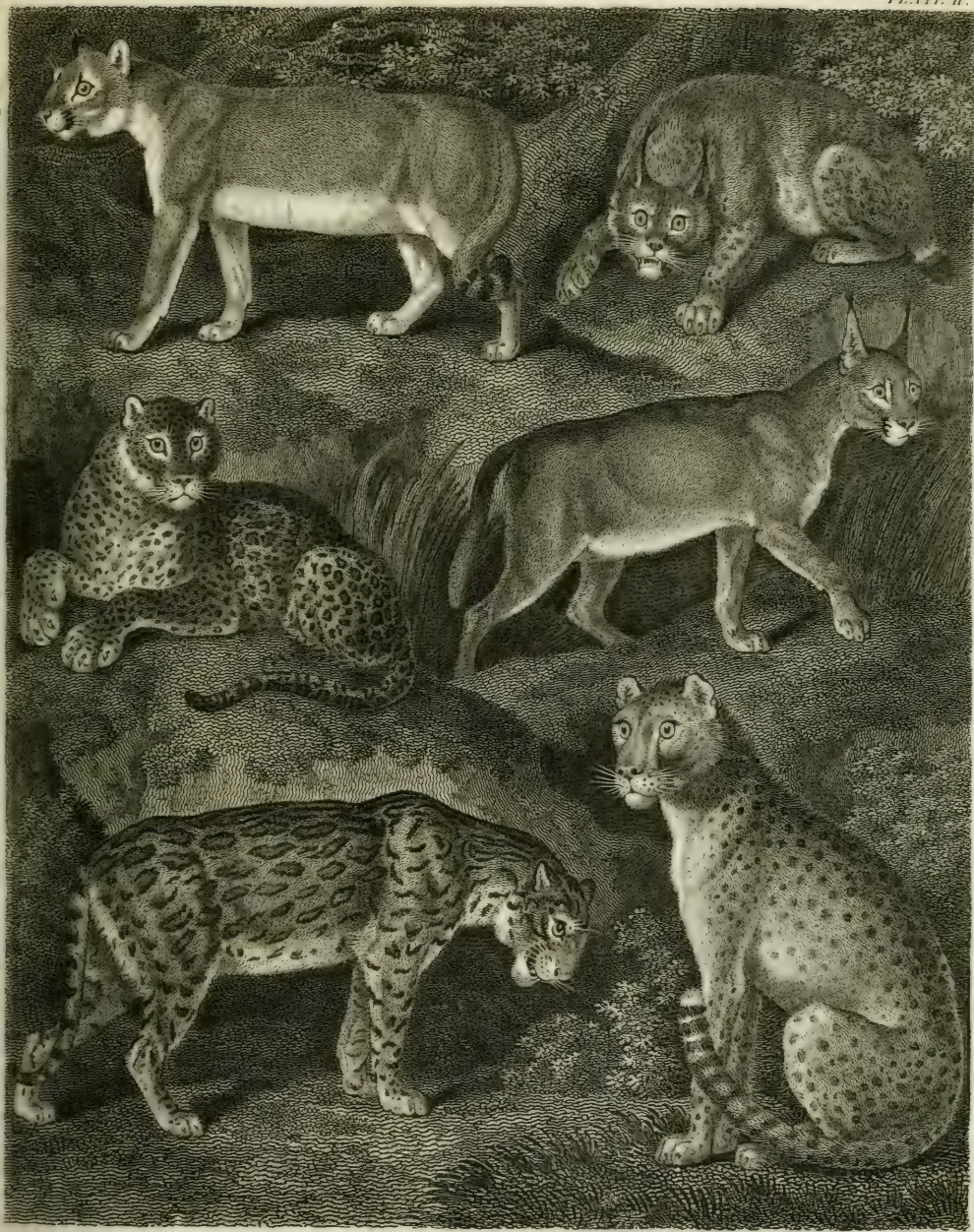
Published at the Act directe Jan 1789 by Longman, Hurst, Roe & Brown Paternoster-Row.



QUADRUPEDS

GENUS FELIS. TYGERS.

PLATE II.



1. Felis Duma, Cougar — 2. Felis Lynx, the Lynx — 3. Felis Uncia Ounce — 4. Felis Citreus, Bistchoy —
5. Felis Onca, Jaguar — 6. Felis Jubata, Hunting Leopard.

Published by the Author, in consequence of the demand for a new and improved Edition.



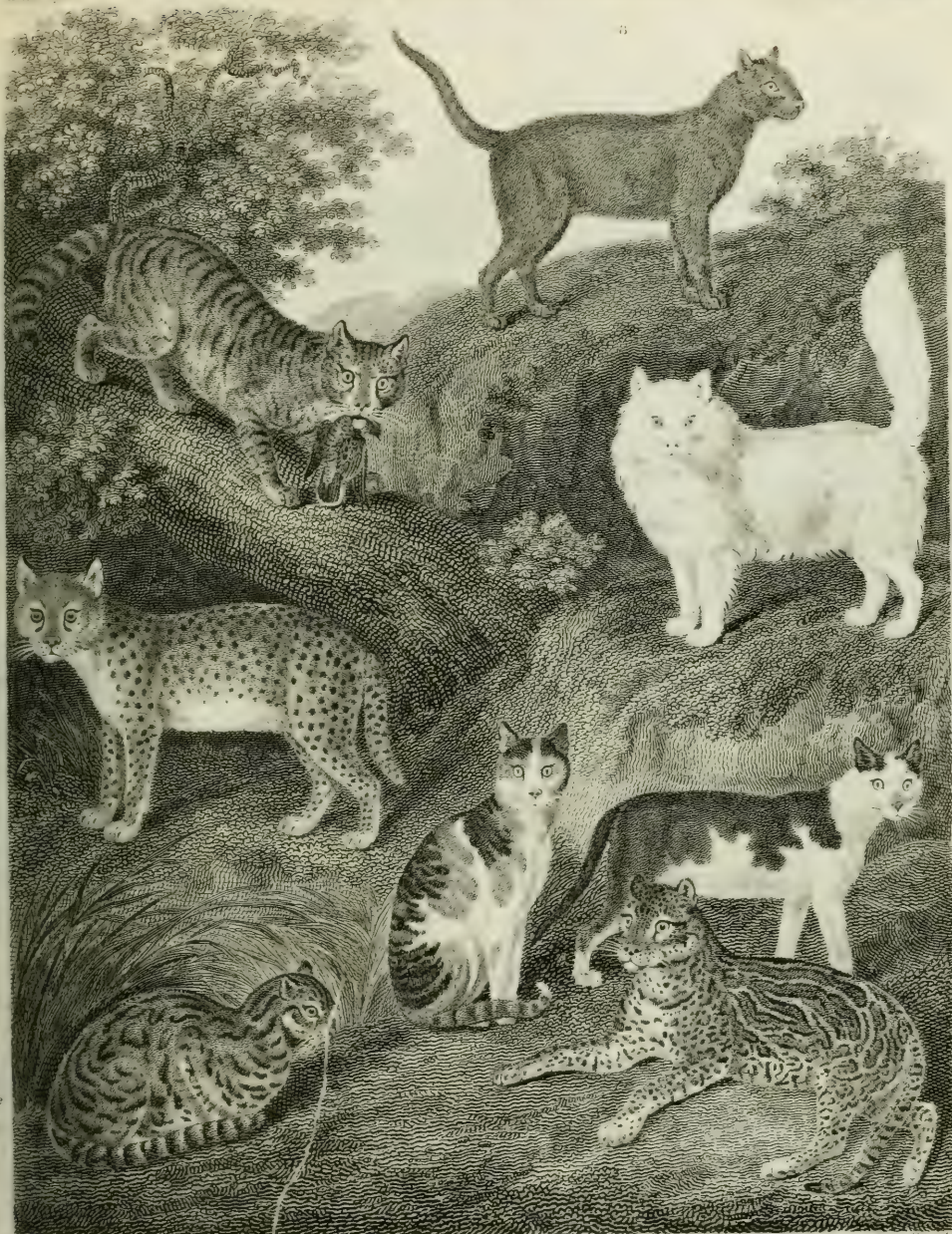


Fig. 1. Felis Pardalis, Ocelot. 2. Felis Tigrina, Mangay. 3. Felis Serval, Serval. 4. Felis Catus, Wild Cat. 5. var. Domestic Cat. 6. var. Spanish or Tortoise-shell Cat. 7. var. Angora Cat. 8. var. Slate Coloured Cat, or Chartreux.

Published as the 1st direct. Dec. 21. 1805, by Longman Hurst Rees & Orme, Pattern-st. Row



QUADRUPEDS
ORDER. FERE. GENUS. VIVERRA.



1 V: Zibetha. Zibet. 2 V: Fofsa. Fofsane. 3 V: Ichneumon. Ichneumon
4 V: Nasua. Brasiliar. Weesel. 5 V: Civetta. Civet.



QUADRUPEDS.

CLASS MAMMALIA. ORDER FERA. GENUS MUSTELA.



1. M. Lutris. Sea Otter. 2. M. Lutra. Otter. 3. M. Foinq. Martin. 4. M. Zibellina. Sable.

Published by the engraver, at the office of Long, Weyman & Co. Printers, No. 15, N. 3rd St. Philadelphia.

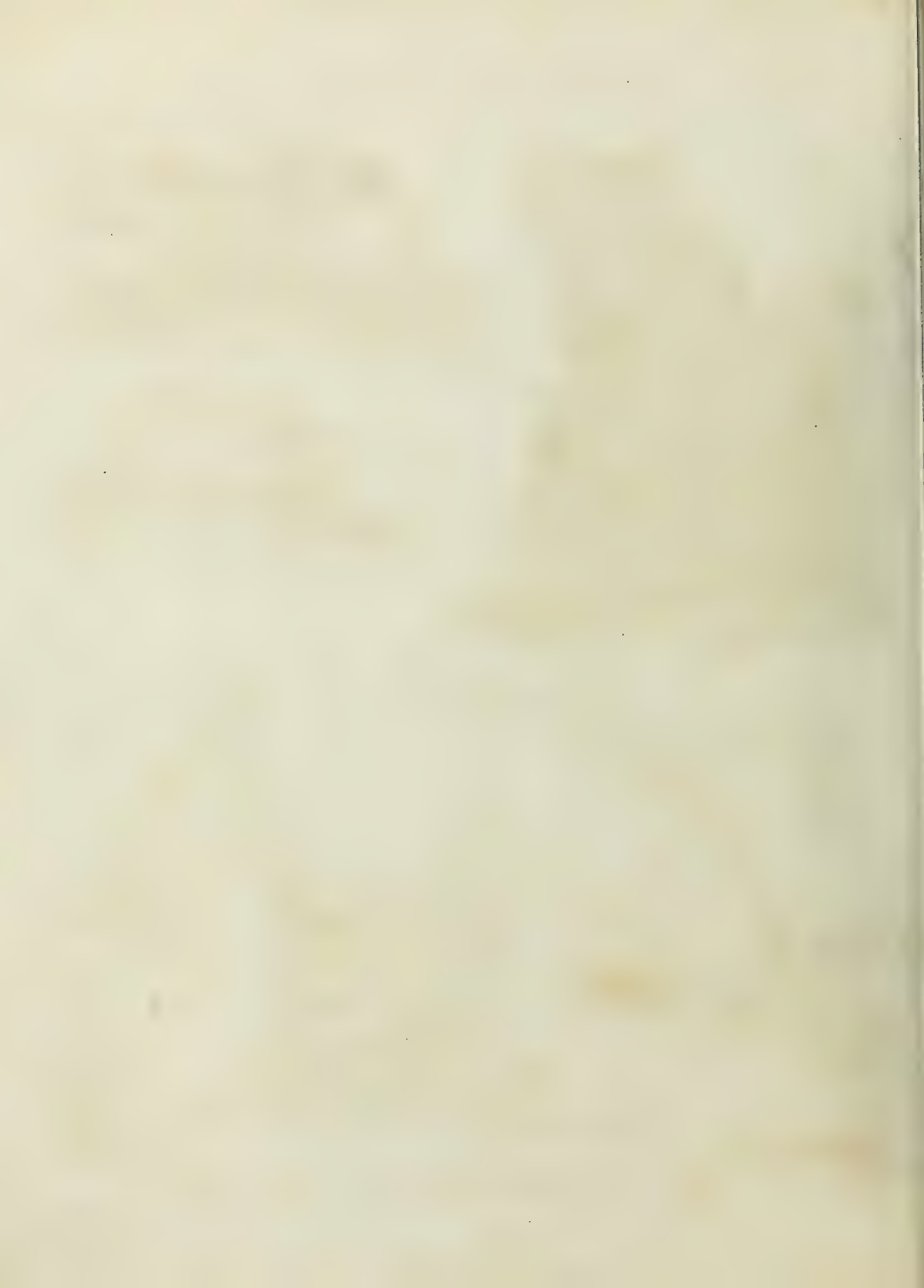


QUADRUPEDS.

CLASS MAMMALIA. ORDER FERÆ GENUS URSUS.



1. U. Americanus. American Bear. 2. U. Maritimus. Polar Bear. 3. U. Gulo. Glutton. 4. U. Meles. Badger.



QUADRUPEDS.

GENUS DIDELPHIS. OPOSSUM. GENUS MACROPUS. KANGAROO.

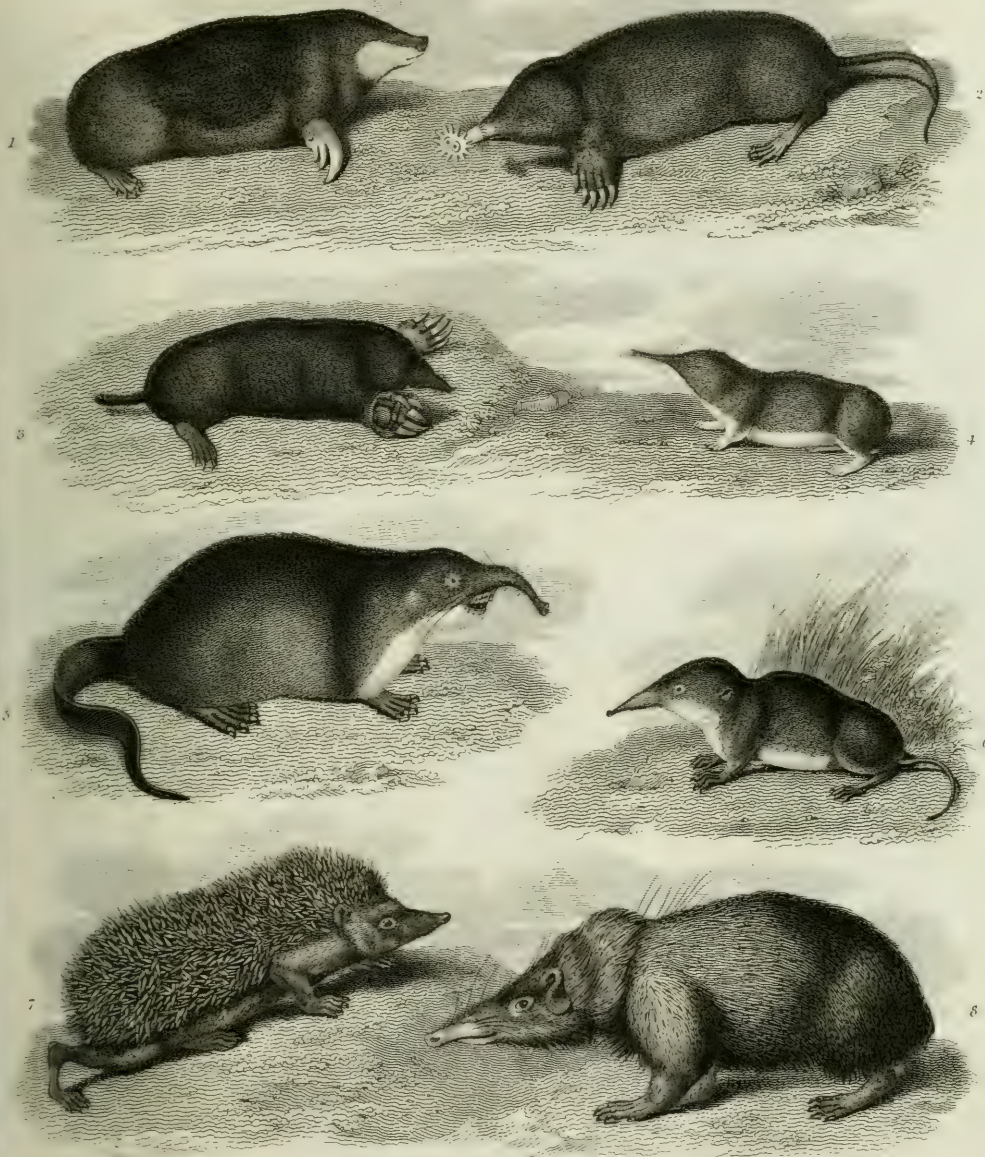


1. D. Virginiana Virginian O. — 2 D. Petraurus Petraurine O. — 3 D. Murina Murine O. — 4 D. Gigantea Great K. a. Mas. b. Fem.

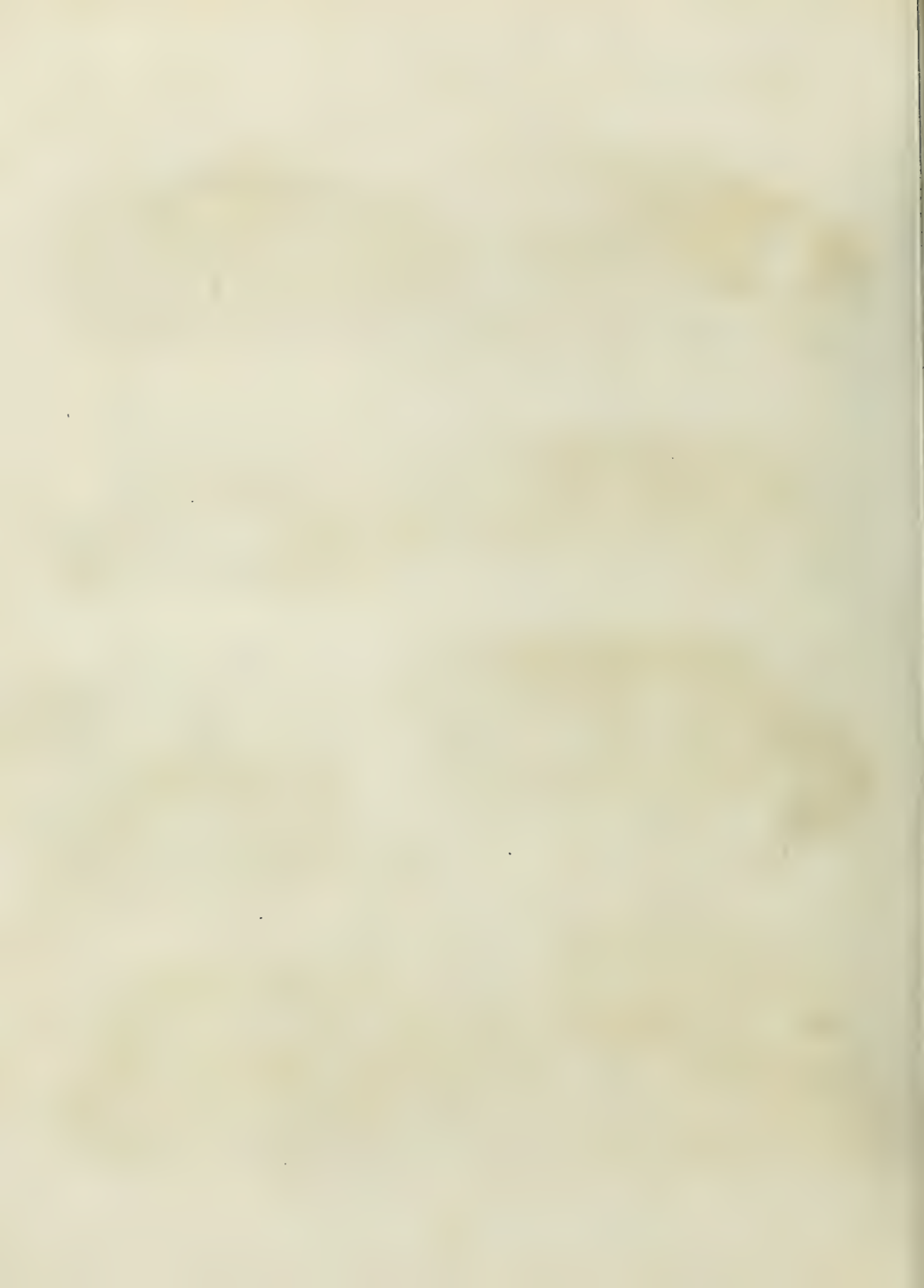


QUADRUPEDS.

MAMMALIA. ORDER FERRE. GENUS TALPA. MOLE. GENUS SOREX. SHREW. GENUS ERINACEUS. HEDGE-HOG.



1. T. Capensis. Cape M. 2. T. Longicaudata. Long-tailed M. 3. T. Europæa. Common M. 4. Sorex Minutus. Minute S. 5. S. Moschatus. Muskr. S. G. S. Araneus. Foetid S. 6. S. Europæus. Common H. 7. E. Ecaudatus. Madagascar H.



QUADRUPEDS

CLASS MAMMALIA. ORDER GLIRES. GENUS HYSTRIX. GENUS CAVIA.



1. *Hystrix Cristata*, Common or Crested Porcupine. 2. *H. Prehensilis*, Brazilian Porcupine. 3. *H. Dorsata*, Canadian Porcupine. White var.
 4. *Cavia Aguti*, Long-nosed Cavy. 5. *C. Magellanica*, Patagonian Cavy. 6. *C. Paca*, Spotted Cavy.

Engraved by J. G. Thompson. Published by J. G. Thompson, 15, South Street, New York.

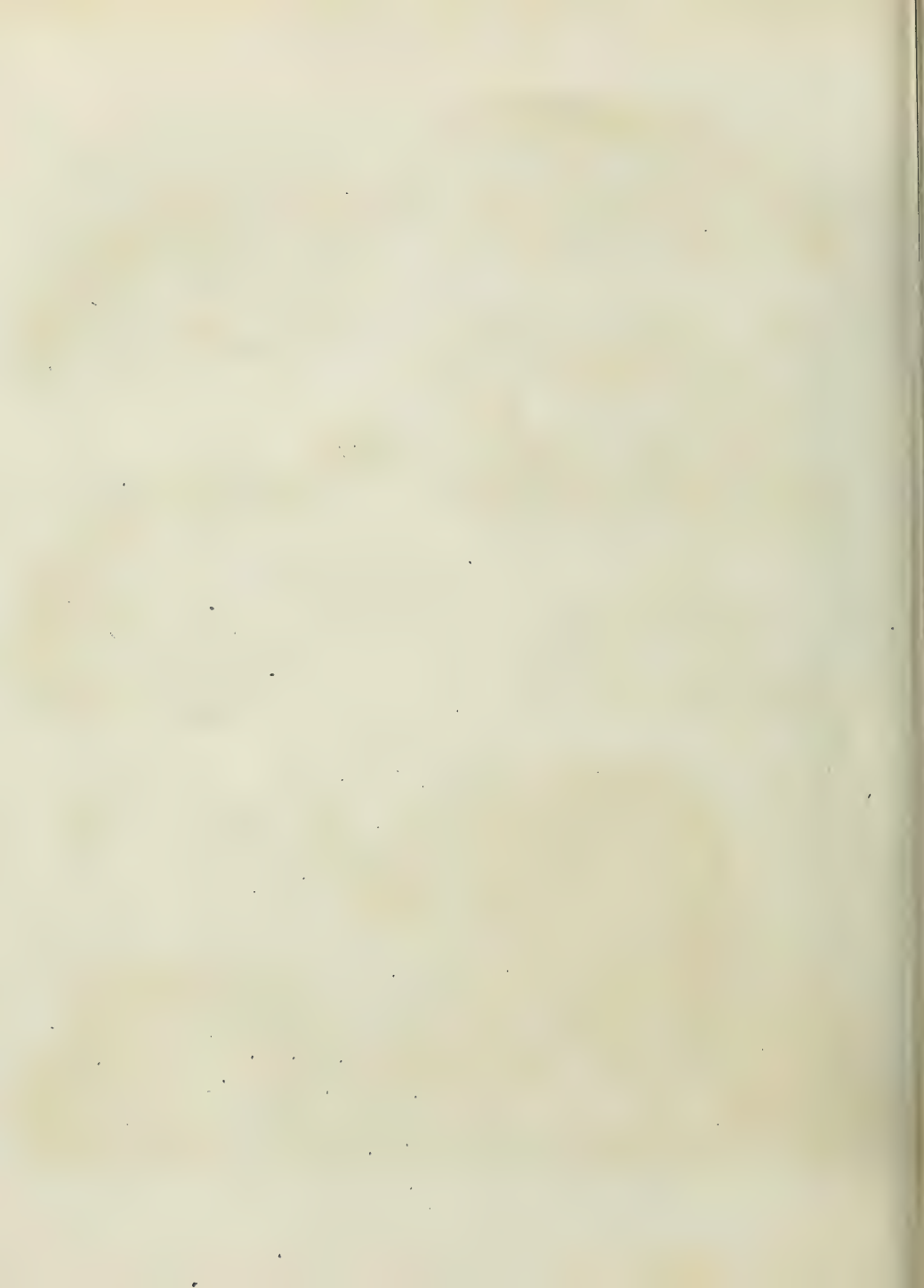


QUADRUPEDS.

CLASS. MAMMALIA. ORDER GLIRES. GENUS CASTOR. BEAVER. GENUS MUS. RAT.



1. C. Fiber. Beaver. 2. M. Zibethicus. Musk R. 3. M. Decumanus. Norway R.
 4. M. Musculus. Common Mouse. 5. M. Cricetus. German Hamster R.
 6. M. Bursarius. Canada R. 7. M. Capensis. Cape Mole R.



QUADRUPEDS.

CLASS MAMMALIA, ORDER GLIRES, GENUS ARCTOMYS, MARMOT, GENUS SCIURUS, SQUIRREL, GENUS MYOXUS, DOORMOUSE.

Syst.



1. A. Citillus, Variegated M. 2. A. Empetra, Canadian M. 3. S. Tetuaria, Taghan or Sailing S.
 4. S. Citillus, Barbery S. 5. S. Vulgus, Common S. 6. M. Muscardinus, Common D.

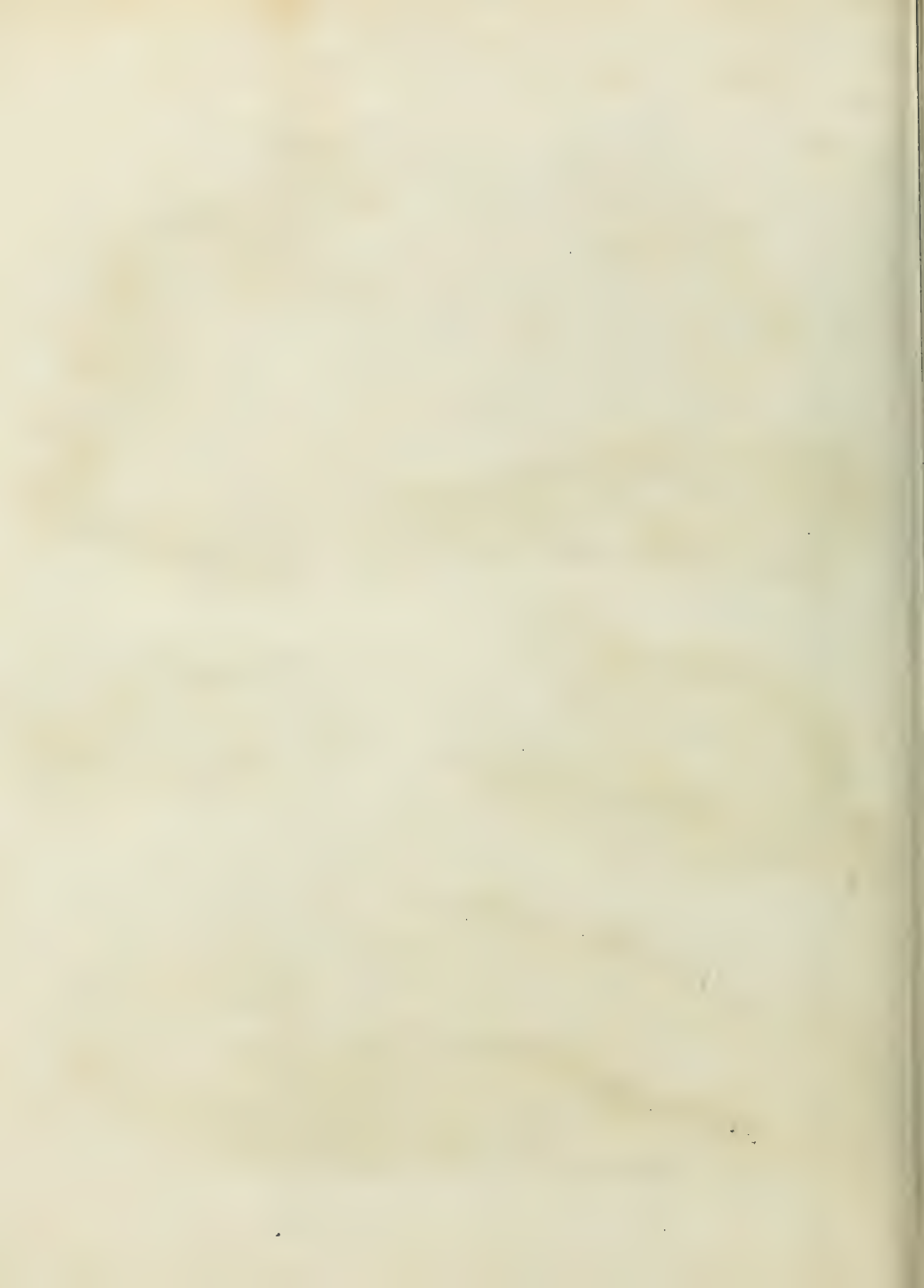


QUADRUPEDS.

CLASS MAMMALIA. ORDER GLIRES. GENUS DIPSUS. JERBOA. GENUS LEPUS, HARE. GENUS HYRAX.



1. Dipus Jaculus Alagtaga. 2. D. Sagitta Arabian I. 3. D. Cafer Cape I.
 1. Lepus Timidus Common Hare. 5 L. Alpinus Alpine H. 6. Hyrax Capensis Cape Hyrax.



QUADRUPEDS
MAMMALIA ORDER PECORA GENUS, CAMELUS



1



1 Camelus Dromedarius. Arabian Camel, or Dromedary. 2. Camelus Bactrianus. Bactrian Camel.



QUADRUPEDS

CLASS MAMMALIA. GENUS MOSCHUS MUSK. GENUS CERVUS DEER.



1. *Moschus Moschiferus*. Thibet Musk. 2. *Mospygæus*. Guinea M. 3. *M. Javanicus*. Java M. 4. *Cervus Alces*. Elk.



QUADRUPEDS.

MAMMALIA GENUS CERVUS GENUS CAMELOPARDALIS.

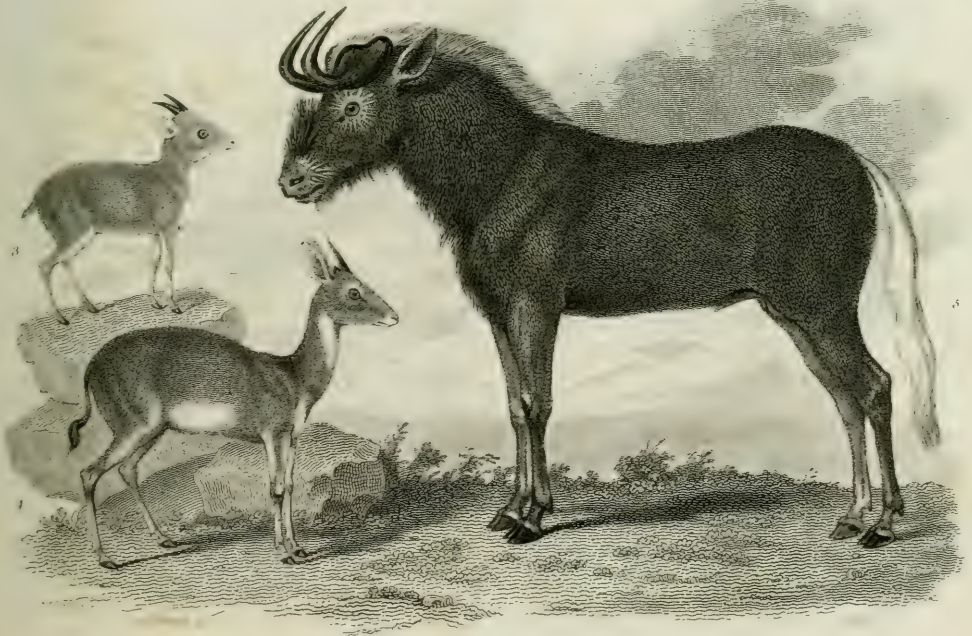


1. C. Tarandus Rein Deer — 2. C. Elaphus Stag Hart or Red Deer — 3. C. Axis Spotted Axis — 4. Camelopardalis Giraffa Camelopard.

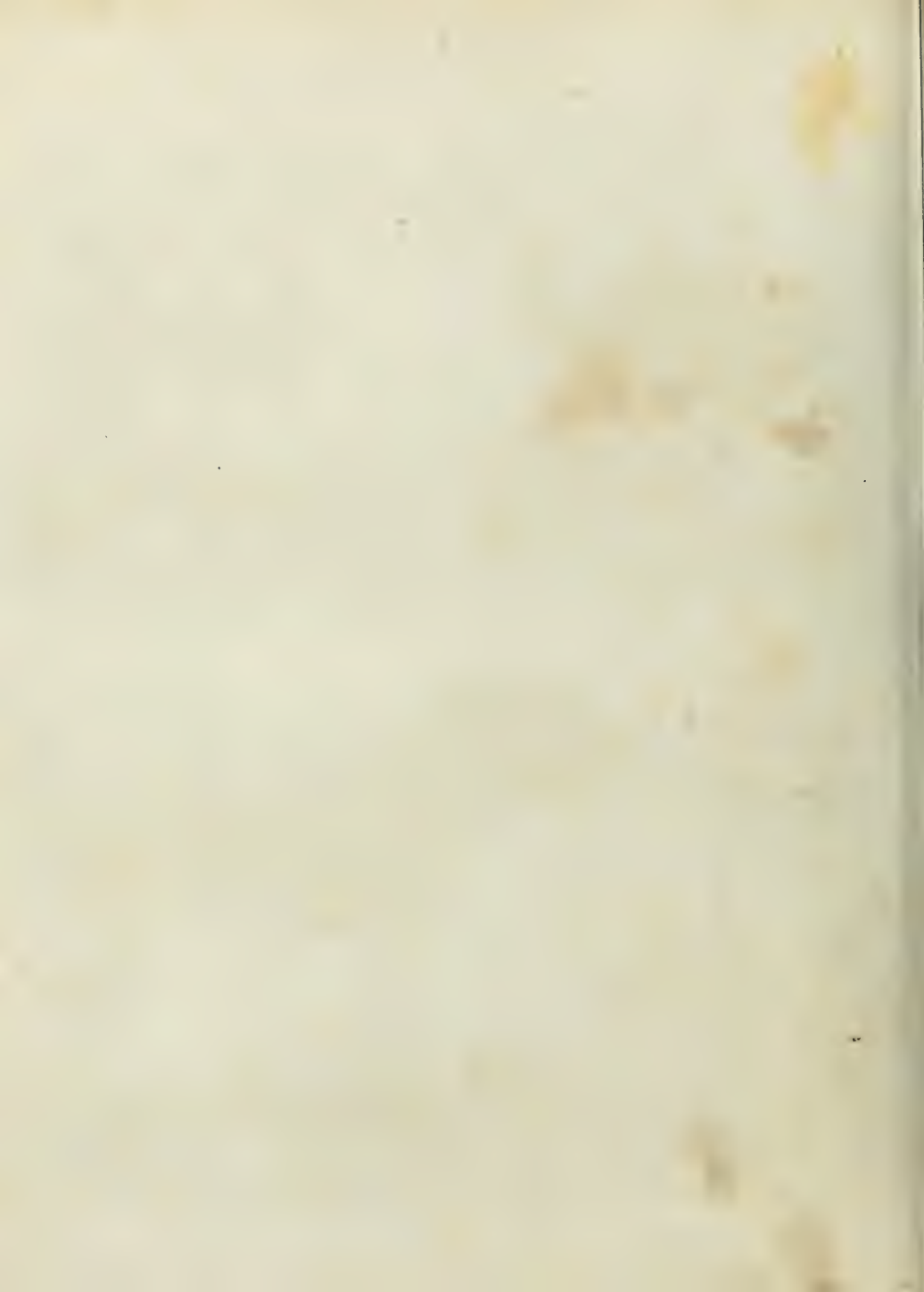


QUADRUPEDS.

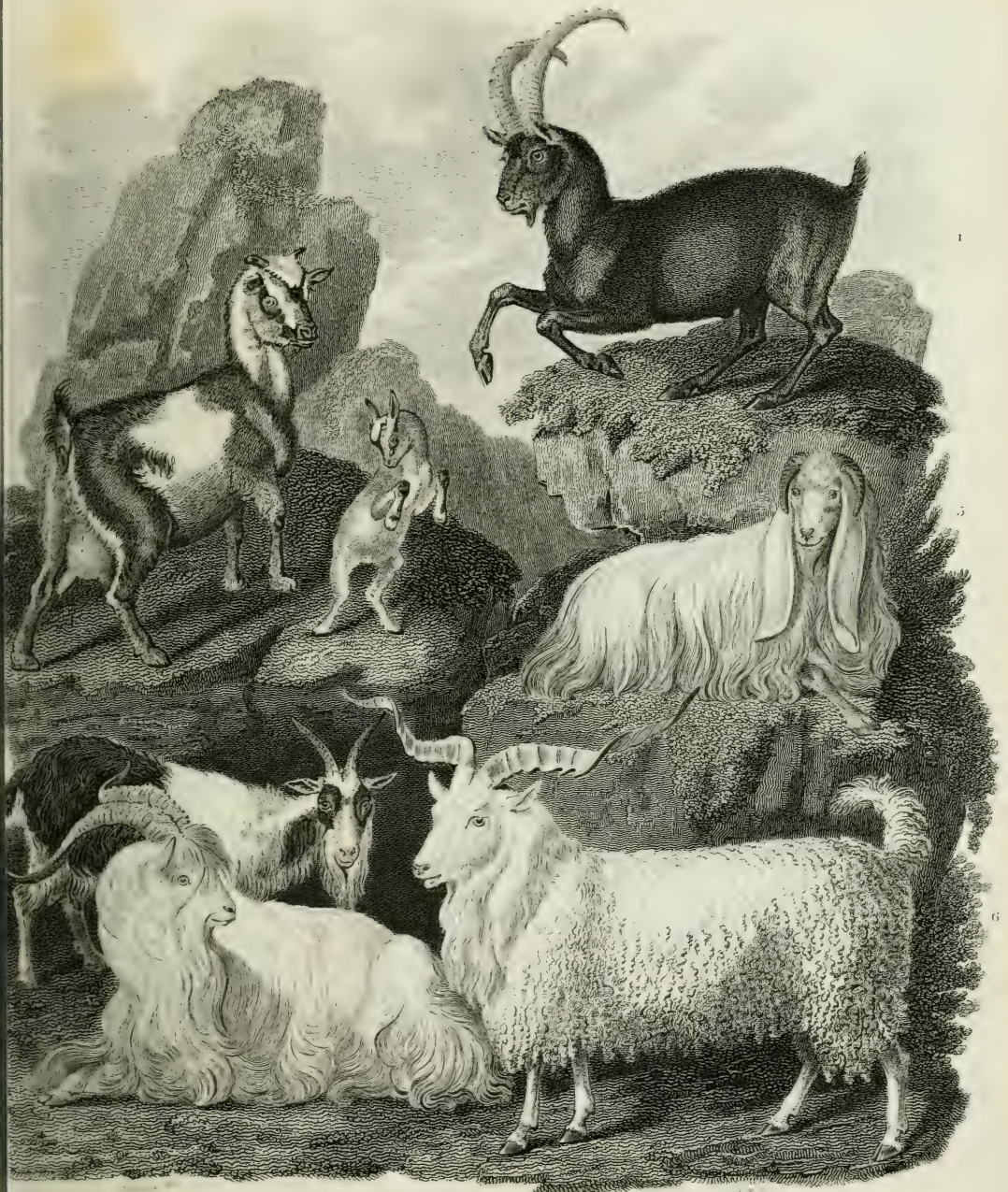
CLASS MAMMALIA. GENUS ANTILOPE. ANTELOPE.



1. A. *Hippocapra Chamois* A. 2. A. *Cervicapra Common* A. 3. A. *Pygmae Royal* A. 4. A. *Grimmea Guinea* A. 5. A. *Gnu*. Grou A.



QUADRUPEDS.
MAMMALIA GENUS CAPRA. GOAT.



1. C. Ibex. Ibex Goat. 2. 3. C. Agagrus Common British Mountain Goat.
4. Common Domesticated Goat. 5. Syrian Goat. 6. Angora Goat.

Published as the Act directs, April 25. 1809, by Longman, Hurst, Rees, & Orme, Printers: Row.



QUADRUPEDS.
OVIS ARIES. COMMON SHEEP.



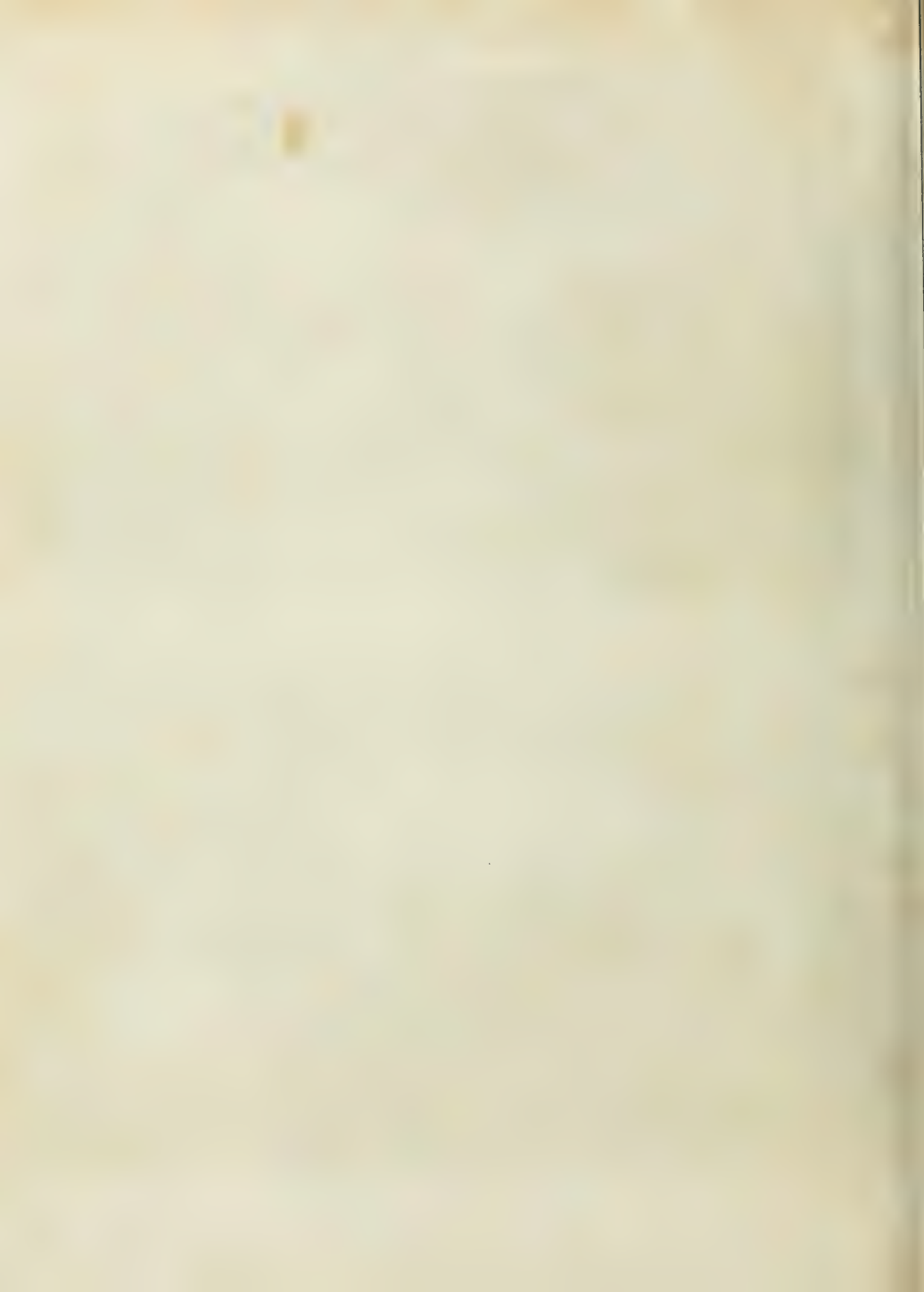
South Down Polled Sheep of the improved breeds. From the Stock of the late Duke of Bedford, Woburn.



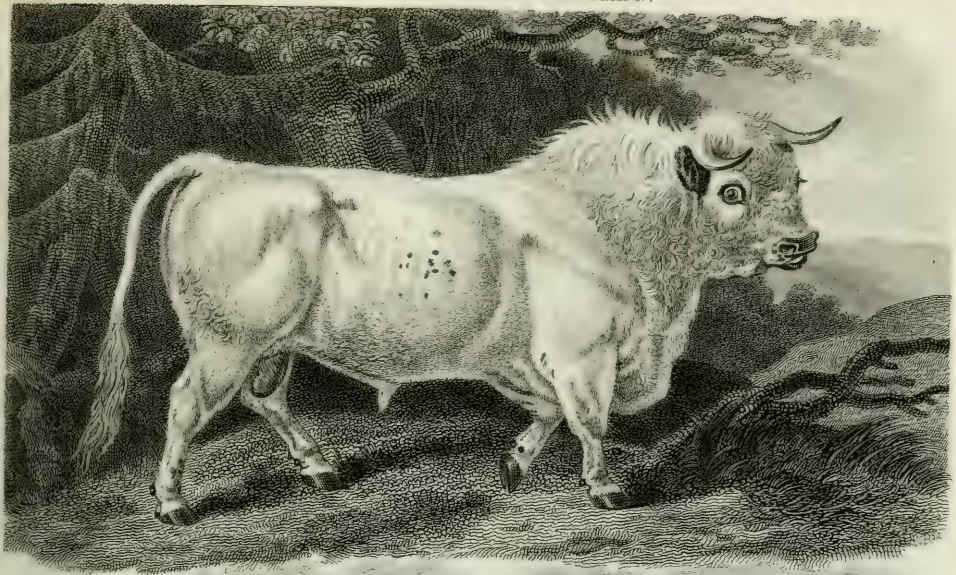
QUADRUPEDS.
GENUS OVIS. SHEEP VAR. HORSED SHEEP.



1 Norfolk Breed. 2. Merfordshire Breed.



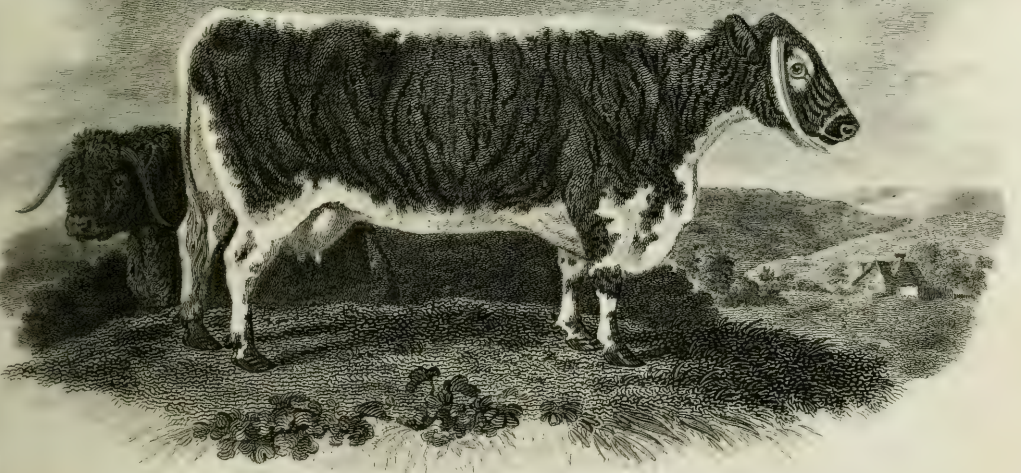
QUADRUPEDS
BOS TAURUS. WILD OX OF SCOTLAND.



1 The Bull. — The Cow and Calf.

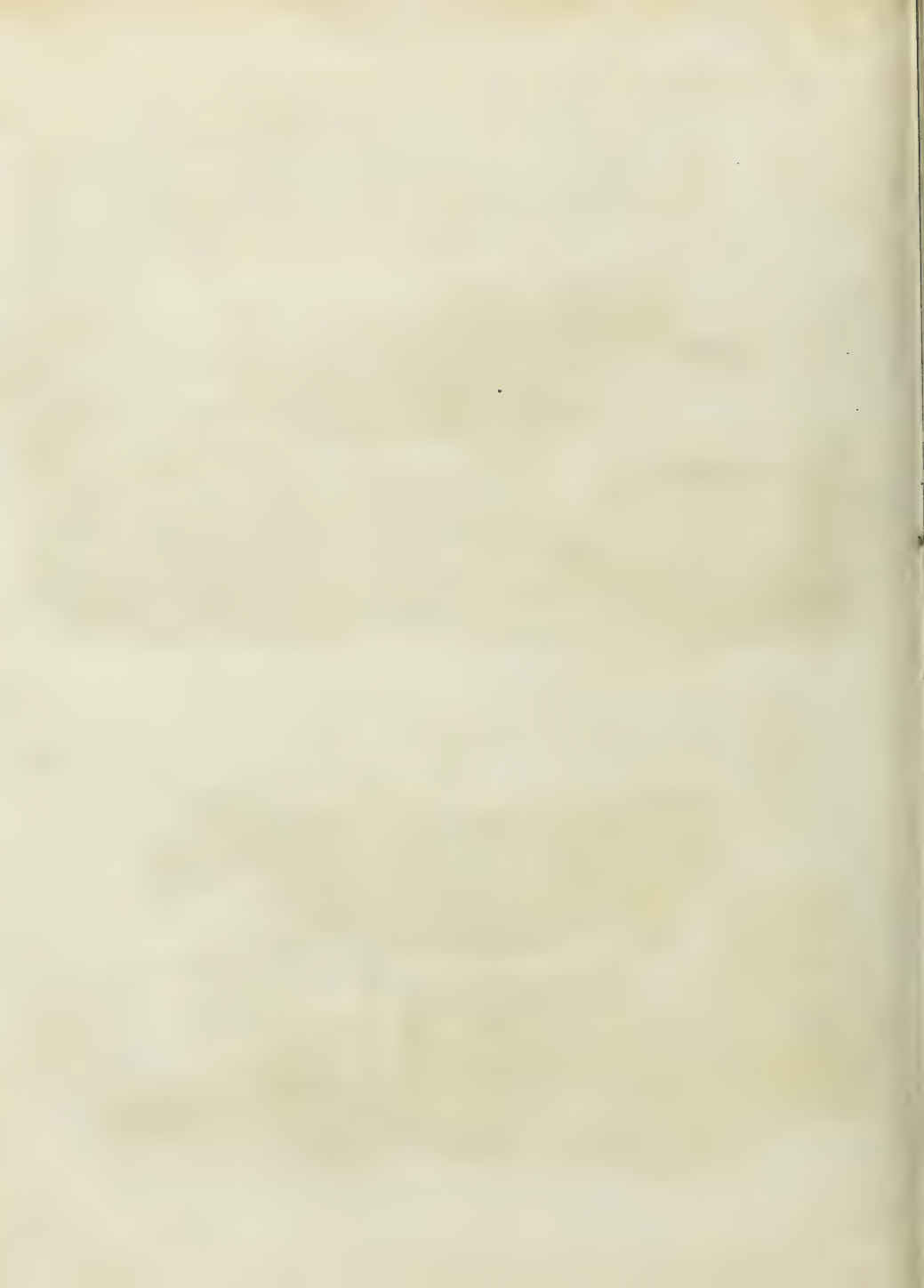


QUADRUPEDS
BOS TAURUS. OXEN.



Long Horned or Lancashire Breed

Engraved by J. G. ...

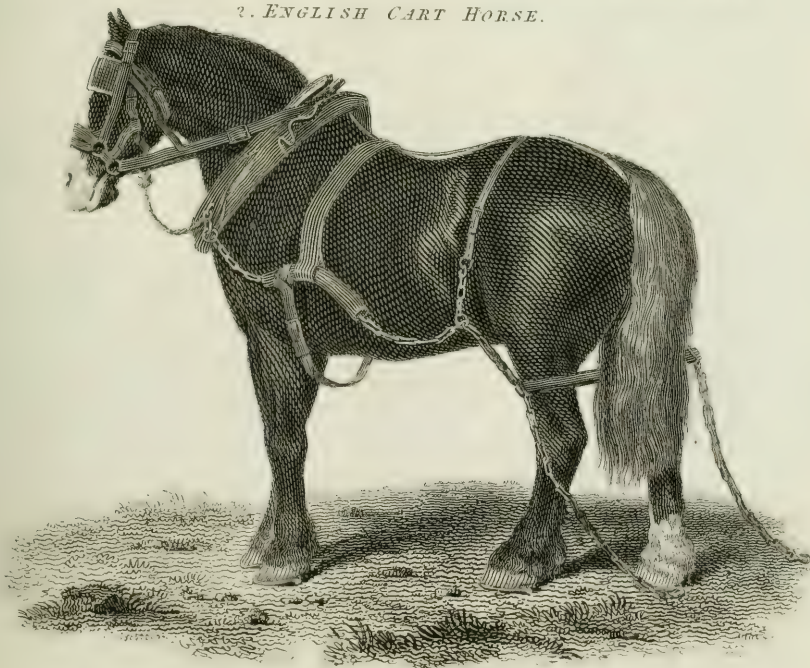


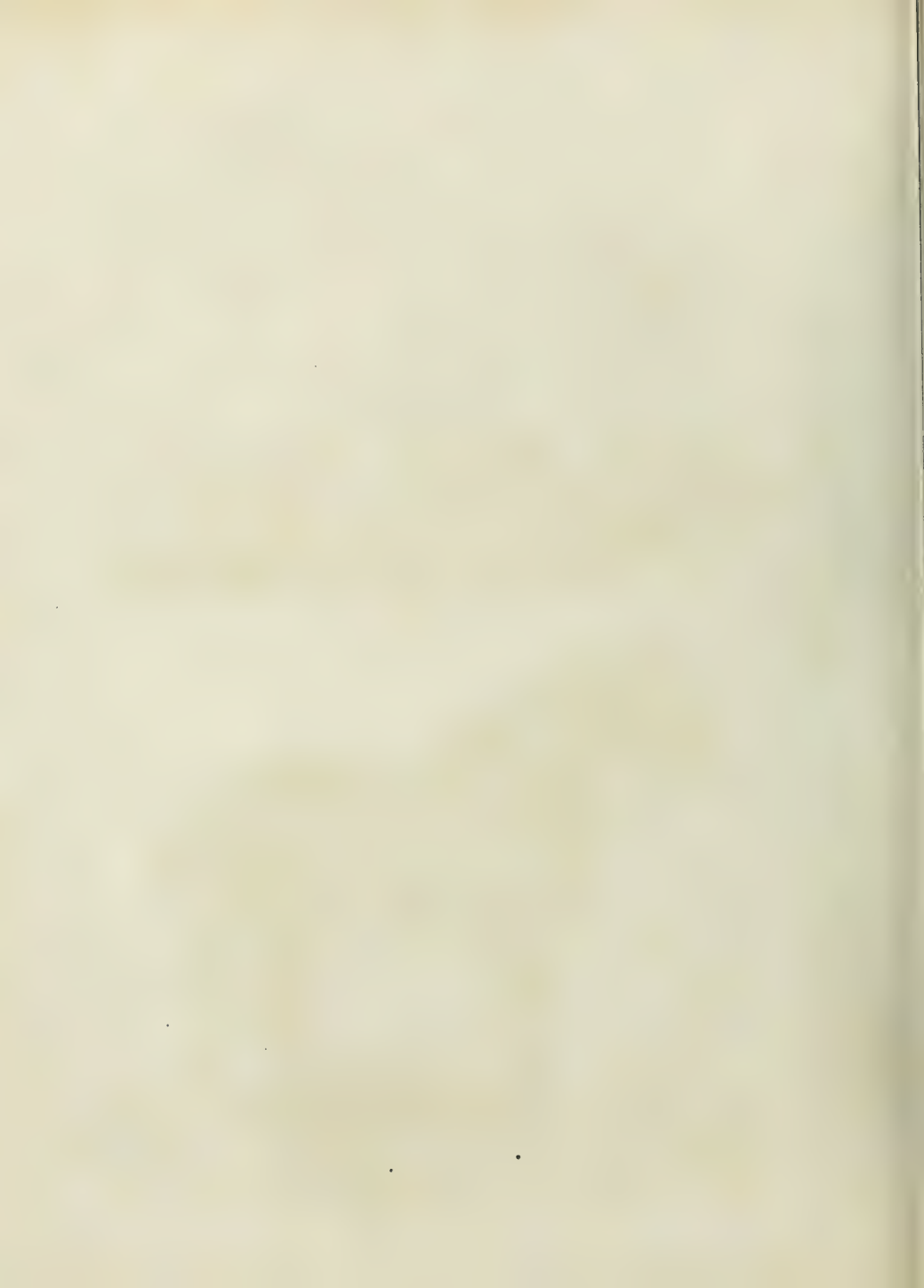
HORSES.
1. SHETLAND PONEY.

PLATE I.

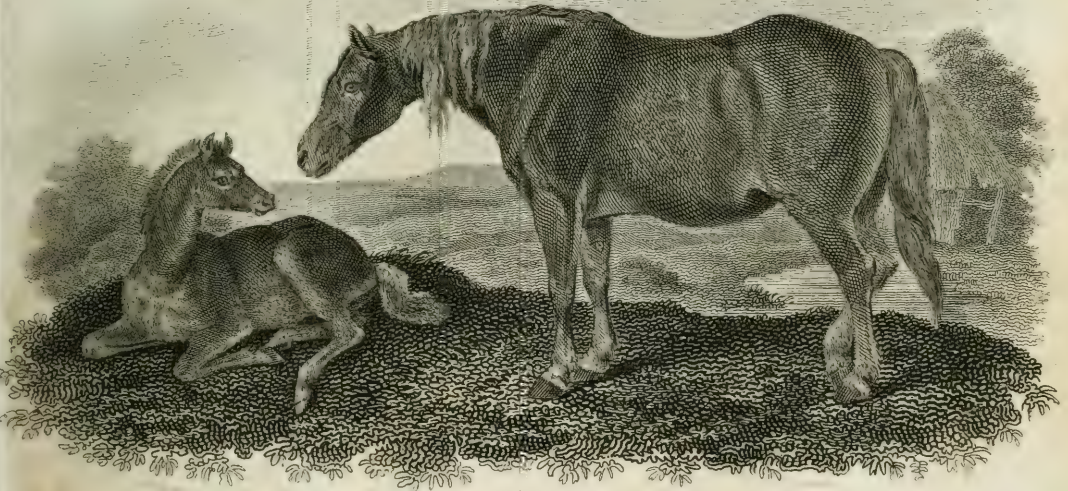


2. ENGLISH CART HORSE.





QUARTER HORSE.
Class 15 Mammalia. Order VI. Belluae. Genus 33. Equus.
SUFFOLK AGRICULTURE & FENCH HORSE.



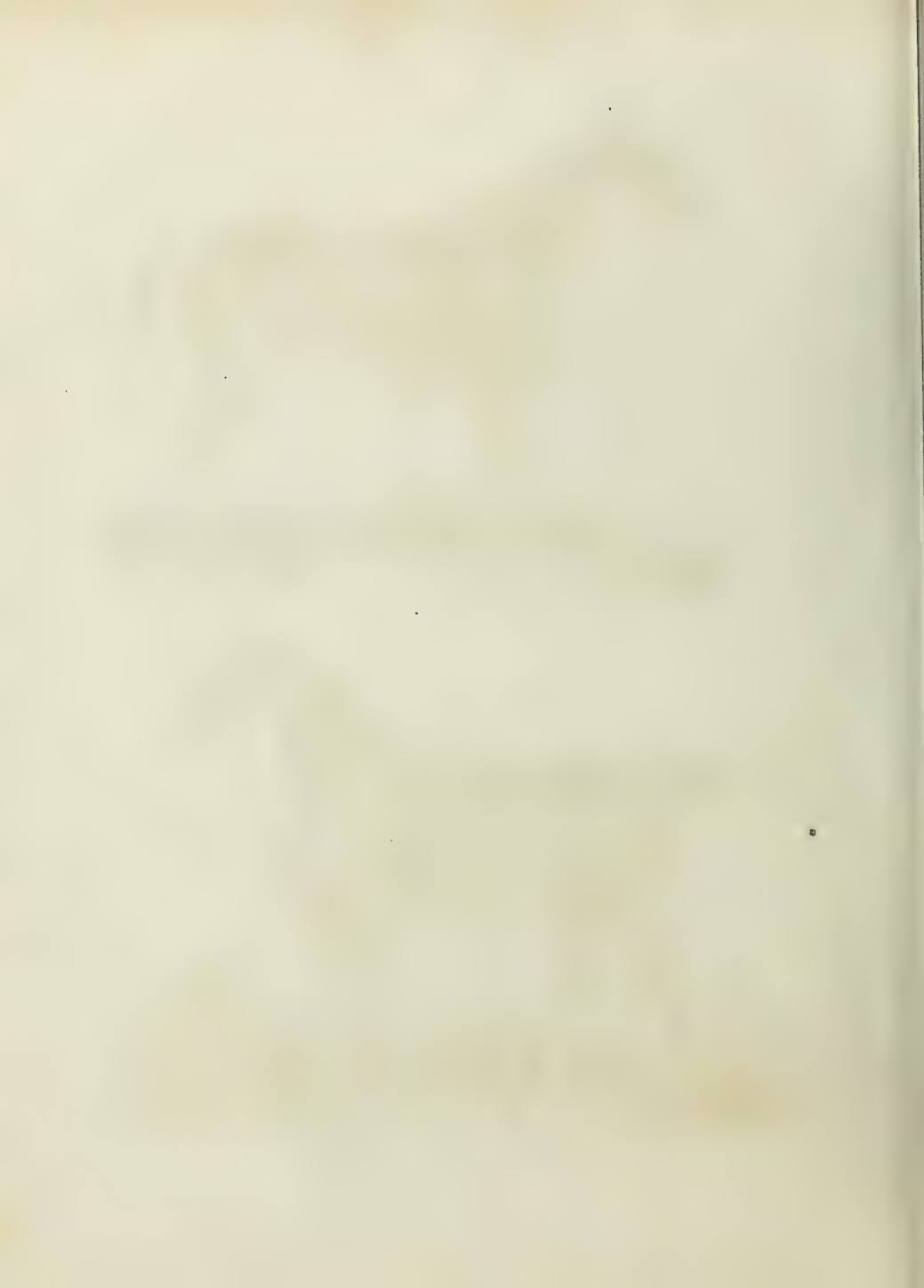
Small Mare & Foal from the Stock of the late Duke of Bedford.



QUADRUPEDS.
GENUS EQUUS. HORSE.



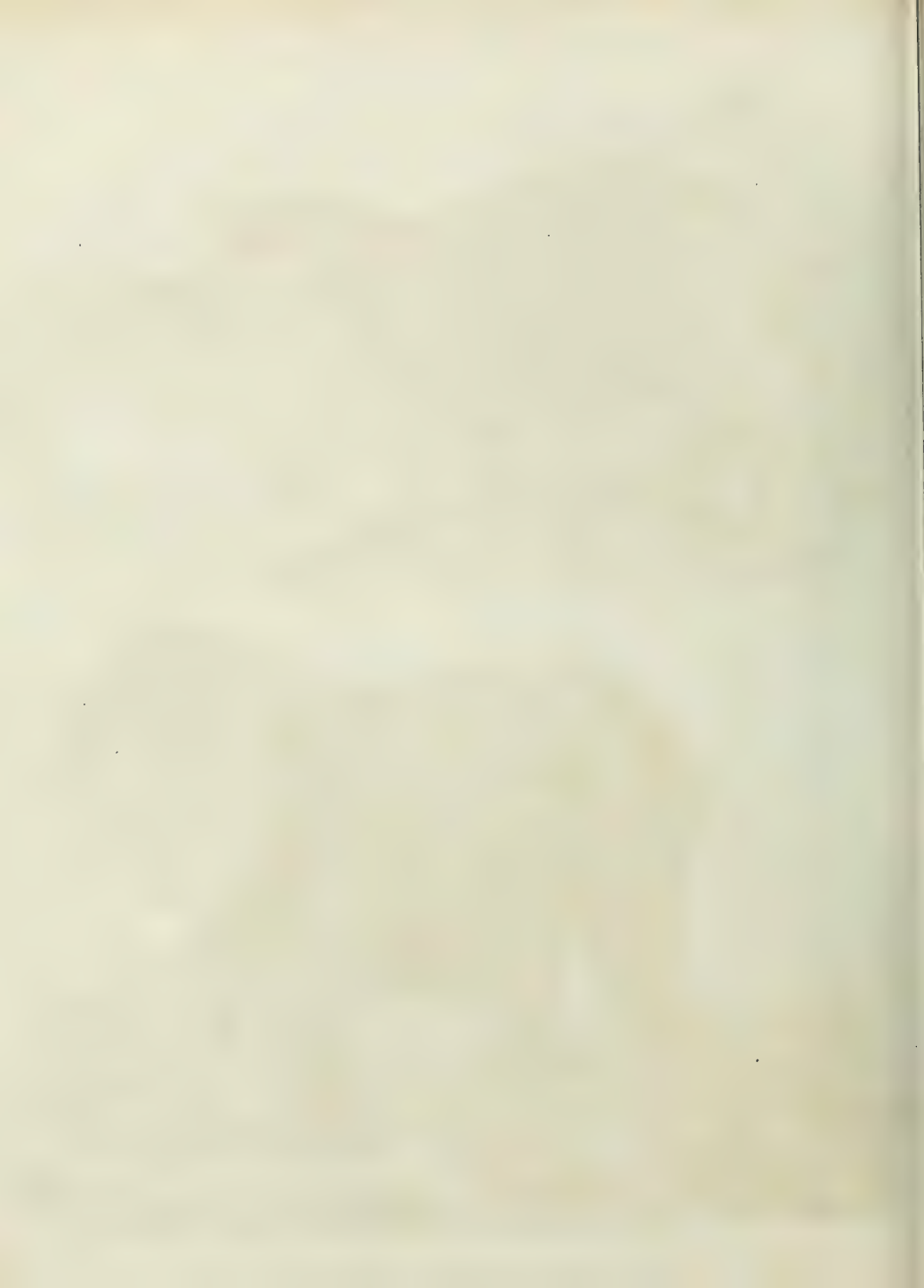
1 Race Horse Royalist. 2 The Hunter Skylark.



QUADRUPEDS
ORDER BELLUA. GENUS HIPPOPOTAMUS. GENUS TAPIR.

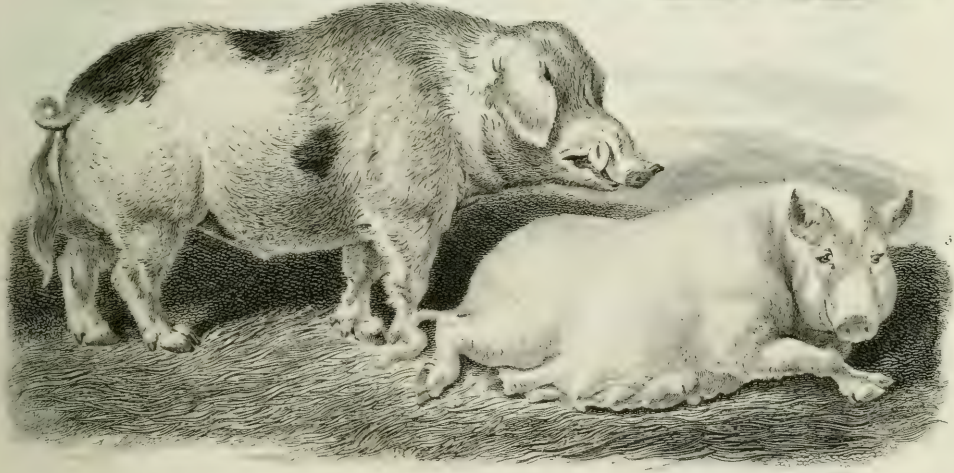


1. Hippopotamus Amphibius. Hippopotamus. 2. Tapir Americanus. Tapir.
From an Original Drawing in the Collection of E. Woodford Esq'

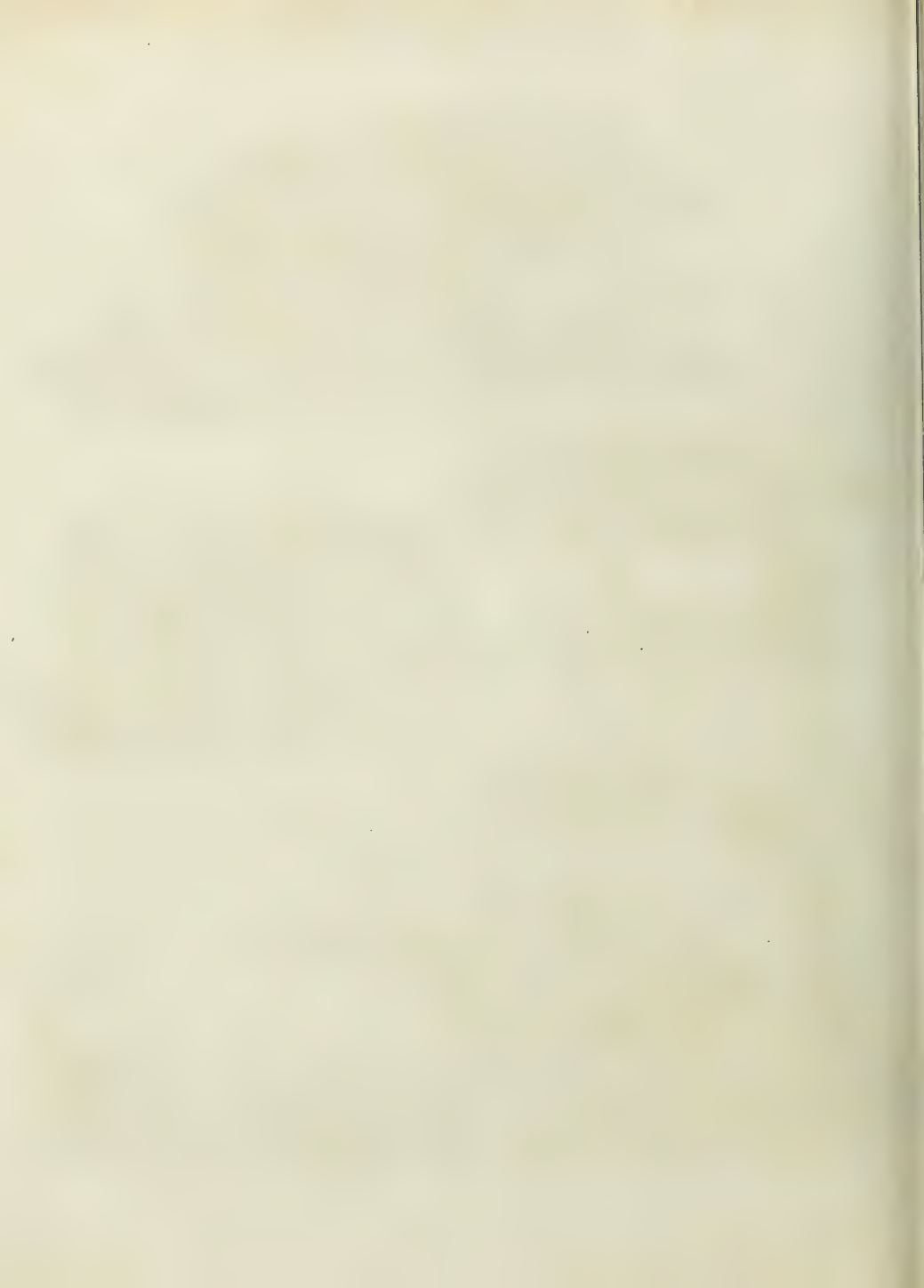


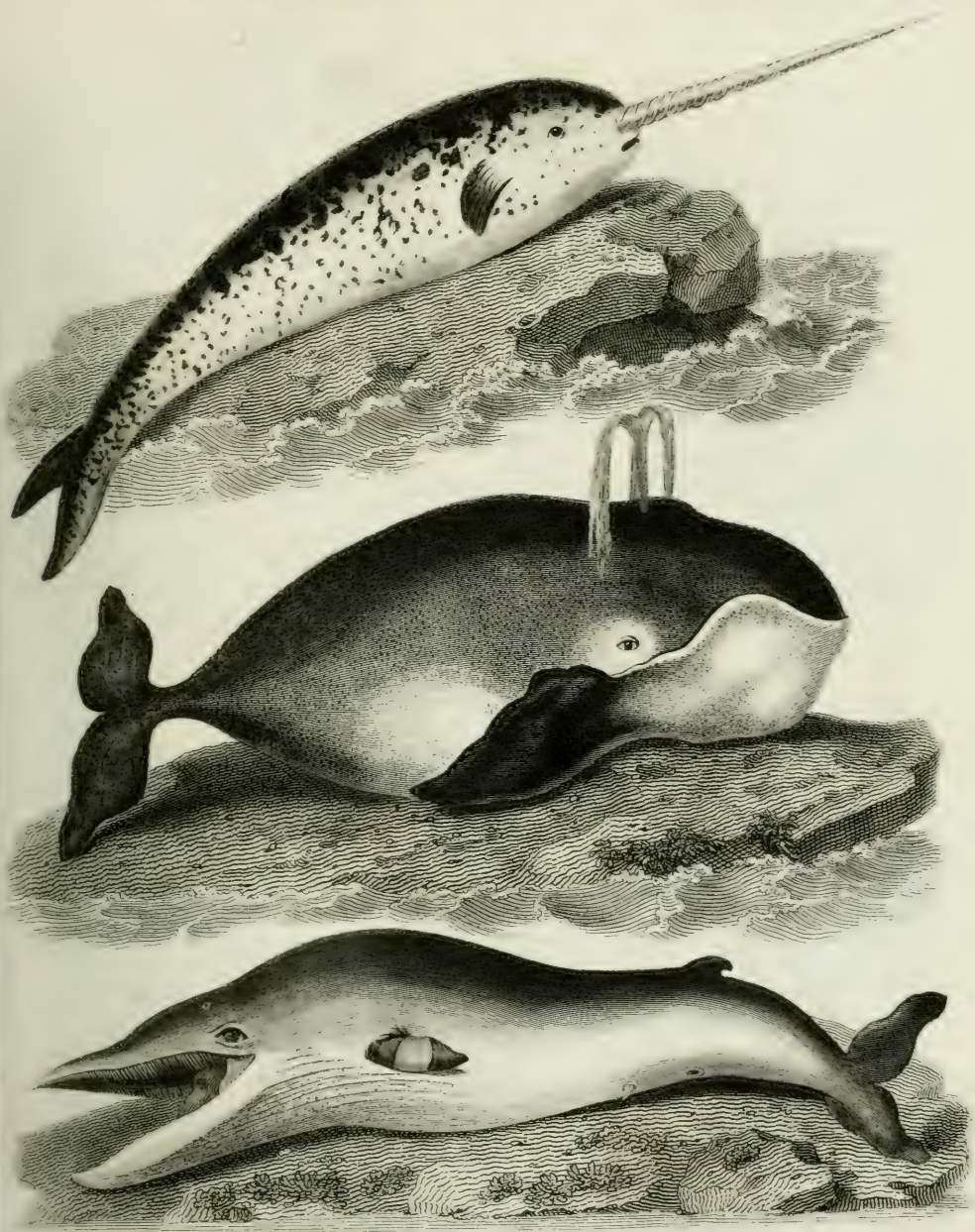
QUADRUPEDS.

CLASS MAMMALIA. ORDER BELLUÆ. GENUS SES. HOG.

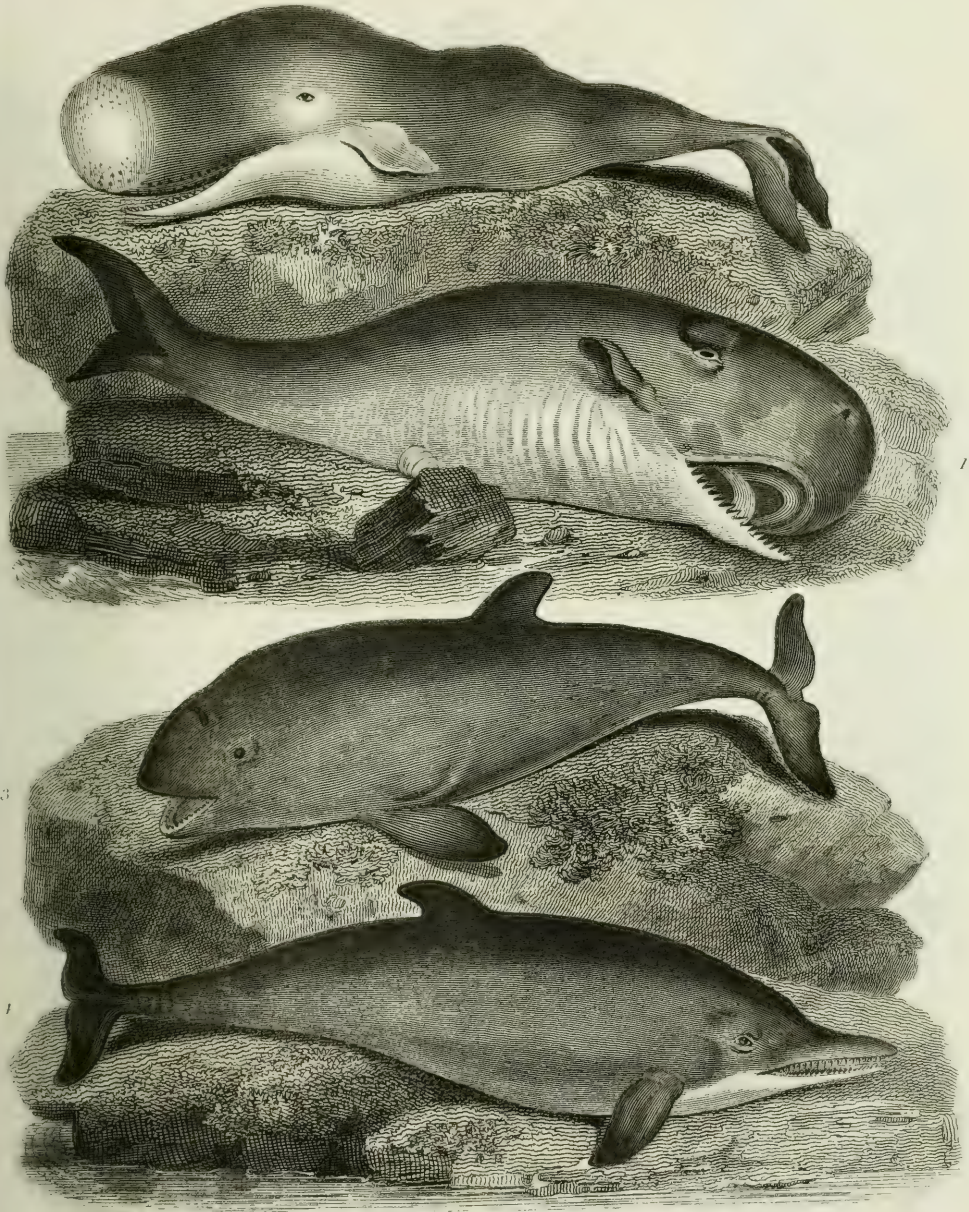


1. S. Senegal Wild Hog 2. S. Belluæ B. hircus 3. S. Æthiopicus. Æthiopian H. 4. 5. Domestic H.

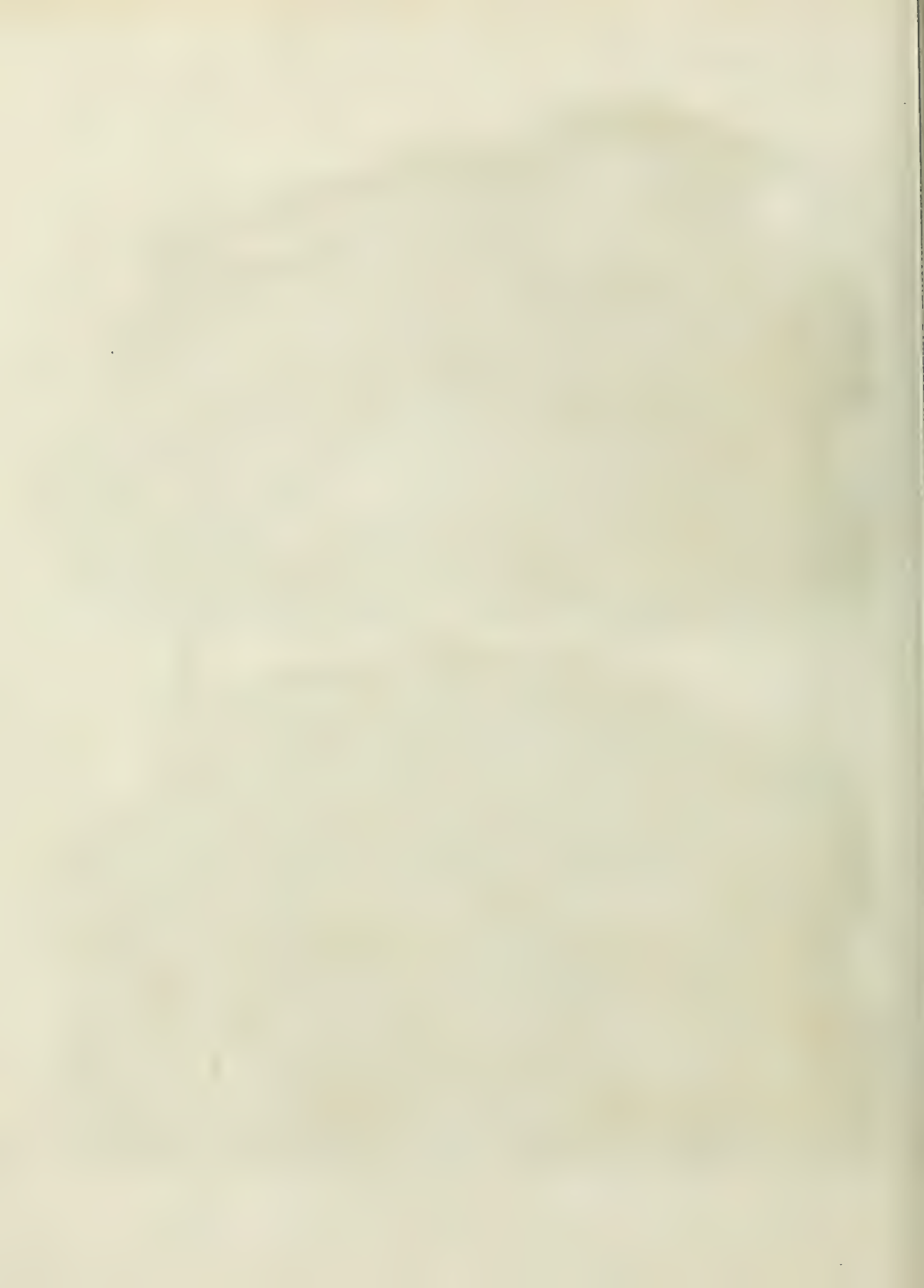








1. P. Macrocephalus. Blunt headed C. — 2. M. P. Gibbosus Schreb. Gibbous C. — 3. D. Phocoena Porpoise. — 4. D. Delphis Dolphin



GENUS I. Vulture

GEN II. Falcon



Condor of Mayellan.

Golden Eagle.

G. III. Strix.

G. II.

G. II.



Falcon Gentil.

Horned Owl.

Small Owl

Hobby





GENUS *PSITTACUS*.

Parrot

1. *P. Macao* 2. *P. Alexandri* 3. *P. Estivus* var. 4. *P. Garrulus* var. 5. *P. Moluccensis* 6. *P. Banksii* 7. *P. Pullarius* .





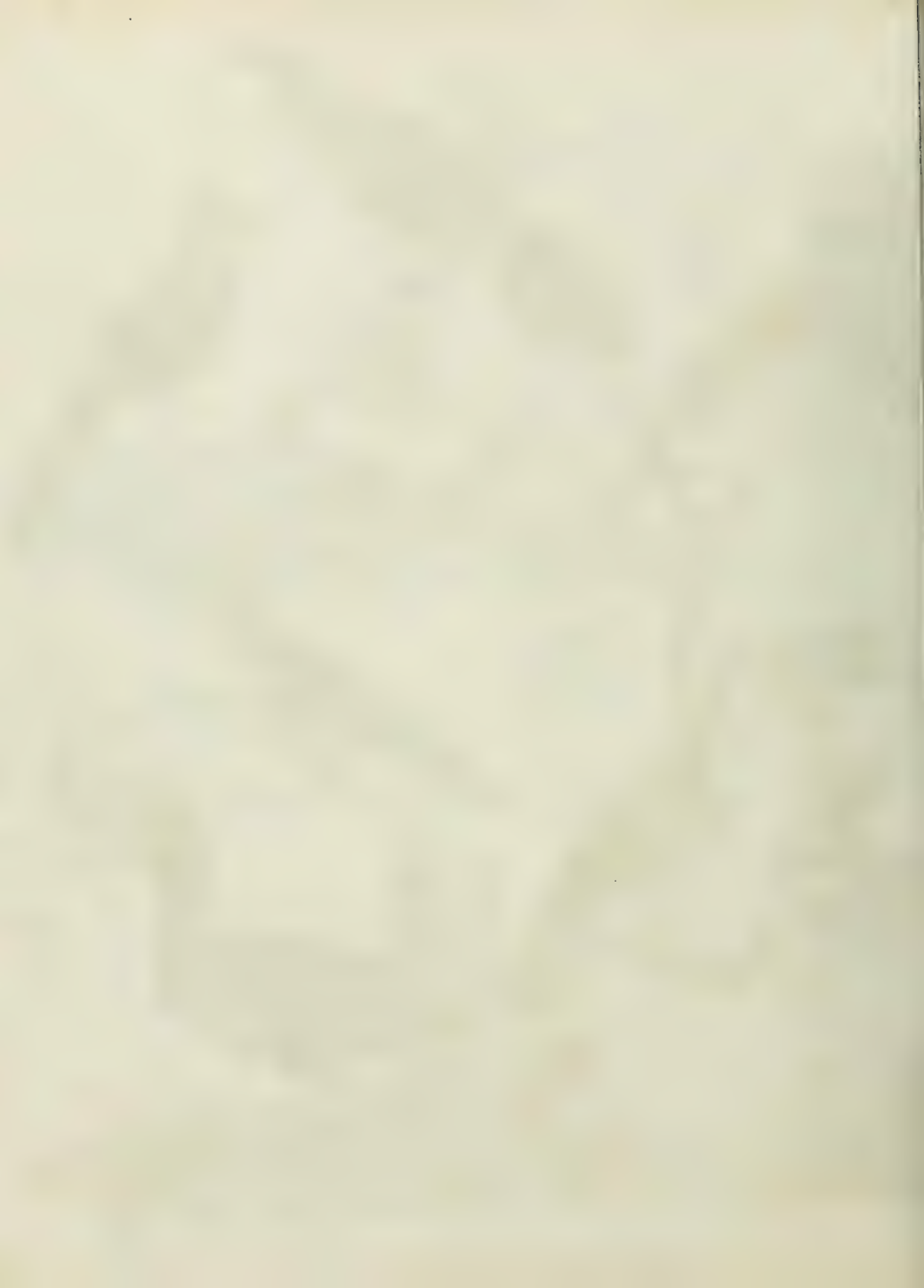
GENUS *RAMPHASTOS*
(Toucan)
1. *R. flaviventer*. - 2. *R. aracani*.

G. BUCEROS
(Hornbill)
2. *B. rhinoceros*.

G. MYIAGRA
(Beef Lark)
1. *B. africana*.

G. CROTAPHAGI
(Ani Bird)
2. *C. major*.

G. GLAUCOPIUS
(Wattle Bird)
6. *C. cinerea*.



Div. 1. *Local birds.* Order: PICI.



GENUS *CORVUS* Cuv.

G. CORACIAS Vieill.

C. Corax
Raven

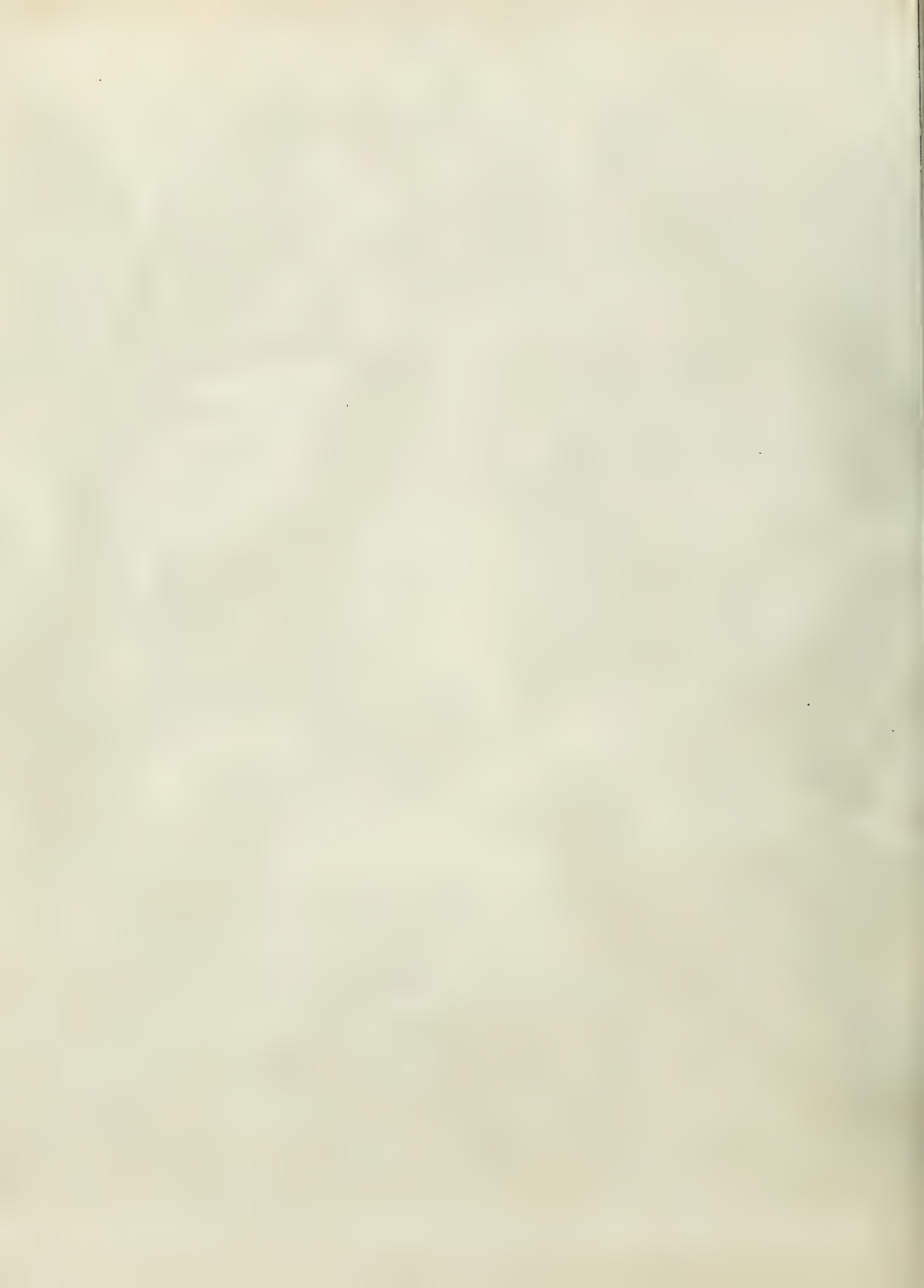
C. Corax
MAGPIE

C. Corax
Magpie

C. Corax
Magpie

C. Corax
Magpie

C. Corax
Magpie



Dir^o 1^o Land Birds. Order 2^o PICAV.



GENUS ORNITHOLUS.
(Oriole)

4 NEST of
O. BALTIMORENSIS.

GENUS CUCULUS
(Cuckoo)

- 1. O. CRISTATUS.
- 2. O. BALTIMORUS.
- 3. O. PERSICUS.
- CESTED O. BALTIMORE O. BLACK & YELLOW O.

- 5. C. CANORUS.
- 6. C. CUPREUS.
- 7. C. ILLINOISOR.
- COMMON C. CUPREUS C. HONEY GUIDE C.



Div. 1st. Land Birds. Order 2^d. PICS.



GENUS *CRACCI*

Crackle

- 1. *G. Quiscal.*
 - 2. *G. Carya.*
 - 3. *G. Sauralis.*
- PURPLE G.
BIRD G.
BULL G.

G. PARADISEI

Bird of Paradise

- 4. *P. Regina.*
 - 5. *P. Ispida.*
 - 6. *P. Java.*
- KING BIRD S^T.
GREATER BIRD S^T.
GOLDEN BIRD S^T.

G. TODUS

Tody

- 7. *T. Macrodon.*
- GREAT BILLED

Let. Aviclar. Mar. 1767. by Leonard Hout Esq. & Owen Edwards scilicet





Genus *TROGON*.

(Carucui)

1. *T. Carucui*

RED BELLED C.

G. BUCCO.

(Barbet)

2. *B. Lathami* - 3. *B. Guyanensis* var.

BLACK SPOTTED B.

G. VYX.

(Wynneck)

4. *V. Torquilla*.

COMMON WYNECK

G. PICUS.

(Woodpecker)

5. *P. Feltus* - 6. *P. Carolinus* var.

PLEATED W. CAROLINA WYNECK

G. SITTIS.

(Nuthatch)

7. *S. Europæa*.





GENUS ALCEDO

Kingsfisher

1. A. Cristata
CRESTED K.

2. A. Venerata
VENERATED K.

3. A. Alcyon
BELTED K.

4. A. Sacra
SACRED K.

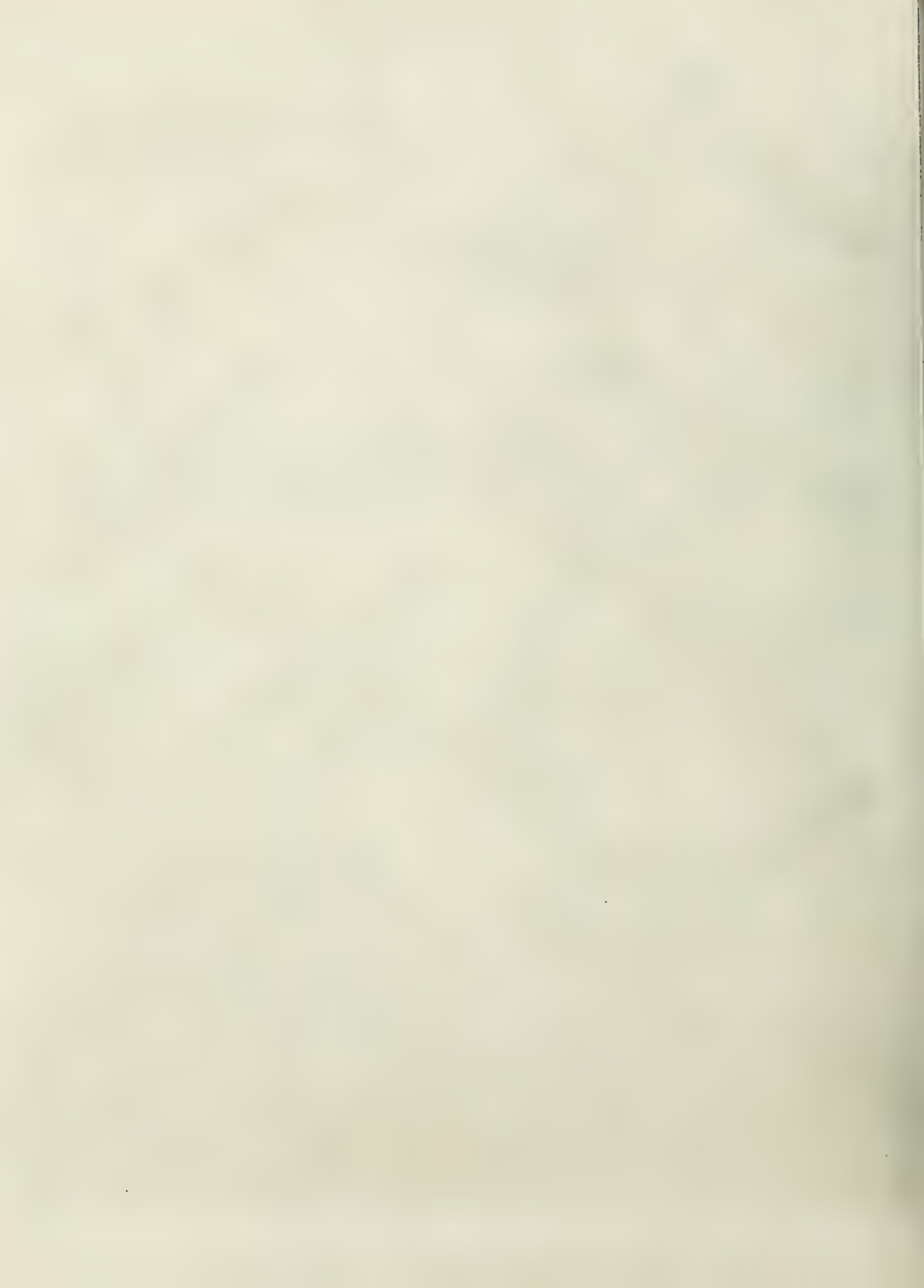
G. GALBULA

(Jacamar)

5. G. Paradisi
PARADISE J.

6. G. Viridis
GREEN J.

Published as the Act directs, Sep. 1st 1839 by Longman Street, Bow & Crane, Printmaster Row.





GENU'S MEROPS
 (Bee Eater)

1. *M. Gurnedatus*.
 WATTLEED B.E.

2. *M. Nova Zelandie*.
 NEW ZEALAND B.E.

3. *U. Pruniceps*.
 CAPE H.

G. UPUPA
 (Hoopoe)

4. *U. Epops*.
 COMMON H.

5. *U. Erythrorhynchus*.
 RED BILLED H.

W. A. Woodcut

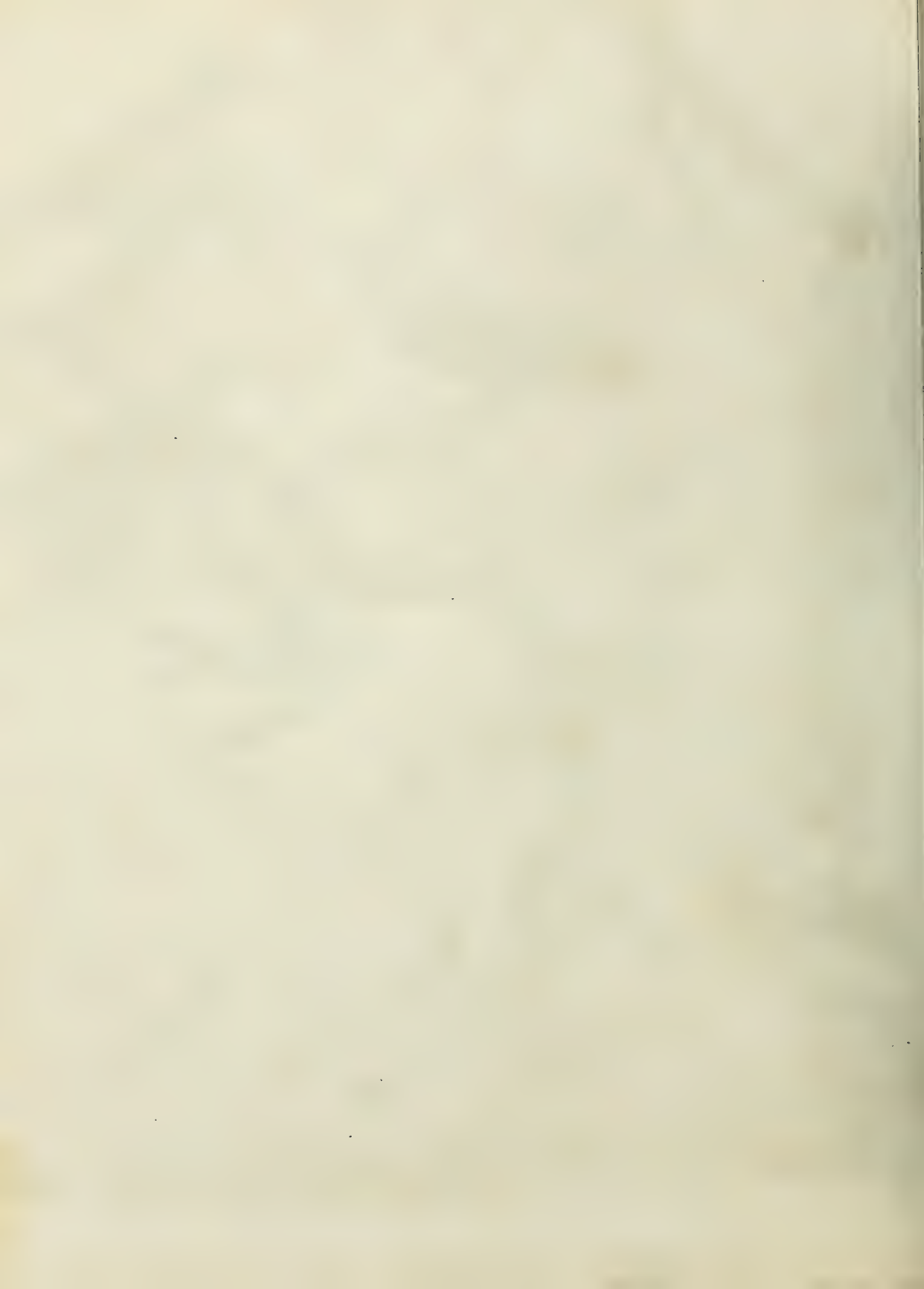
Milton sculp

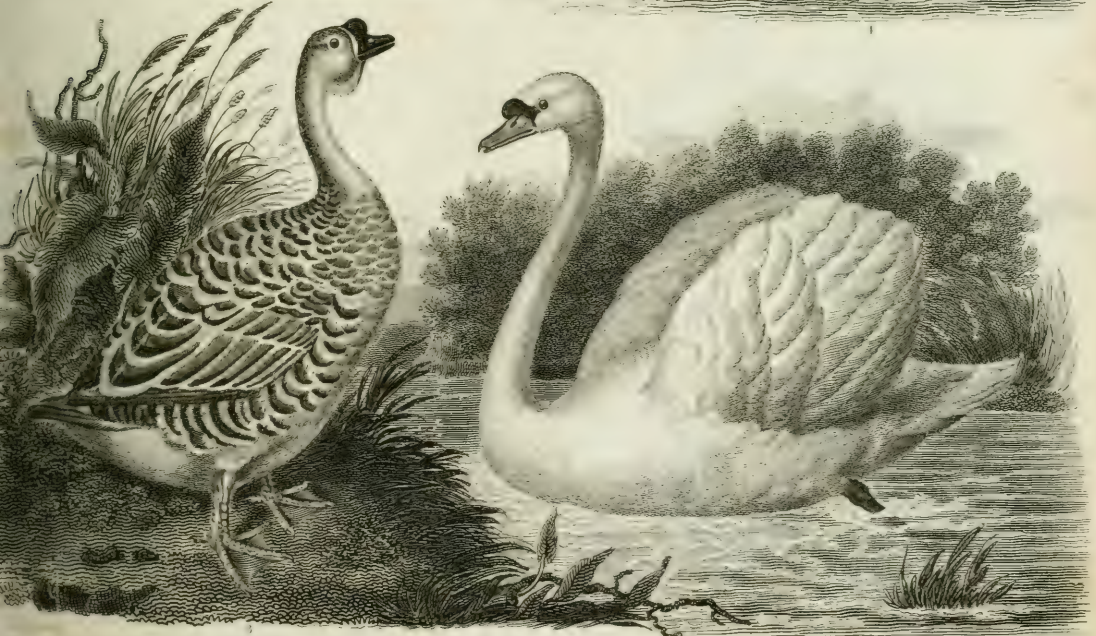
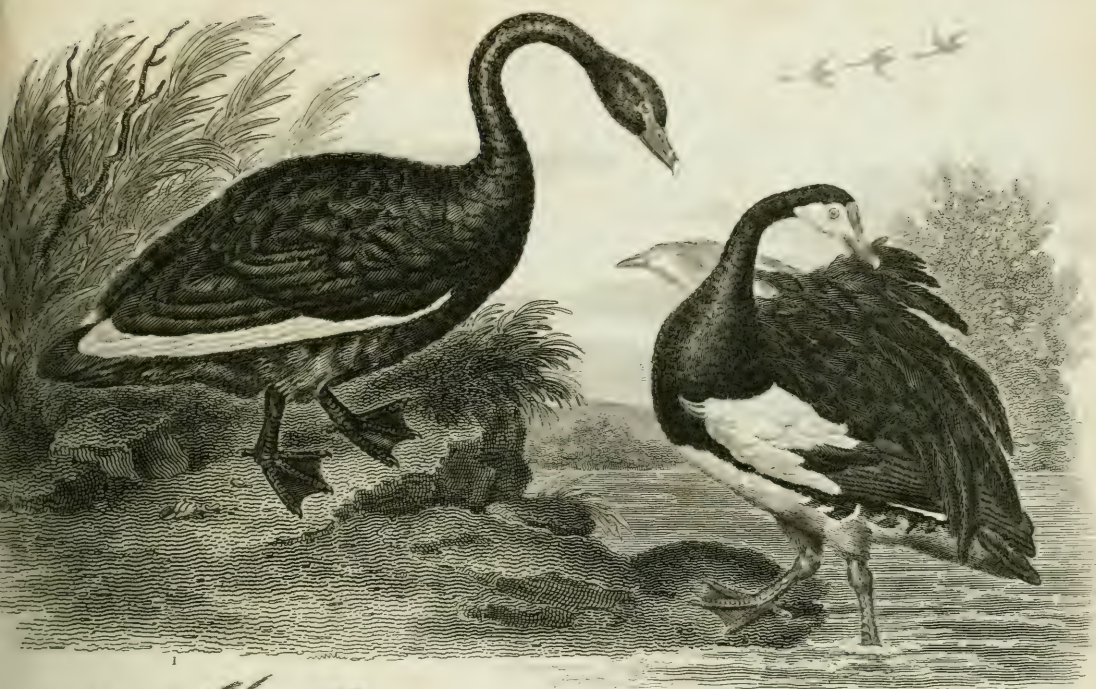




1. *C. Pacifica* 2. *C. Obscura* 3. *C. Coccinea* 4. *C. Corallina* 5. *T. Ptila* 6. *T. Alpestris* 7. *T. Phoeniceus* 8. *T. Comatus* 9. *T. ...*
 10. *T. ...*

Published at Van Nostrand's, No. 27 N. 3rd St. N. York, U.S.A.





GENUS *ANAS*

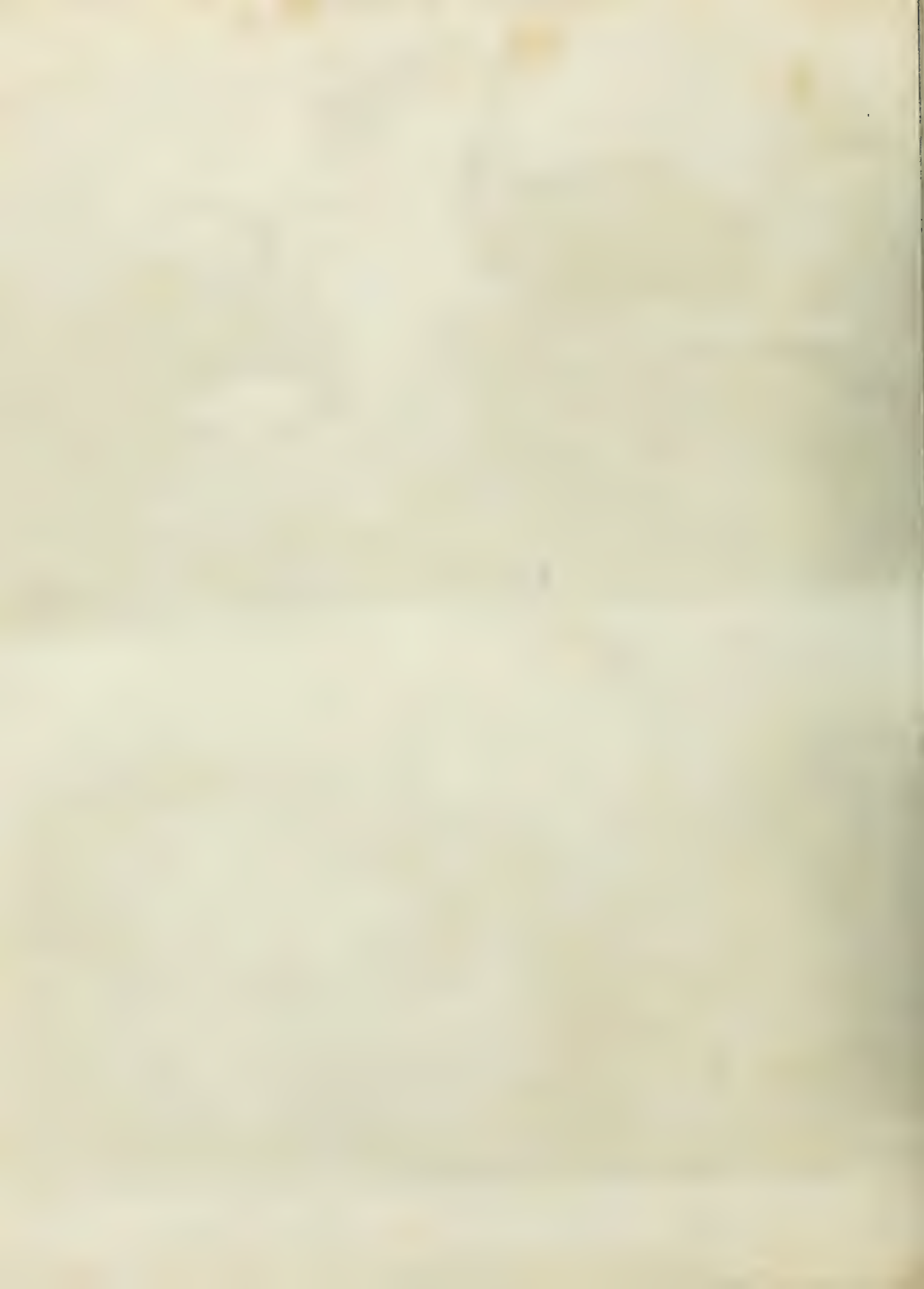
1. *A. Anas*.
BLACK S.

2. *A. Obol.*
TAME S.

(Swan)

3. *A. Cynoides*.
CHINESE GOOSE.

4. *A. Gambel.*
SPUR WINGED G.





GENUS *ANAS*
Swan

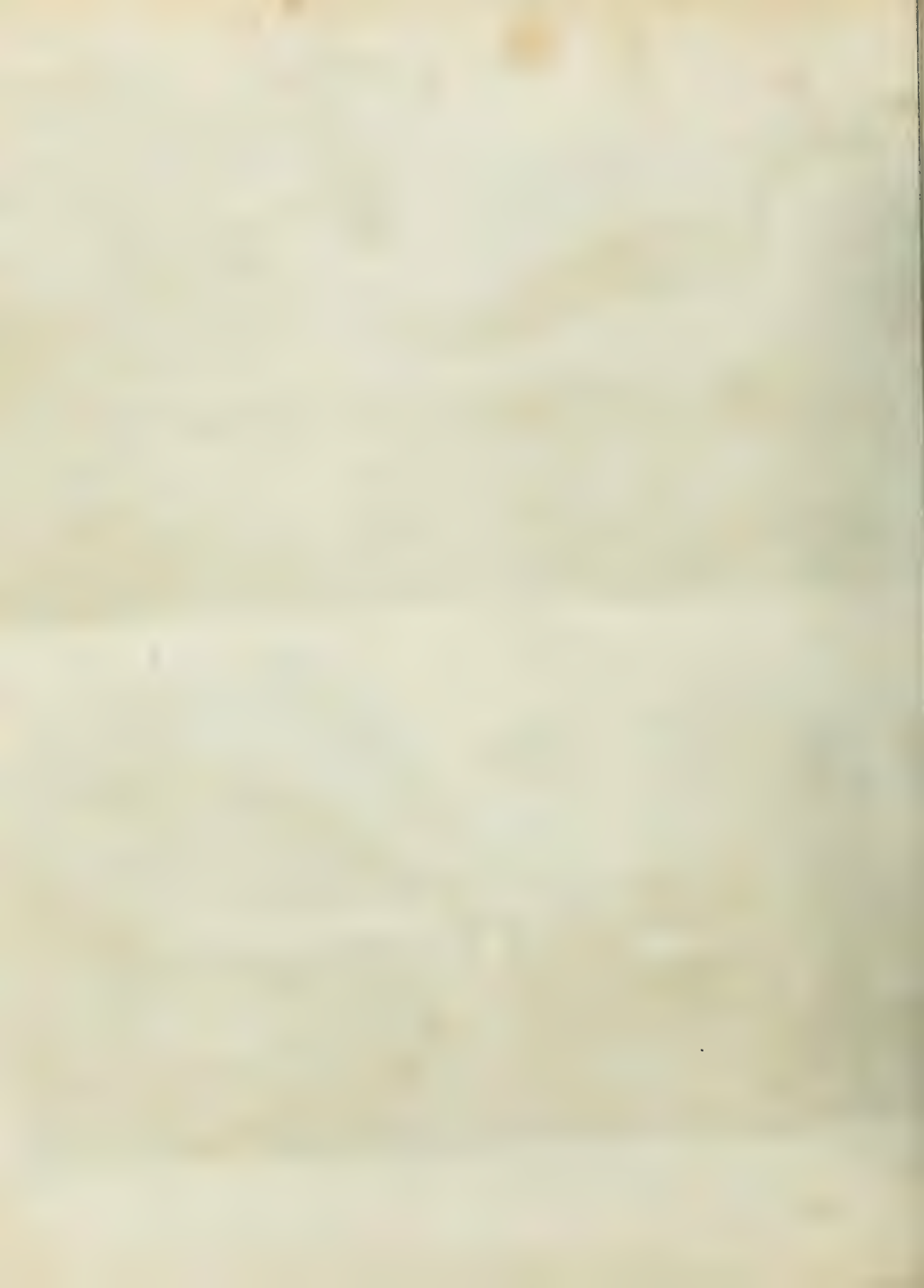
1. *A. erythropterus*.
BENNETT'S GOOSE

2. *A. canadensis*.
CANADA G.

3. *A. spicabilis*.
GREY HEADED DUCK.

4. *A. moschata*.
MUSCOVY D.

Published as the Act directs April 1st 1806 by Longman W. & Co. & Orme Paternoster Row.



ORNITHOLOGY.

Div^o 2^d Water Birds — Order 3^d ANSERES.

PLATE I
of Order 1.



1. *A. Tardona*
SHELDRAKE.

2. *A. Clypeata*
SHOVELER.

3. *A. Creca*
TEAL.

GENUS *ANAS*
(Swan)

4. *A. Curvirostra*
HOOK BILLED DUCK.

5. *A. Boschas*
MILLARD.

6. *A. Galericulata*
MANDERINE DRAKE.

Published as the Act directs, Sep. 1st 1805 by Longman Hurst, Bree & Co. Printers in the Strand.





GENUS Mergus

Merganser

1. M. *Merganser*

2. M. *Cucullatus*

GOOSLINGER

CRESTED M.

3. M. *Ubellus*

SMEW

GENUS Alca

(Auk)

4. A. *Antiqua*

ANCIENT I.

5. A. *Albifrons*

TUFTED I.

GENUS Diomedea

(Penguin)

6. A. *Patagonica*

PATAGONIAN P.

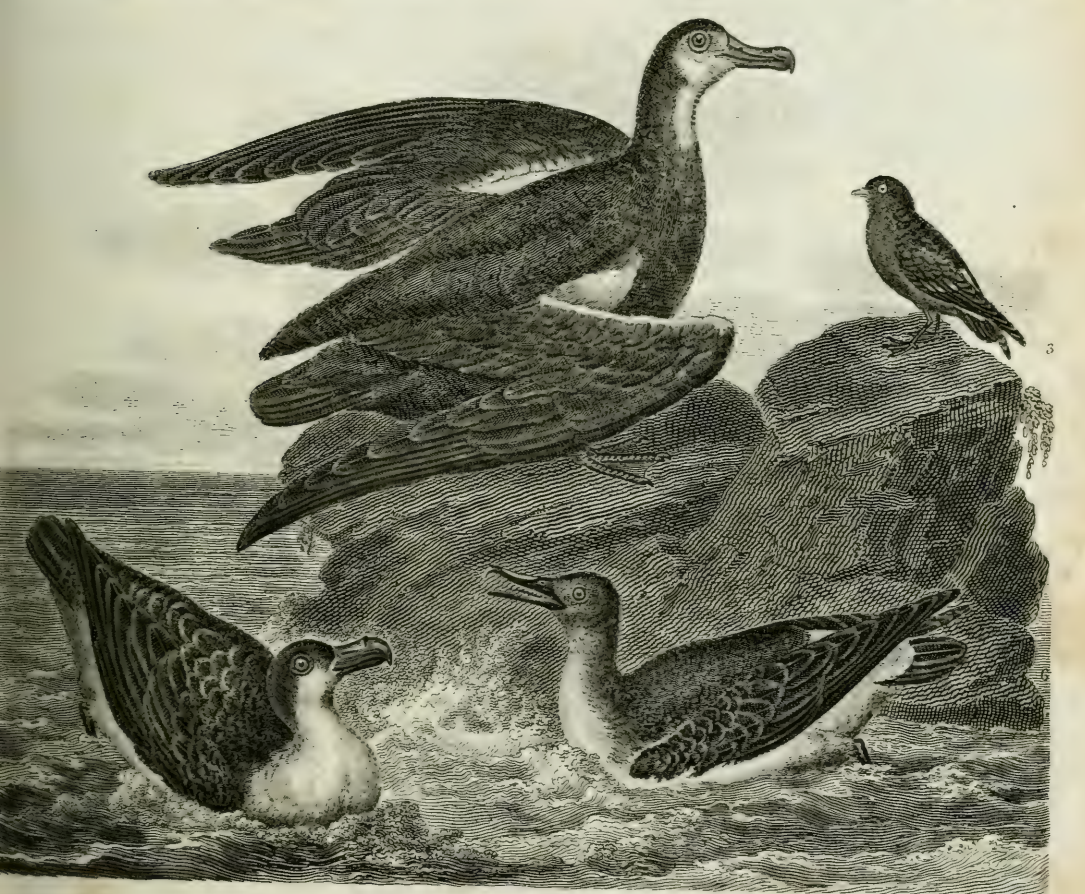
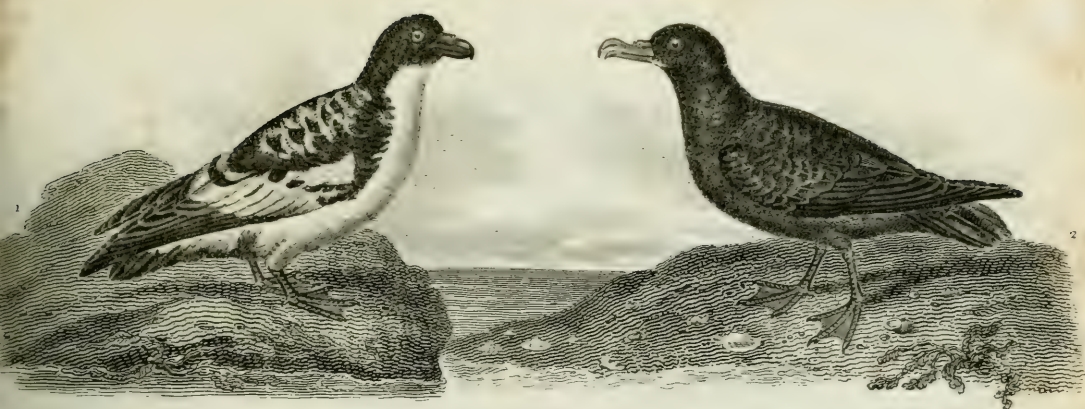
7. A. *Papua*

PAPUAN P.

8. A. *Microrhynchus*

LITTLE P.





GENUS PROCELLARIA G DIOMEDIA

Petrel Albatross

- 1. P. Capensis
- 2. P. Fuliginosa
- 3. P. Pelagica
- 4. P. Gigantea
- 5. D. Spadicea
- 6. D. Chlororhynchos

PENTADOP. SOOTY P. STORMY P. GLISTY CHOCOLATEL. YELLOW NASED.

Published as the Act directed Feb 11 1816 by Longman Hurst Rees Ormsby Bohn Printers in London





G PELECANUS
Pelican

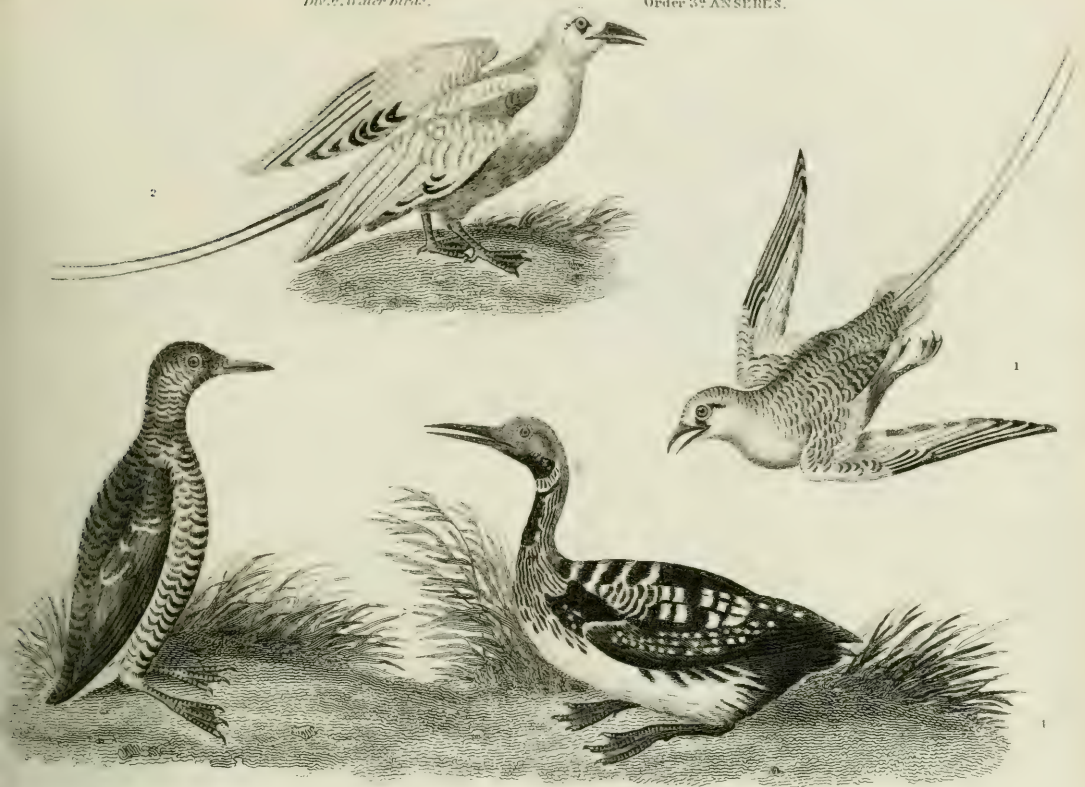
GENUS PLOTUS
Diver

1 P. *erythrorhynchos* 2 P. *erythrorhynchos* 3 P. *erythrorhynchos*
 BROWN-BILLED P. BROWN P. PINK-BILLED P. SCOTLAND P. BLACK-BELLIED D.



Dive, Water Birds.

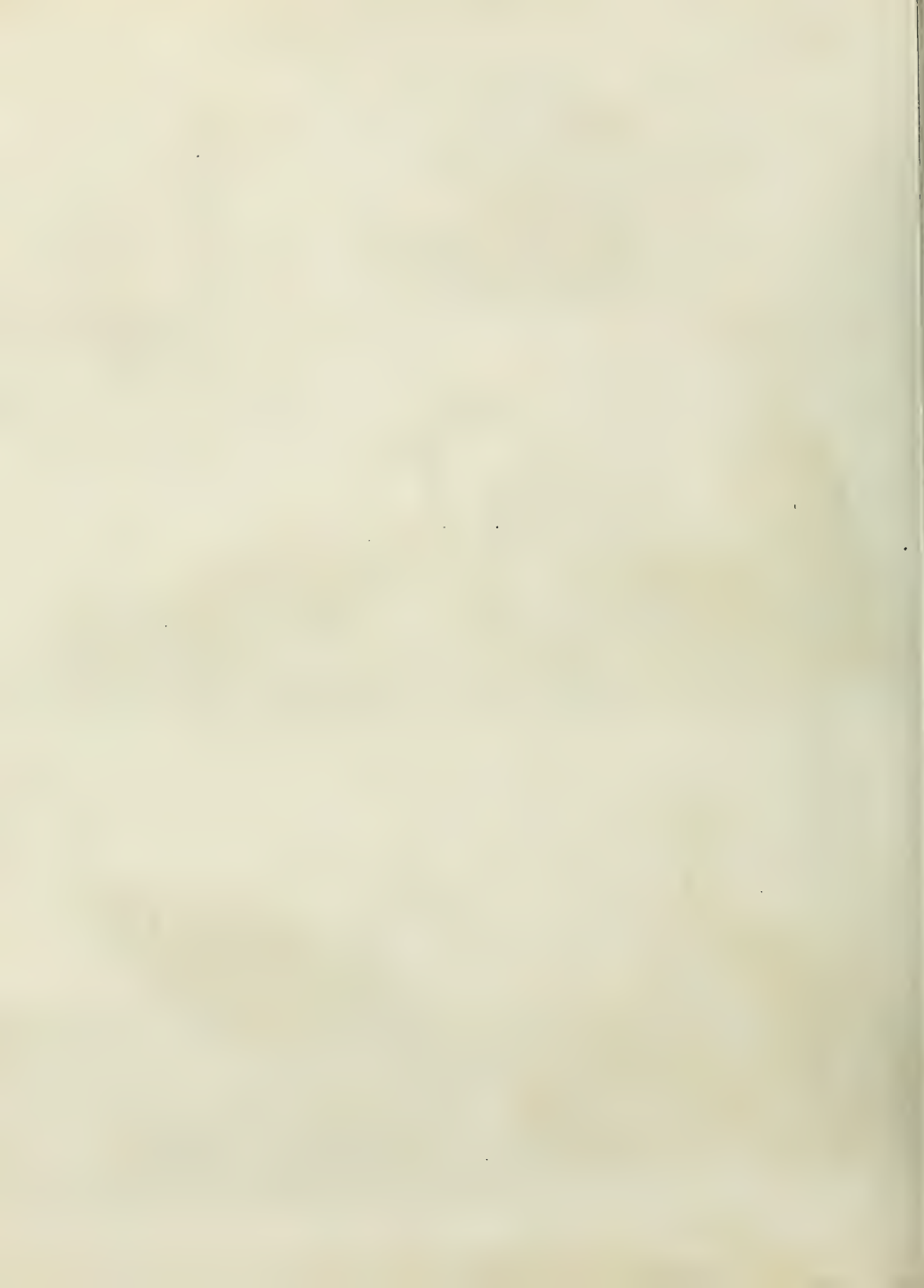
Order 3^d ANSERES.

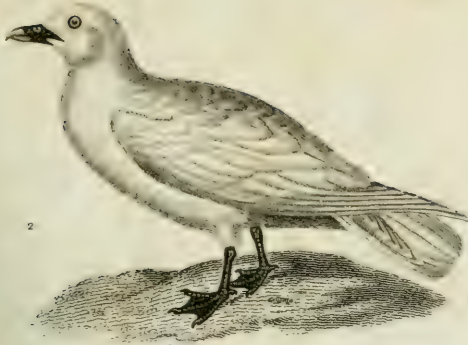


G. PILLAYON
Engraver

GENUS COLYMBUS
Gullinot, Divers, Grebe.

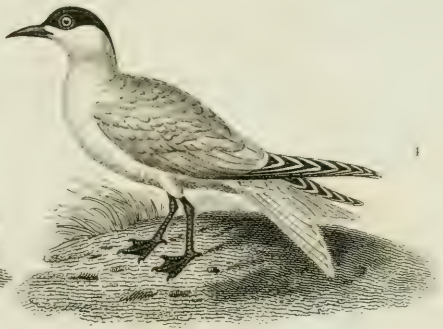
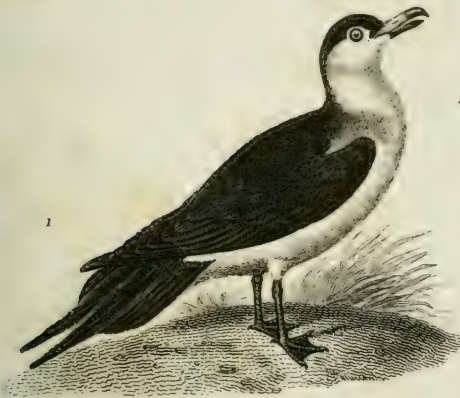
- | | | | | | |
|-------------------|---------------------|----------------------|--------------------|--------------------|--------------------|
| 1. <i>Ethiops</i> | 2. <i>Phasianus</i> | 3. <i>Manneratus</i> | 4. <i>Aethiops</i> | 5. <i>Sinensis</i> | 6. <i>Cornutus</i> |
| COMMON T. | RED TAILED T. | MARbled G. | BLACK THROATED D. | CHINESE D. | HORSED G. |





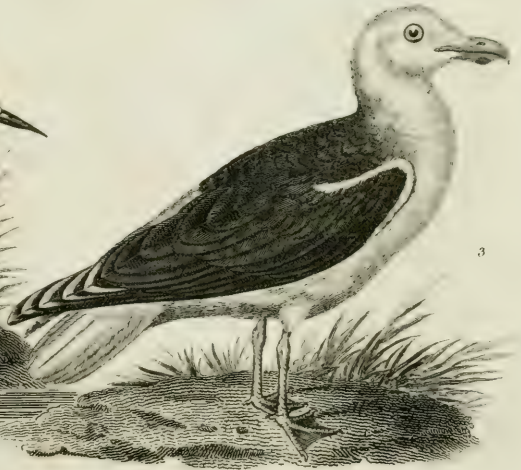
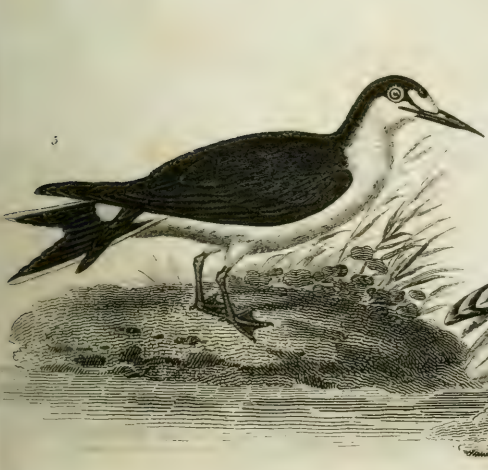
2

6



1

1



3

3

GENUS LARUS

(Gull)

1. *L. Parasiticus*
ARCTIC G

2. *L. Eburneus*
IVORY G.

3. *L. Marinus*
BLACK BACKED G

G. STERNA

(Tern)

4. *S. Caspia*
CASPIAN T.

5. *S. stolidus*
NODDY S.

G. RYNCHOPS

(Skimmer)

6. *R. Nigra*
BLACK S

5. *L. Eburneus* det.





GENUS PHENICOPTERUS.
 1. *Fraser*
 RED FLAMINGO.

G. PLATALEA.
 2. *Japan*
 ROSEATE SPOON-BILL.

G. PILAMEDEA.
 3. *Cornuta*
 HORNED SCREAMER.

G. MYCTERLI.
 4. *Novæ Hollandiæ*
 NEW HOLLAND JABIRU



Order GRALLÆ.

GENUS *CANCROMA* — *G. SCOPUS* *G. ARDEA*
(Boat-bill) (Umber) Crane



1. *C. Cochlearia* 2. *S. Umbra* 3. *A. Bavonia* 4. *A. Indigone*
CRESTED B TUFTED G. CROWNED G. INDIAN C.

Published as the Act directs April 1. 1822. by Longman, Hurst, Rees, Orme & Brown, Stationers-Row.



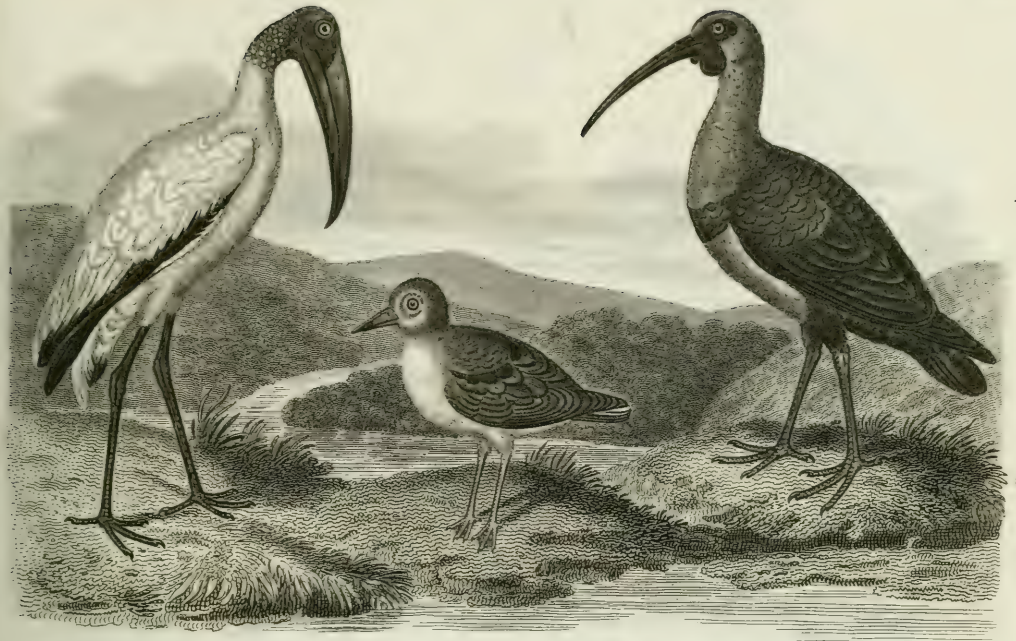


GENUS ARDEA
Craue.

- | | | | |
|-------------------|-----------------------|----------------------|----------------------|
| 1. <i>A. Alba</i> | 2. <i>A. Herodias</i> | 3. <i>A. Egretta</i> | 4. <i>A. Tigrina</i> |
| WHITE STORK | GIGANTIC HERON | GREY EGRET | TIGER HERON |

Published at the Art Store, No. 15, by Lea, Bland & Co., New York.





GENUS TANTALUS

- 1. T. Localator WOOD I
- 2. T. Melanops BLACK FACED I.
- 3. T. Calvus BILD I.

G. CORRIRA

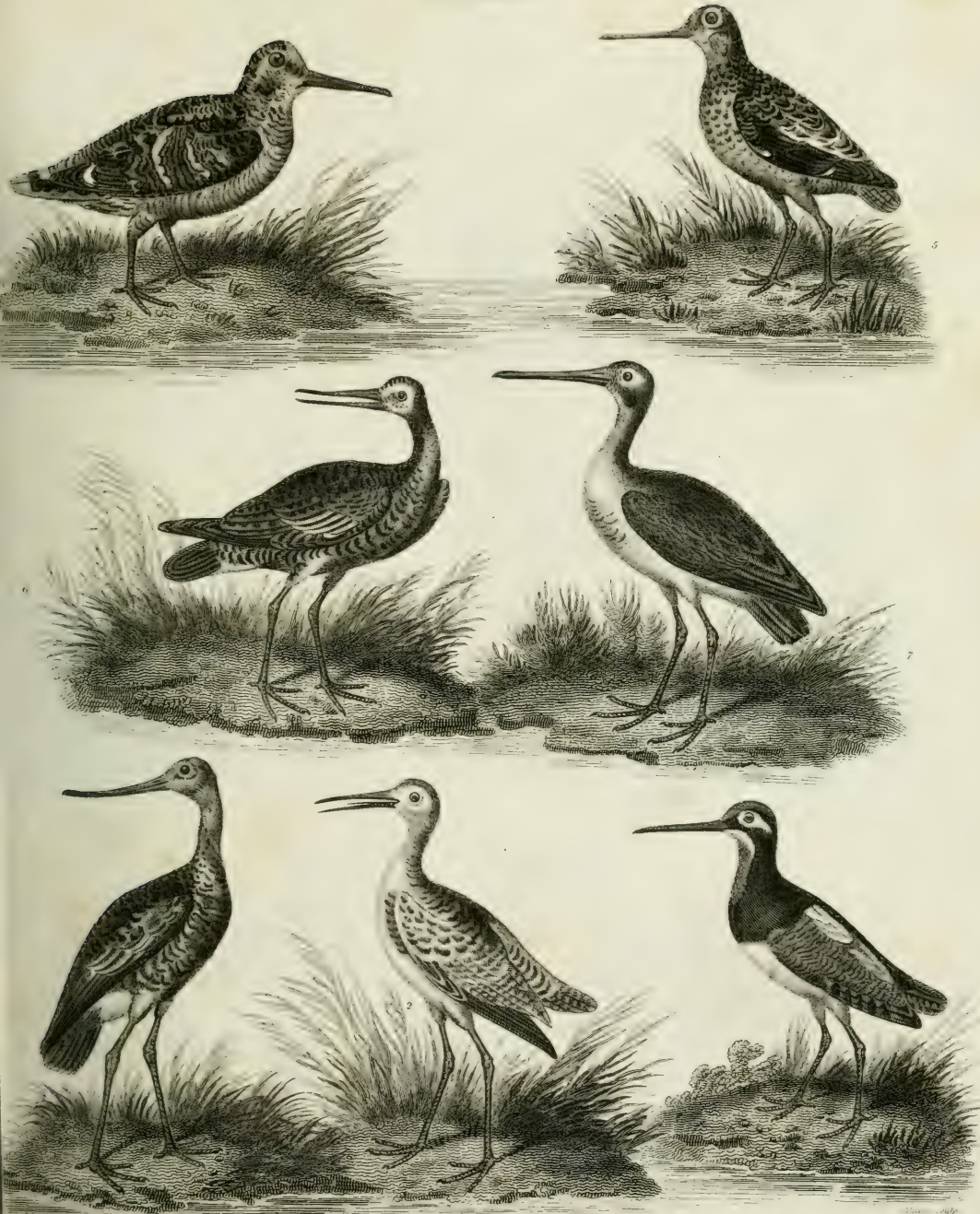
- (Courier)
- 4. C. Italica ITALIAN C.

G. SCOLOPAX

- (Whimbrel)
- 5. S. Lenccephala WHITE HEADED CURLEW
- 6. S. Phaeopus WHIMBREL



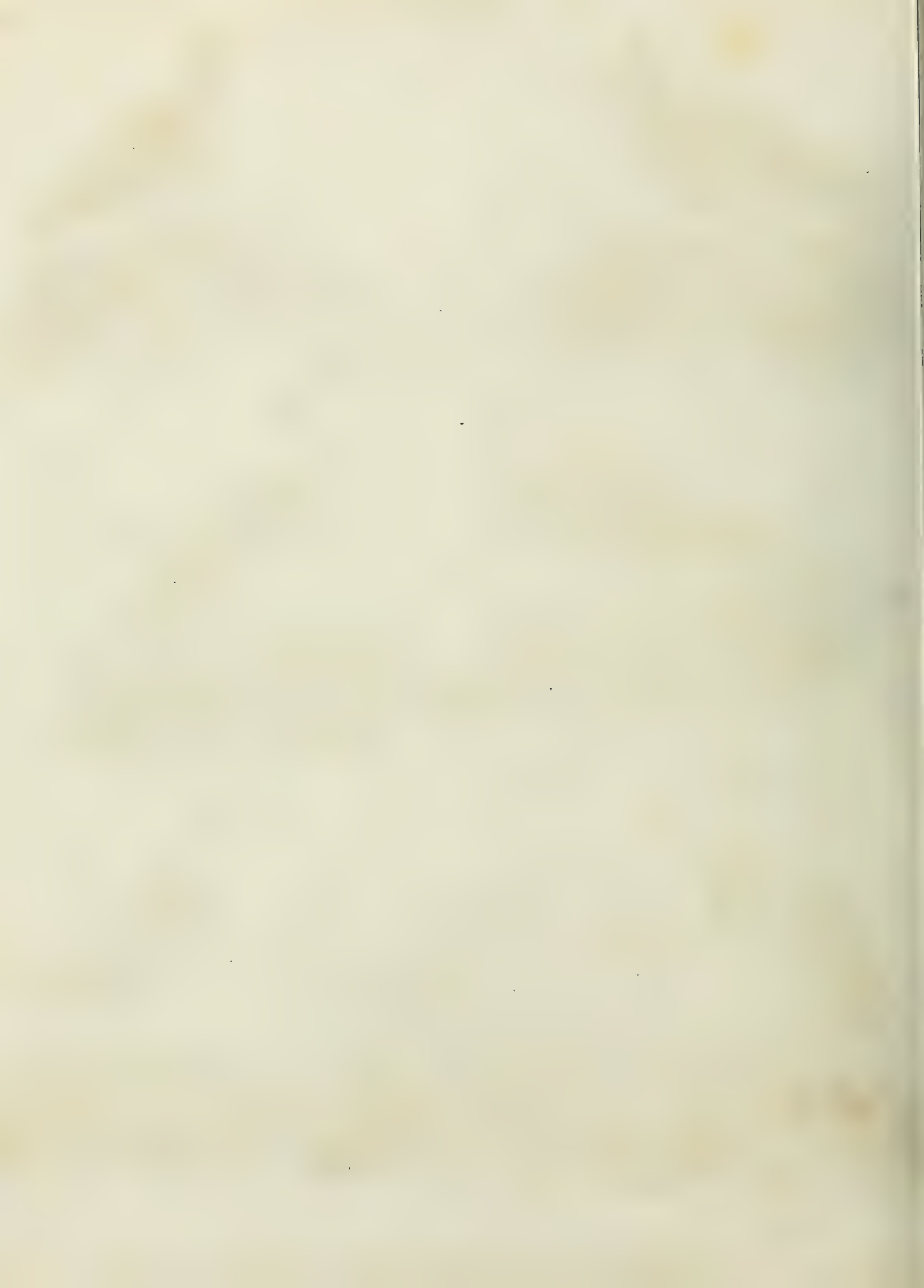
Order GRALLÆ.



GENUS SCOLOPAX

- | | | | | | | |
|-----------------|-----------------|----------------|-----------------|-------------|-----------------|--------------|
| 1. S. Lapponica | 2. S. Candida | 3. S. Capensis | 4. S. Rusticola | 5. S. Major | 6. S. Fœdea | 7. S. Limosa |
| RED GODWIT | WHITE RED SHANK | CAPE SNIFE | WOOD COCK | GREAT SNIFE | AMERICAN GODWIT | LESSER G! |

Published as the Act directe, Dec 27 1821, by Longman, Hurst, Ross, Orme & Brown, Paternoster Row





GENUS TRINGA

Sandpiper

1 *T. macularia*
WHITE WINGED SP. LEITZ & ARBEVE

4 *T. lobata*
GREY PULCRORH

5 *C. apricarius*
LEWISGRIN P.

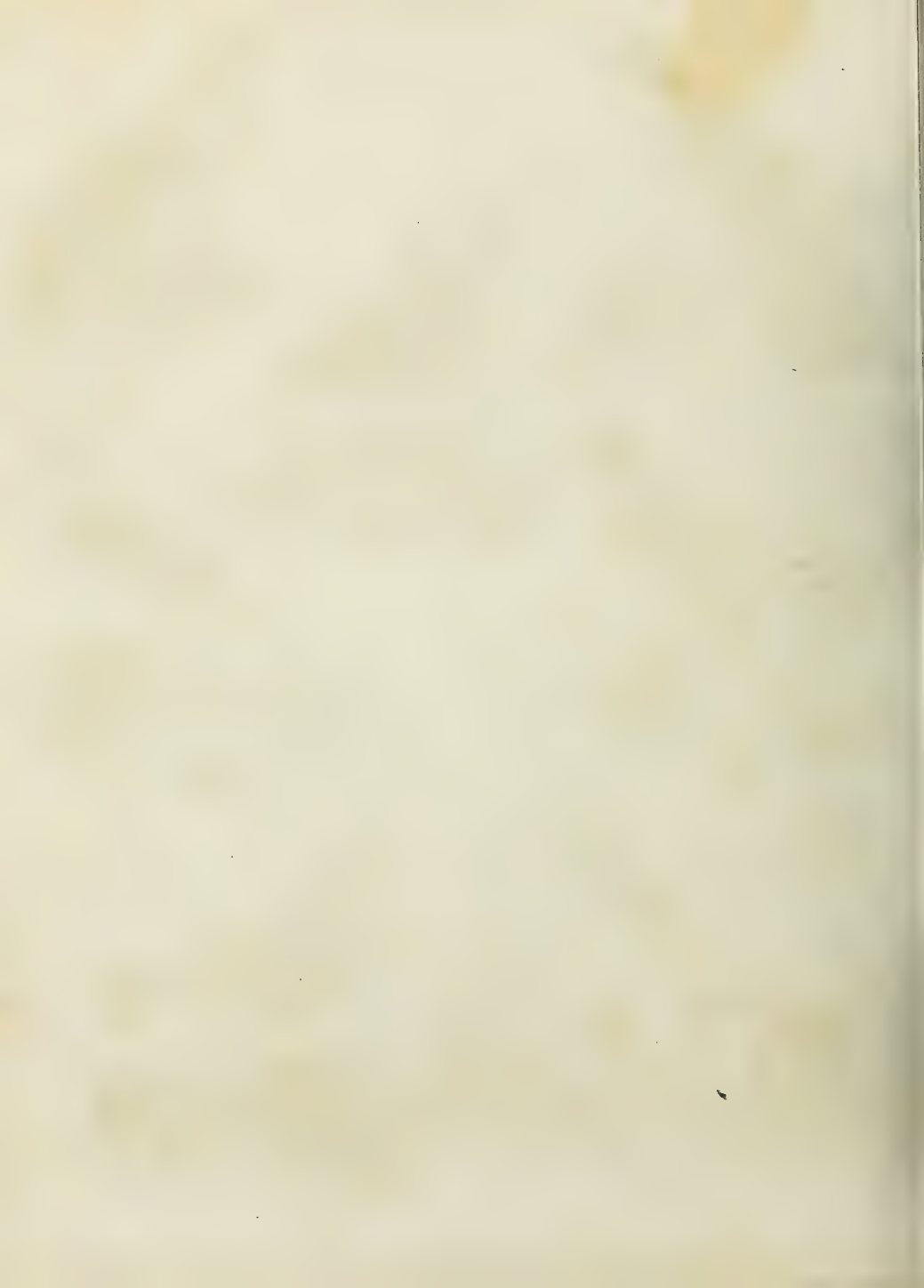
G. CILICADRIUS

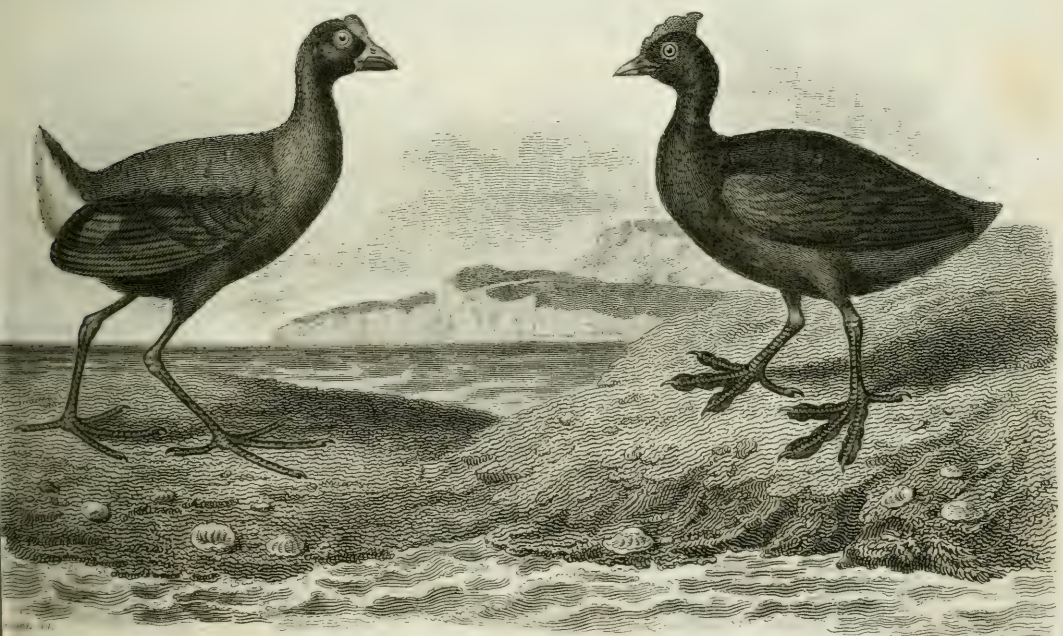
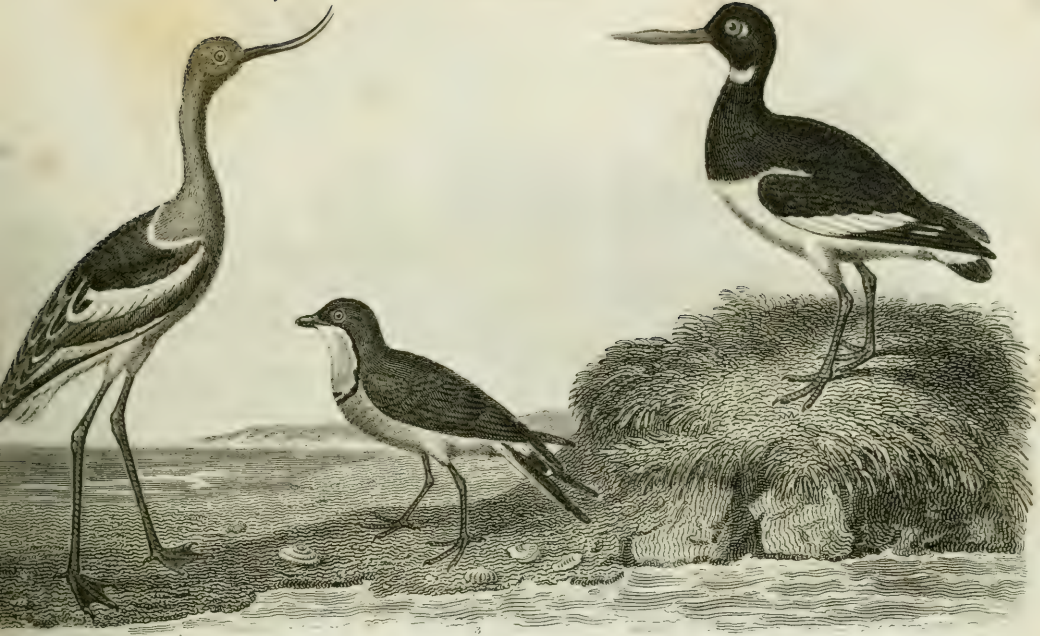
Plover

6 *C. Minantopus*
LONG LEGGED P.

7 *C. spinosus*
SPUR WINGED P.

Engraved as the Act. Illust., Sep. 1st 1811, by Levaillant, del. & G. Brown, Delineator P.





G. RECURVIROSTRI
(Avocet)
1. R. Americana
AMERICAN A.

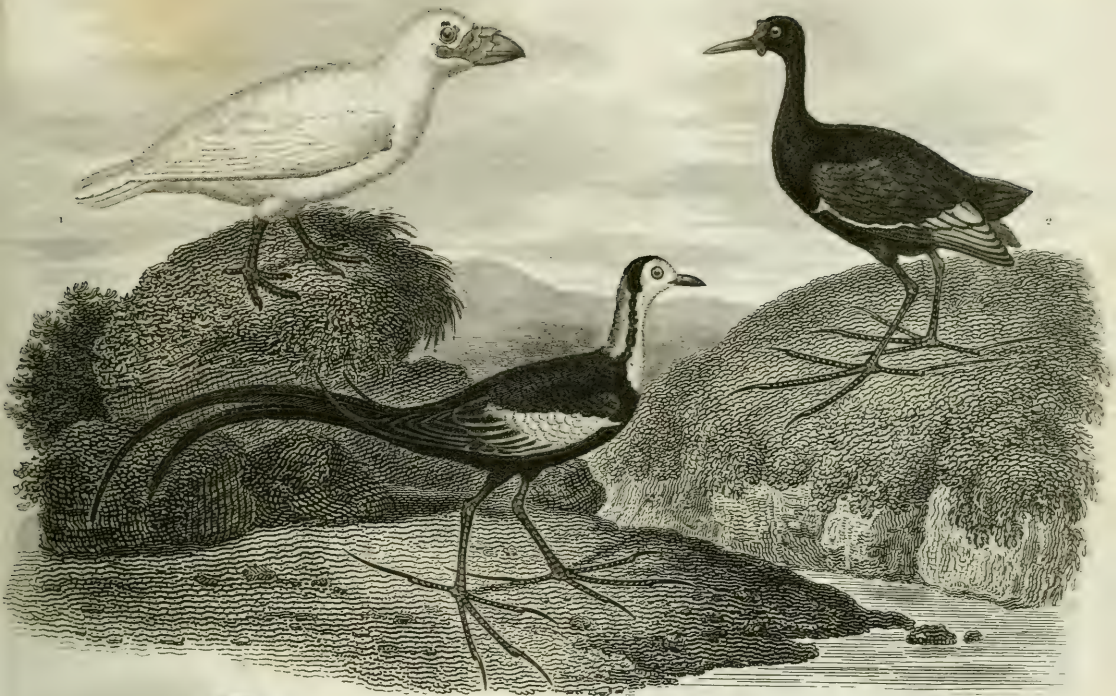
G. LEMITOPUS
(Oyster-catcher)
2. H. Australis
OYSTER C.

G. GLAREOLA
(Tringa)
3. G. Austriaca
AUSTRAL T.

GENUS FULICA
(Gallinule & Coot)
4. F. Dorsalis
PURPLE G.
5. F. Cristata
'CRESTED C.'

Published at the Act Directa, by Leypman, Hurd, Row, Orms, & Brown, Paternoster Row.





G. VAGINALIS

1. N. alba

WHITE SHEATH BILL

GENUS PARIA

2. P. Jacana

CHESTNUT JACANA

3. P. Sinensis

CHINA J.

G. GALLUS

4. R. Crer

LAND BIRD VARIEGATED R.

5. B. variegatus

G. PSOPHIA

6. P. crepitans

GOLD BREASTED TRUMPETER





GENUS OTIS

(Bustard)

O. *Tarda*.

GREAT B. Male & Female.

3. S. *Reh.*

AMERICAN O.

GENUS STRUTHIO

(Ostrich)

4. S. *Casuarus*.

5. S. *Novae Hollandiae*.

CASOWRY. NEW HOLLAND CASOWRY.





GENUS DODO.
Dodo.

Didus Ineptus, HOODED D.

GENUS STRUTHIO
Ostrich.

2. *S. Capensis, OSTRICH* Male. 3. Young.



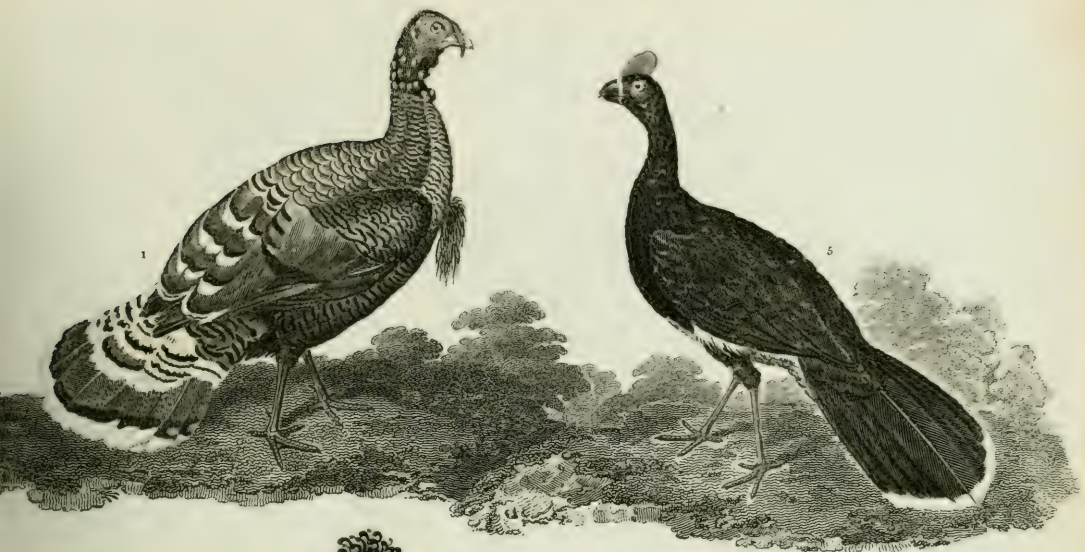


GENUS PAVO.
Peacock

- | | | | |
|--------------------------|------------------------------------|-------------------------------------|---------------------------|
| 1. <i>P. cristatus</i> . | 2. <i>P. cristatus v. varius</i> . | 3. <i>P. cristatus var. albus</i> . | 4. <i>P. bicalcaratus</i> |
| COMMON PEACOCK. | VARIEGATED or PIED PEACOCK. | WHITE PEACOCK. | IRIS PEACOCK. |

Published as the Act directs April 7th 1828 by Loamans Barrat Esq. & Orme Printers in London

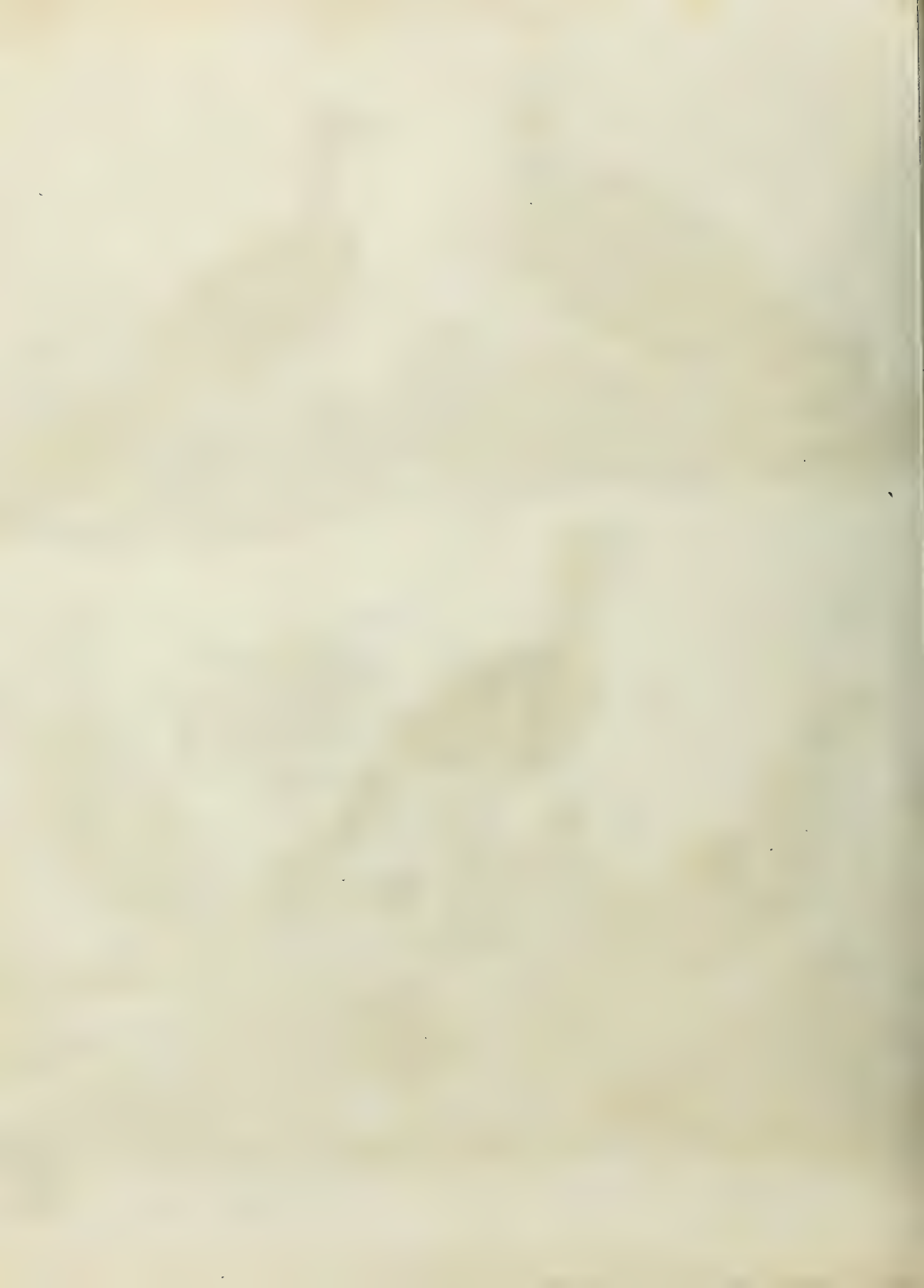




GENUS MELEAGRIS (Turkey)
 1. *M. Gallipavo*.
 AMERICAN WILD TURKEY.

G. PENELOPE (Guan)
 2. *P. Cristata*.
 GUAN.

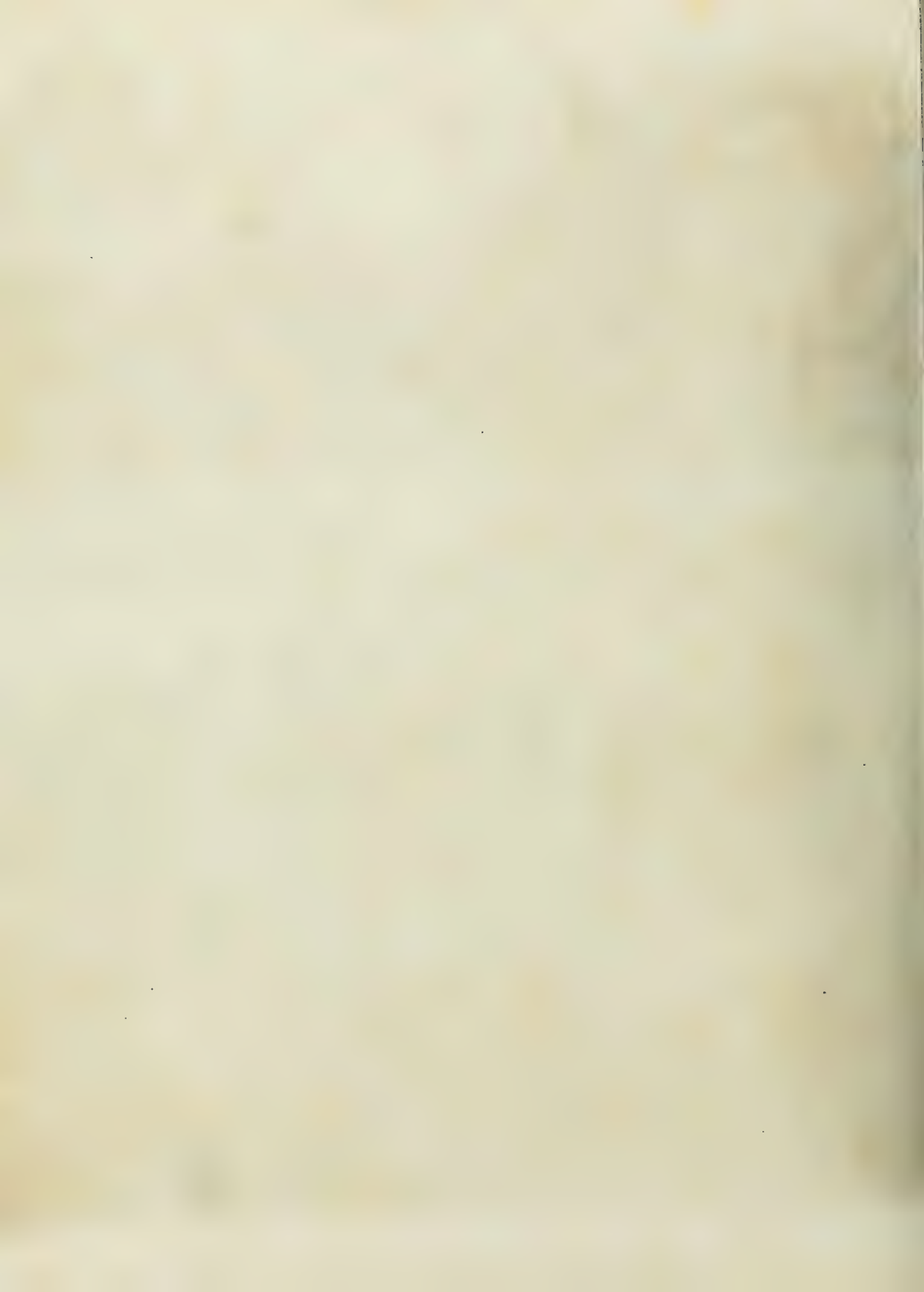
G. CATHARTES (Curassow)
 3. *C. Alutor*. 5. *C. Ruaxi*.
 CURASSOW. Male. 4. Female. CUSHEW.





1. Wild Cock. 2. Rumpless Cock. 3. Haulburgh Cock. 4. Game Cock. 5. Bantam Cock. 6. Hen. 7. Hen. 8. Hen. 9. Hen. 10. Hen. 11. Hen. 12. Hen.

Printed and Sold by J. G. Smeath, 11, St. Paul's Church-yard, London. 1807.





P. Gallus 11. Malay Cock. 13. Dorking Cock. 15. Frizzled Cock. } *Tinnuncus*
 12. Hen. 14. Hen. 16. Hen. }

Published at the Art directors' Manufactory by Longman Street No. 6 Ormeau Distillery Lane.



Dis. of Land Birds. Order GALLINÆ.



GENUS PHASIANUS Pheasant.

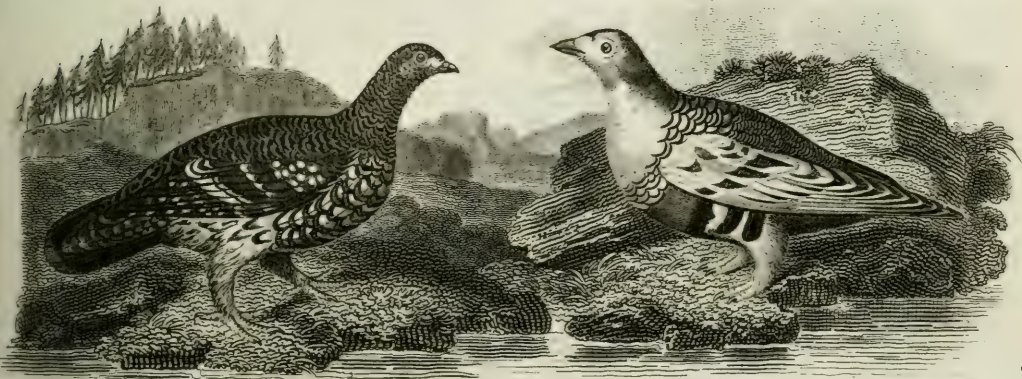
- 1. P. Goldicus.
- 2. P. Pictus.
- 3. P. Nymphomerus.
- 4. P. Argus.

COMMON P. GOLD P. SILVER P. ARGUS P.

Published as the Property of the British Museum, London.



Two of Land Birds ... Order GALLINA.



Syl. Edwards del.

GENUS NUMIDIA - G. TETRAO

(Paintado)

(Grouse)

1 N. Macgregri
6 CINEASHEX or PINTADO

2 N. cristata
CRESTED P.

3 T. umbellus
BUTTED or RUFF NECKED GROUSE. PIN-TAILED G.

4 T. alberta
CANADIAN SPOTTED G.

5 T. canadensis
CANADIAN SPOTTED G.

6 T. parvirostris
HETEROCLITOUS





J. Edwards del.

GENUS TETRIX

(Genus)

1. T. Pectoris
CON' BARTIDGE

2. T. Ferruginous
HICKLED P.

3. T. Gibularius
CIBELTIS 3 TOED OVAL

4. T. Marylandus
MARYLAND O.

5. T. Viridis
GREEN O. Male

6. T. Major
GREAT TINAMOU

7. T. Variegatus
VARIEGATED ?





1. *C. Chalcopetra*. BRONZE WINGED P. 2. *C. Crythroptera*. GARNET WINGED P. 3. *C. Macroura*. GREAT TAILED P. 4. *C. Nicobarica*. NICOBAR P. 5. *C. Curvirostra*. HOOK BILLED P. 6. *C. Capensis*. CAPE TURTLE. 7. *C. Coronata*. GREAT CROWNED P.

Published as the Act directs, June 1. 1828, by Longman, Hurst, Blee & Orme, Paternoster Row.



Order PASSERES



GENUS JLAUDA

Lark

1. *A. Capensis*

2. *A. L.*

G. STREPTIS

Starling

3. *S. Militaris*

4. *S. Capensis*

5. *S. Wattlebird*

G. CAPRIMULGUS

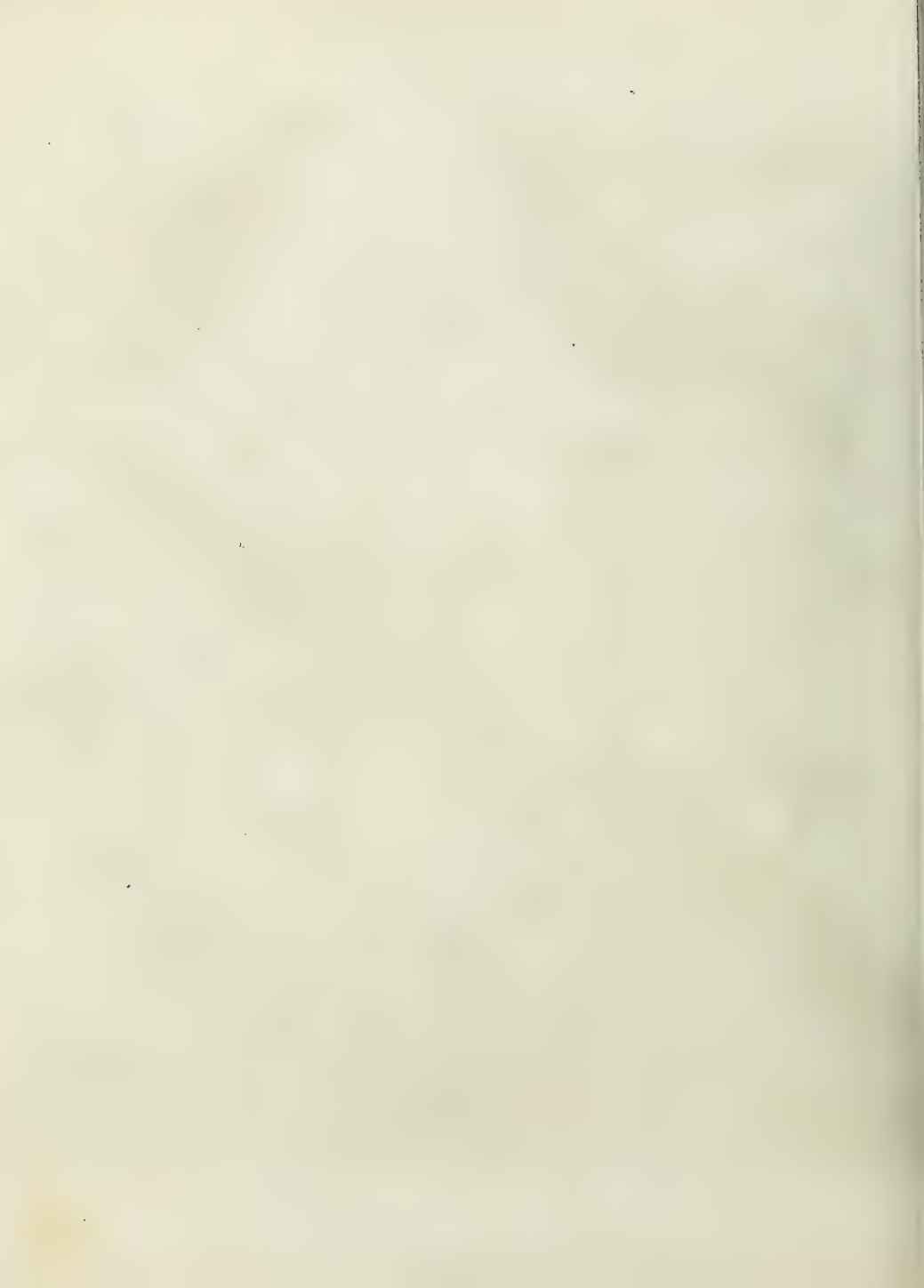
Gouteneker

6. *C. Girardii*

7. *C. Longipennis*

8. *C. G.*

9. *C. L.*



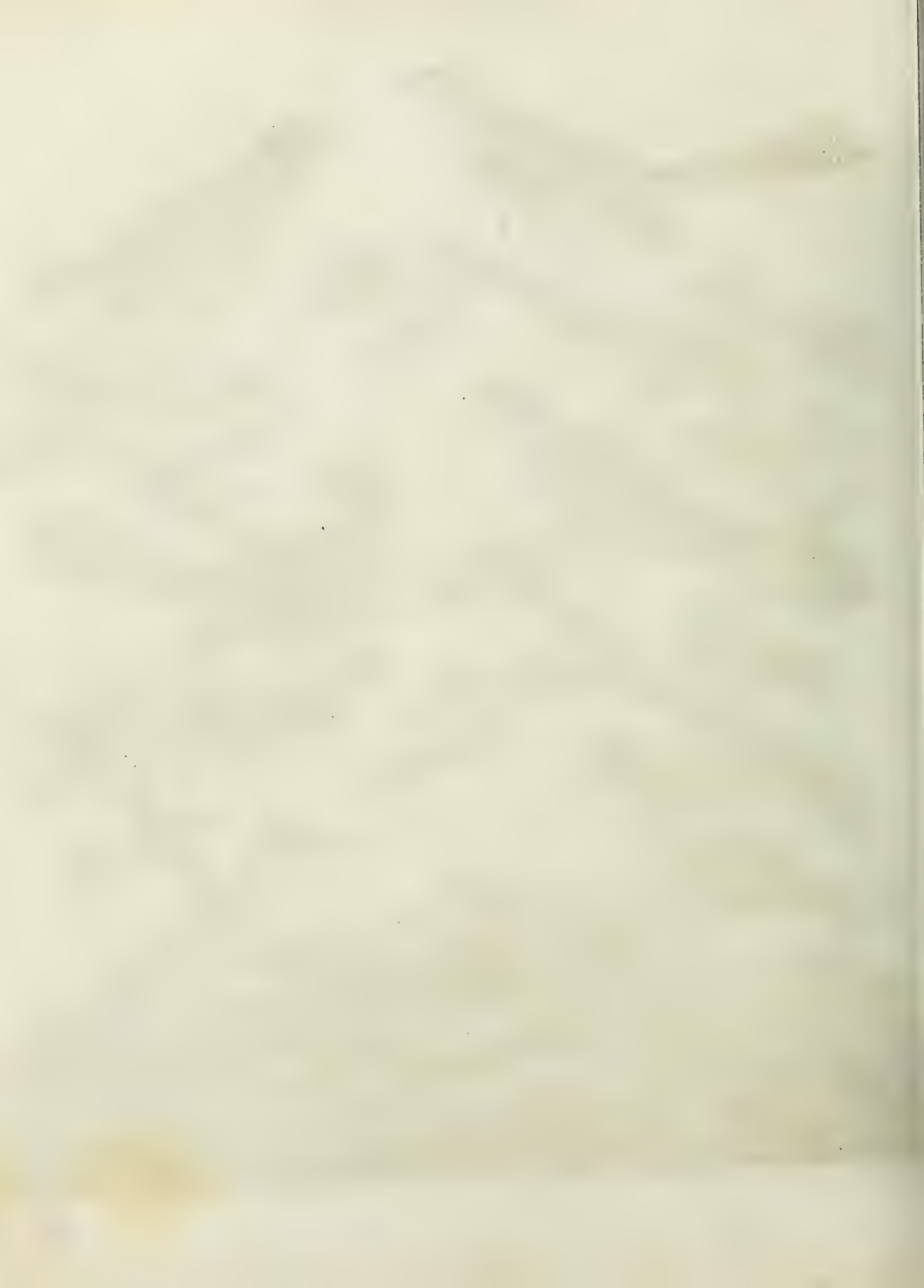


GENUS *TERDUS*
Thrush

- | | | | | | |
|-------------------|---------------|-------------------------|--------------------------|----------------------|------------------------|
| <i>T. Ophonus</i> | <i>T. Rex</i> | <i>T. porphyrolatus</i> | <i>T. sordidirostris</i> | <i>T. sylvaticus</i> | <i>T. longirostris</i> |
| WOODPECKER. | KINGLET. | SORRELLETT. | THICK BILLED. | BLEU T. BILLED. | LONG BILLED. |

Lehmann del.

Johns sculp.





GENUS AMPELIS

Chatterer.

1. *A. Garnesolata*
 CAROLINA CHATTERER C.

2. *A. Gittingi*
 PURPLE BREASTED C.

3. *A. Pompadour*
 POMPADOUR C.

4. *A. Garnierii*
 RED C.

5. *C. Capensis*
 CAP. C.

G. COLIUS
 (Coly)

6. *C. F. leucophaea*
 WHITE-BACKED C.

Illustrated by J. G. Audubon, engraved by J. G. Audubon, colored by J. G. Audubon.



ORNITHOLOGY.

Divⁿ 1. Land Birds. Order PASSERES.

PLATE I.



GENUS LOXIA
(Grosbeak)

- | | | | | | | |
|-------------------|------------------------|-------------------------|---------------------------------|----------------------|----------------------|---------------------------|
| 1. <i>Lincoln</i> | 2. <i>L. cucullata</i> | 3. <i>L. Philippina</i> | 4. Nest of <i>Philippine G.</i> | 5. <i>Cardinalis</i> | 6. <i>L. atrilla</i> | 7. <i>L. flabellifera</i> |
| LINEATED G. | CRESTED DOMINICAN G. | PHILIPPINE G. | | CARDINAL G. | WARREN BILLED G. | FAN TAILED G. |

Published as the 1st No. of the 1st Series, by Longman, Hurst, Ross & Co. Strand, London.



Div. 1. Land Birds. Order 6 PASSERES.



GENUS EMBERIZI

Bunting

- | | | | | | |
|------------------------|--------------------|--------------------|---------------------------|------------------------|------------------------|
| 1. E. <i>Paradisæa</i> | 2. E. <i>Ciris</i> | 3. E. <i>Regia</i> | 4. E. <i>provincialis</i> | 5. E. <i>Americana</i> | 6. E. <i>Hortulana</i> |
| WHITISH B. | PAINTED B. | SHARP-TAILED B. | MUSTACHOE B. | BLACK THROATED B. | ORTOLAN B. |

Published at the Art direct Jan. 1. 1841 by Longman Hurst Ross Orme & Brown Paternoster Row.

J. Sawant del.

Wilson sculp.



ORNITHOLOGY.

Divided into Land Birds. Order 3^d PASSERES.

PLATE X.

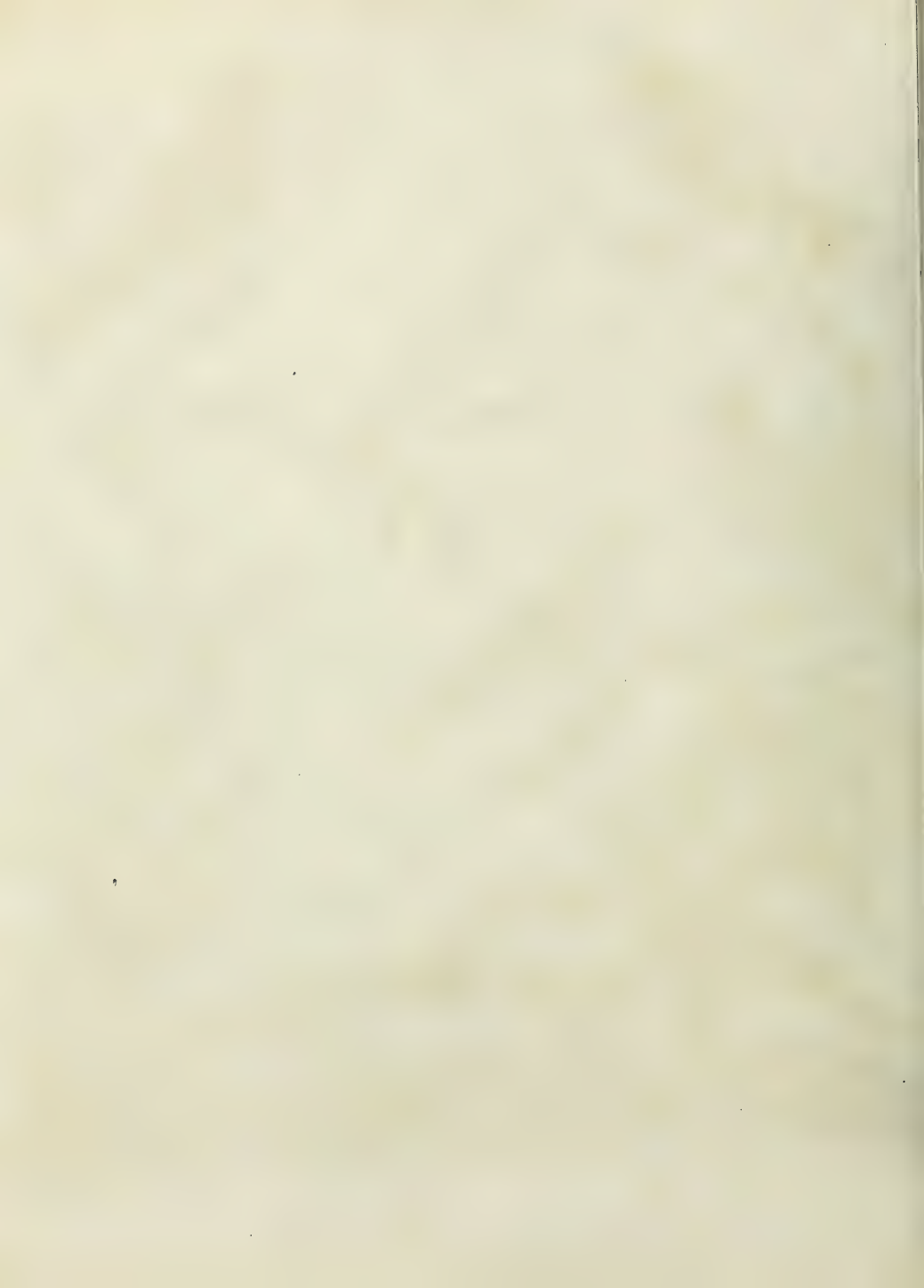


C. TANAGRA.
(Tanager)

GENUS FRINGILLA.
(Finch)

G. PHYTOTOMI

- | | | | | | | | |
|--------------|------------------|---------------|--------------|--------------------|-----------------|------------------|-----------------|
| 1. T. Talao. | 2. T. Capitalis. | 3. T. Jacapa. | 4. V. Jonia. | 5. T. Flammca. | 6. E. Bengalus. | 7. T. Pittocosi. | 8. P. Rara. |
| PARADISE T. | CAPITAL T. | RED-BREASTED | FIRE-FINCH. | CRIMSON CROWNED F. | BLUE-BELLIED F. | PARROT F. | CHILI PHYTOTOMI |



Order PASSERES.



GENUS MUSCICAP

(Fly Catcher)

GENUS MOTACILLA

(Warbler)

- | | | | | | | |
|----------------------|----------------------|-----------------------|-----------------------|---------------------------|-----------------------|-----------------------------|
| 1. <i>M. bicolor</i> | 2. <i>M. barbata</i> | 3. <i>M. tyrannus</i> | 4. <i>M. malayana</i> | 5. <i>M. flabellifera</i> | 6. <i>Mot. cyanea</i> | 7. <i>M. madraspatensis</i> |
| BLACK & WHITE F.C. | WHISKERED F.C. | FORKED-TAILED F.C. | SOFT-TAILED F.C. | FAN-TAILED F.C. | SUPERB WHEAT EAR | FIELD WAG-TAIL |

Published as the Act directs Dec. 1. 1841. by Longman, Hunt, Rees, Orme & Brown Paternoster Row.





G. MOTACILLA

Warbler

1. *M. pilosa*
BLACK-HEADED W.

2. *M. spinuscula*
THORN-TALLED W.

3. *M. fusca*
BLUETHROATED W.

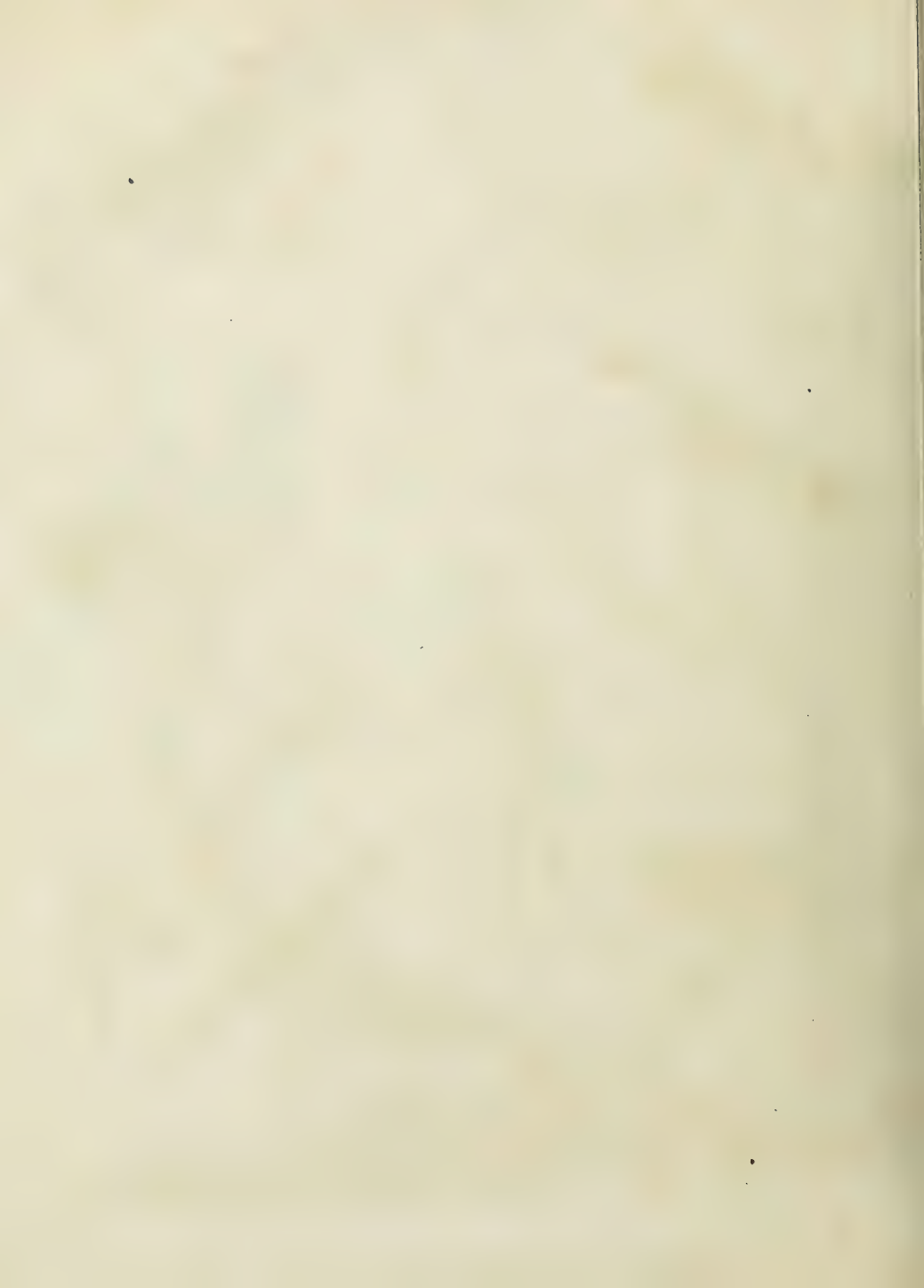
4. *P. rupicola*
ROCK M.

GENUS PIPRA - Manakin

5. *P. striata*
STRIPED-HEADED M.

6. *G. leuccephala*
WHITE-CAPPED M.

7. *P. punctata*
SPYGLASS M.





GENUS PARS

Thynorise

1. P. Macrocephalus
G. HEADED T.

2. P. cristatus
CRESTED T.

3. H. Indica
R. HEADED S.

GENUS HIRUNDO

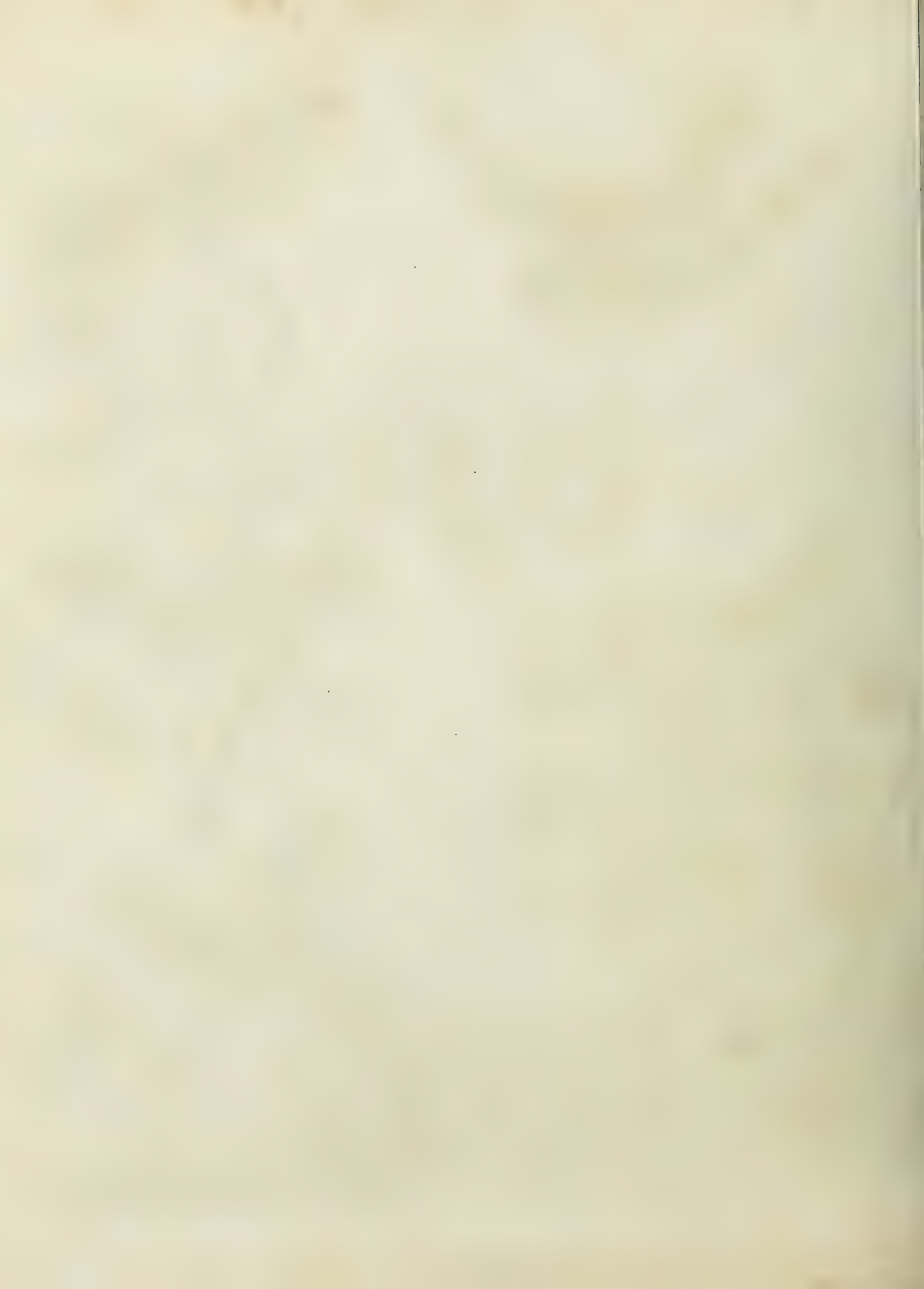
Swallow

4. H. occidentalis
E. SWALLOW

5. NEST

6. H. Tahitiensis
O. SWALLOW

7. H. P. accipitrina
ACCIPITRIN SWALLOW



Strix flammar



Strix passerina



Strix stridula



Strix brachyotos



Tetrao lagopus

Tetras urogallus



Falco Chrysaetos



Motacilla regulus



Ardea minuta

Tetrao tetrix



Alauda obscura



Glaucola austriaca



Ardea cinerea



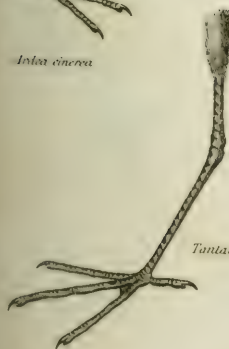
Charadrius limantopus



Platalea ajaja

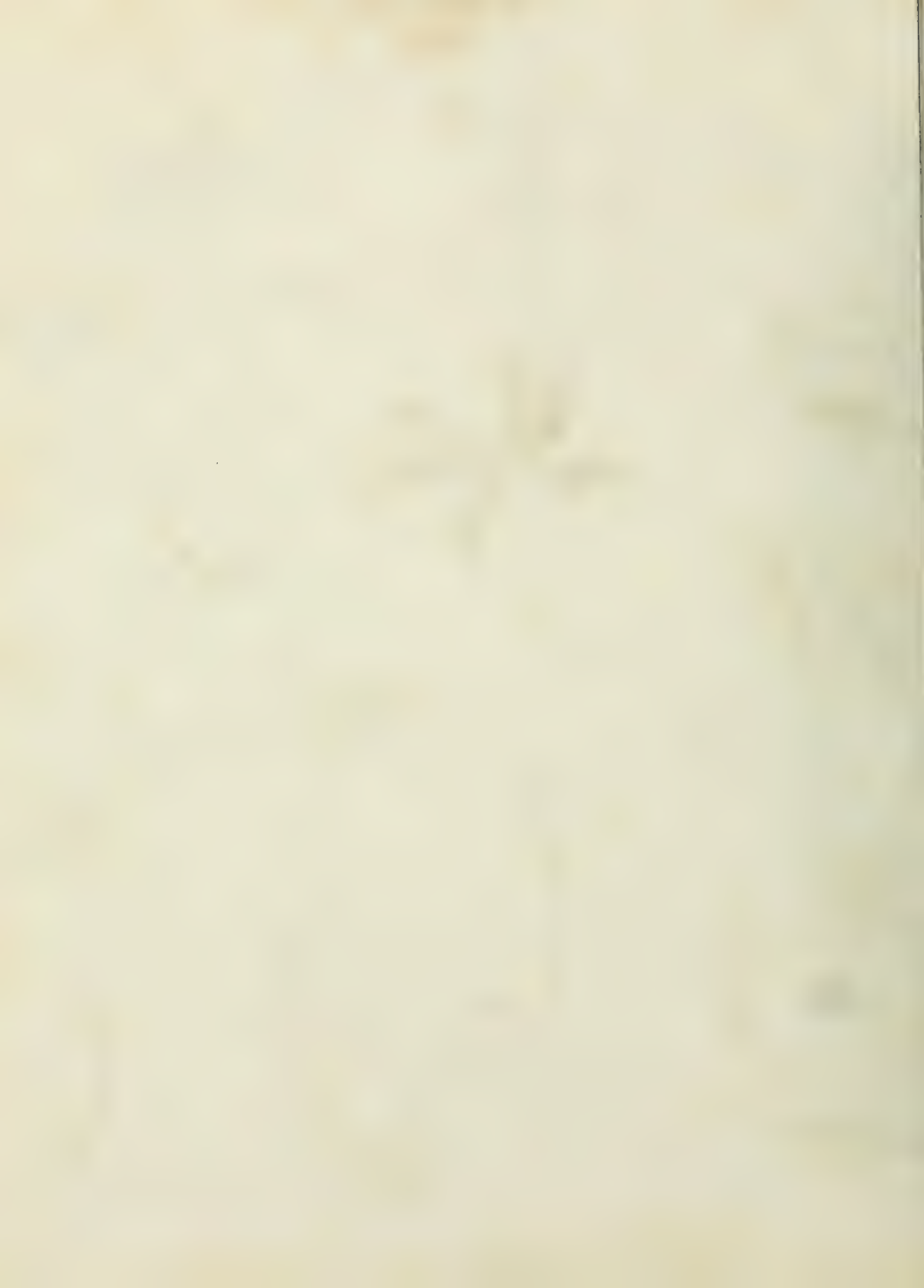


Tantalus igneus



Hamatopus ostralegus







Parus



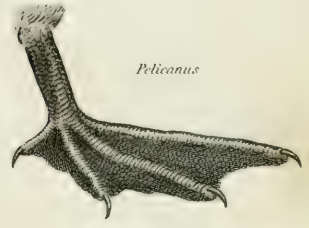
Phasianus



Pavo



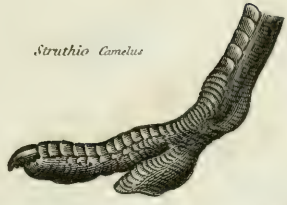
Corvus



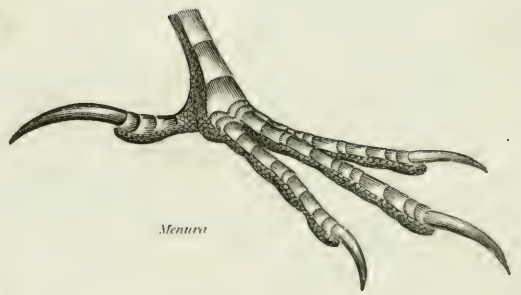
Pelicanus



Struthio casuarus



Struthio Camelus



Menurus



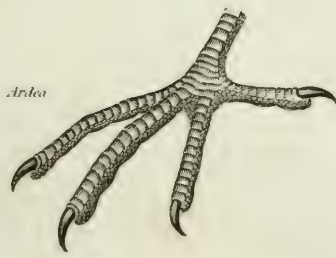
Otis



Cereopsis

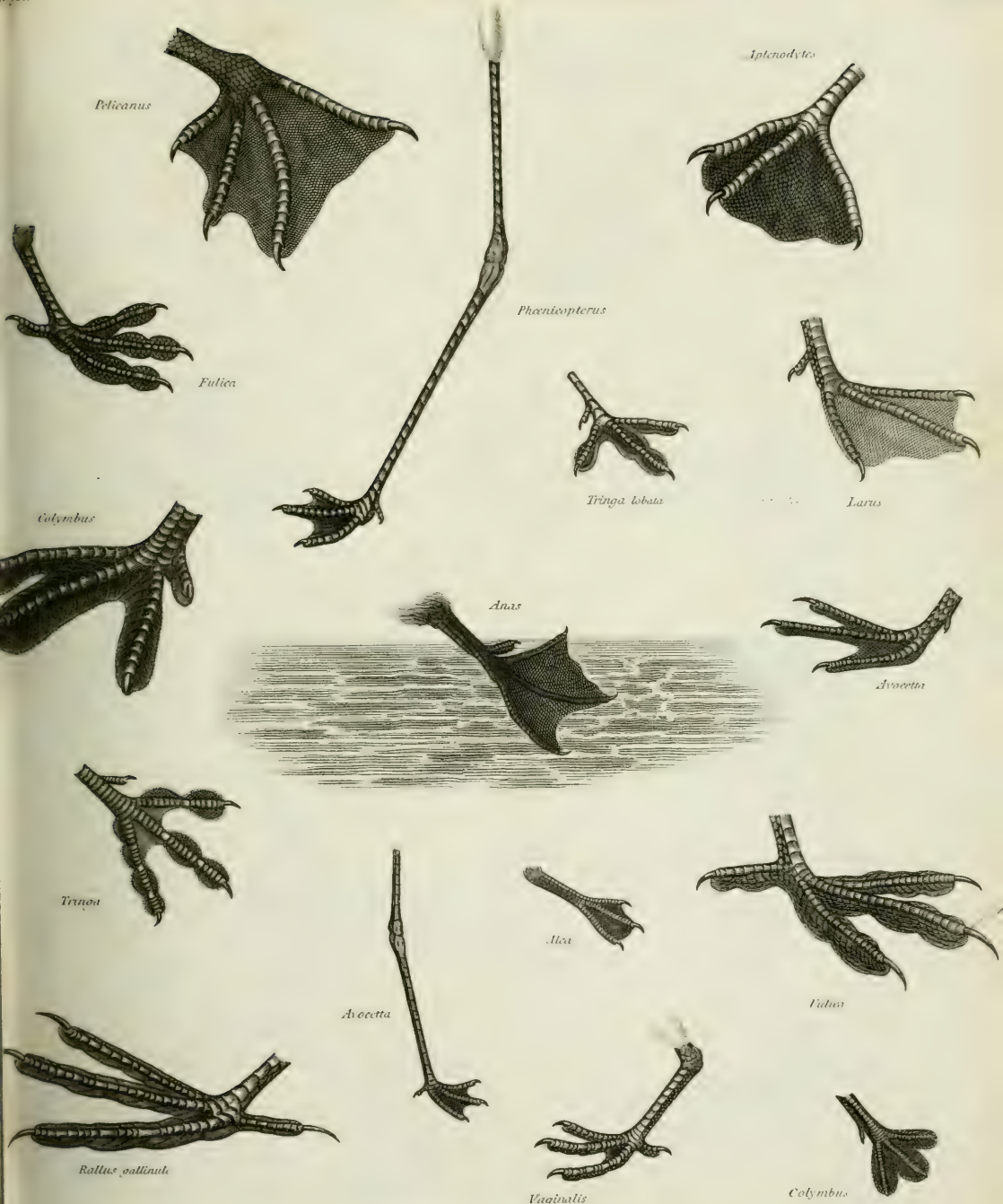


Paradisea



Ardea







Elementary.



Muscoplagus



Picus



Picus marinus



Alauda



Alauda obscura



Colinus



Alcedo



Edeo



Curra



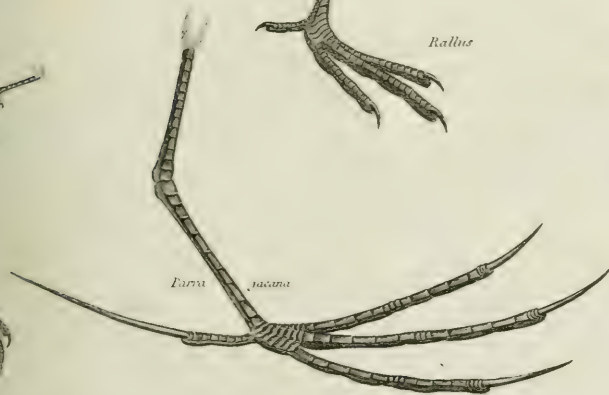
Sterna



Rallus



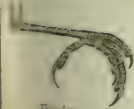
Colymbus polylops



Curra jaccana



Sitta



Turdus



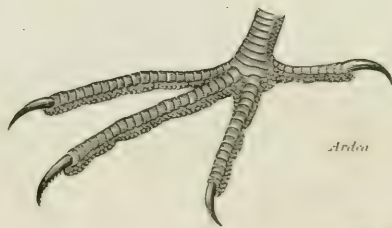
Motacilla



Glaucula



Pipra



Ardea

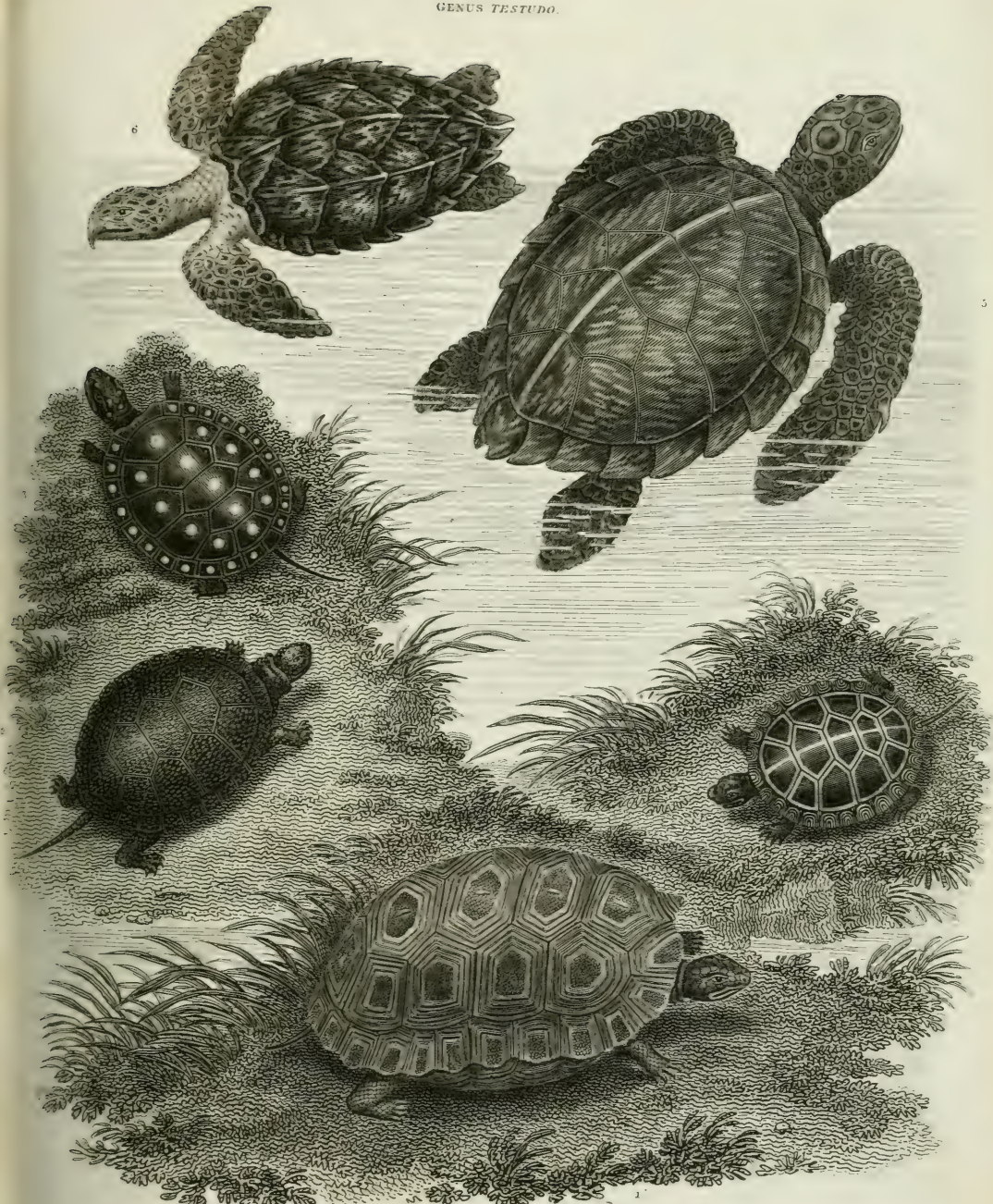


AMPHIBIA.

GENUS TESTUDO.

6

5



1 *T. denticulata*

2 *T. Europaea*

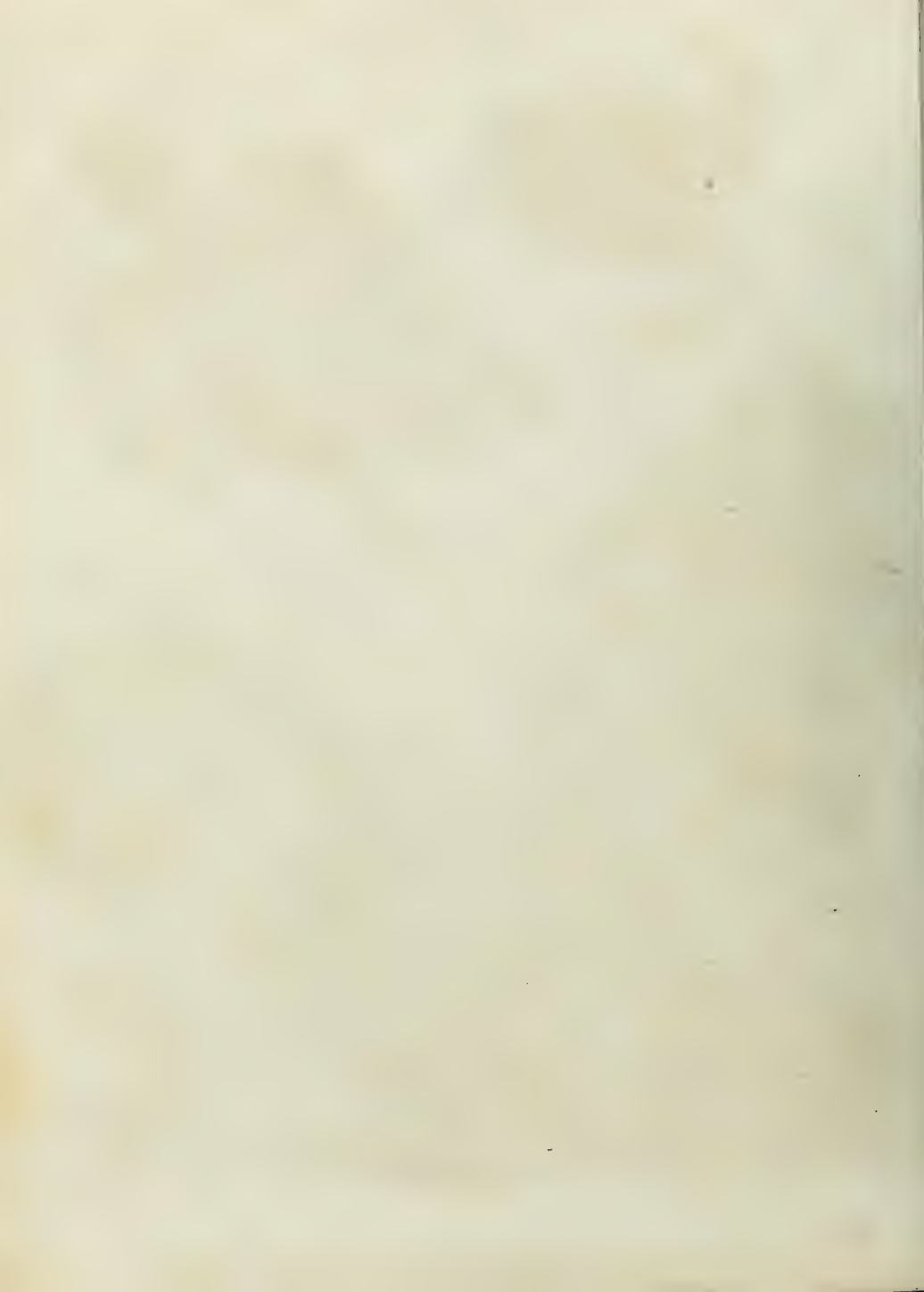
3 *T. guttata*

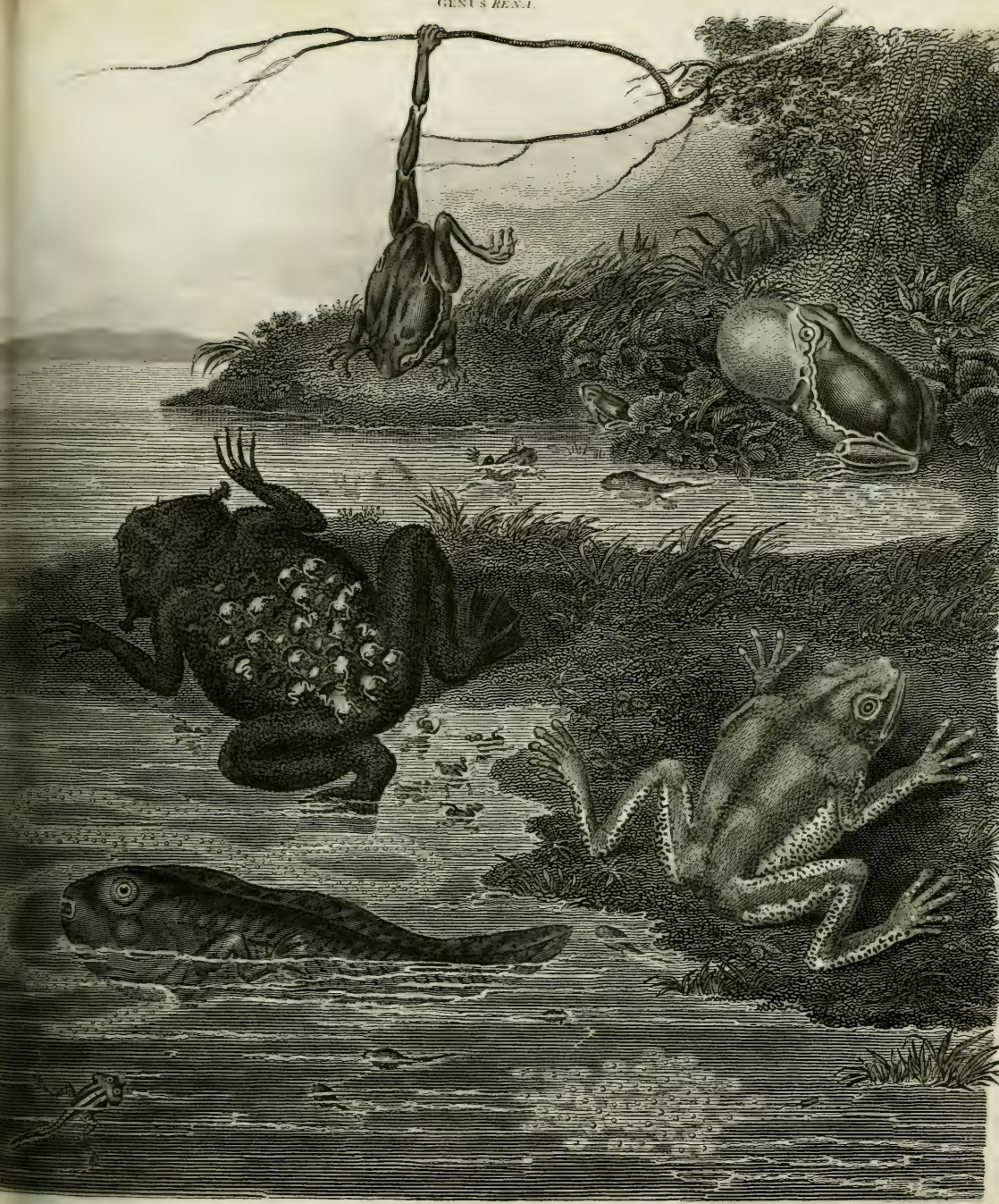
4 *T. picta*

5 *T. Mydas*

6 *T. imbricata*

DENTICULATED TORTOISE GREEN SPECKLED T. SPOTTED T. PAINTED T. ESCULENT GREEN TURTLE HAWKSBILL TU





Family Frog Family Toad

- 1. R. Pipa.
SURINAM TOAD with its Young.
- 2. R. Incolor.
TWO COLOURED FROG
- 3. Fish like tadpole
of a PARADOXIC II FROG
- 4. R. Jiboca.
TREE FROG.

Edited & Engraved by J. G. Smeathman & Co. London.



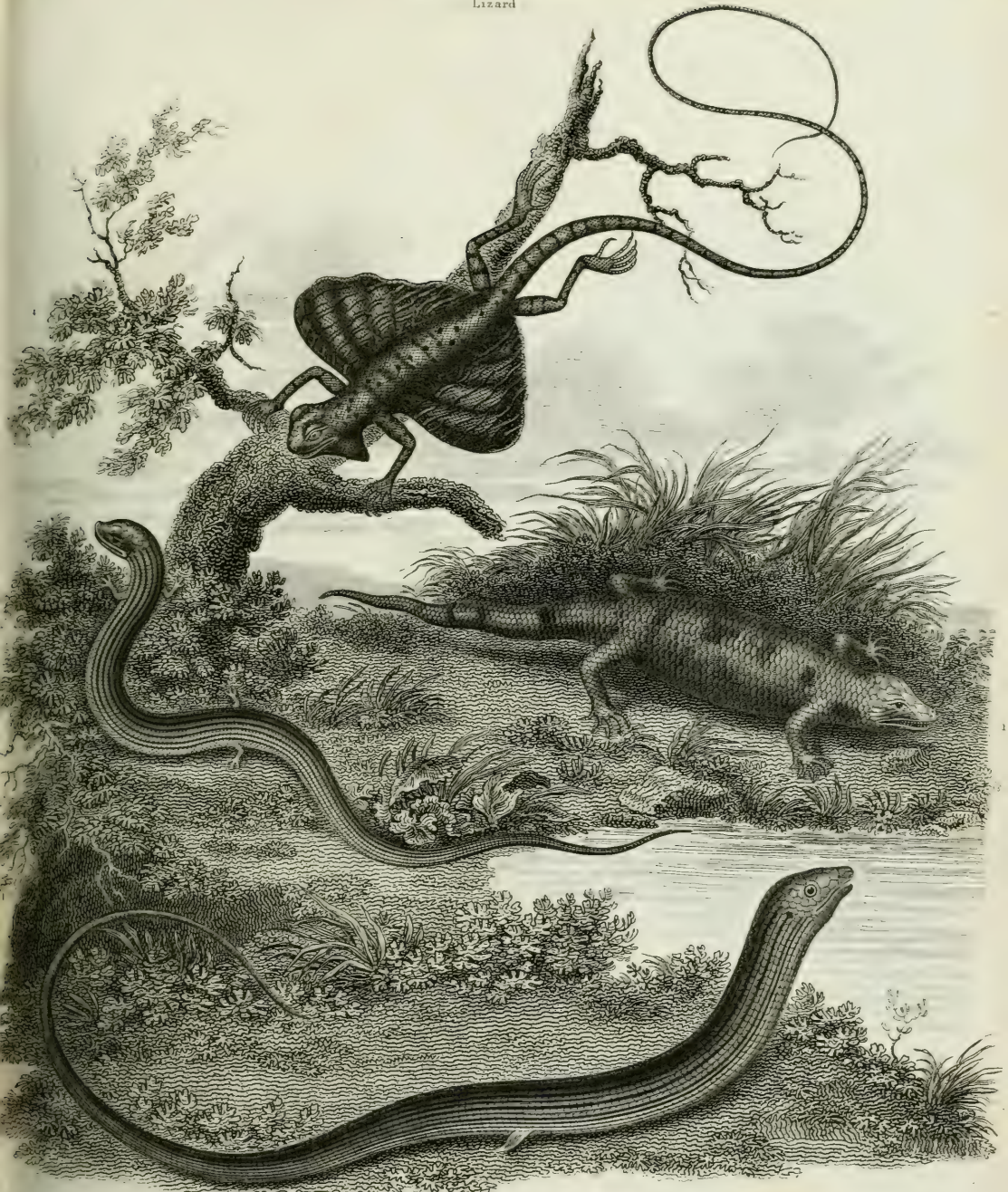


1. *L. Salamandra* 2. *L. Vittata* 3. *L. Chameleon* 4. *L. Agilis* 5. *L. Linniscata*
 SALAMANDER FORKED L. CHAMELEON GREEN L. EIGHT LINED L.

Published as the Act directs Jan. 1^o 1823 by Longman, Hurst, Rees, Orme & Brown Paternoster Row.



GENUS *LACERTA*. G. DRACO
Lizard



1. *L. scincoides* 2. *L. chalcides* 3. *L. lapus* 4. *L. draco*

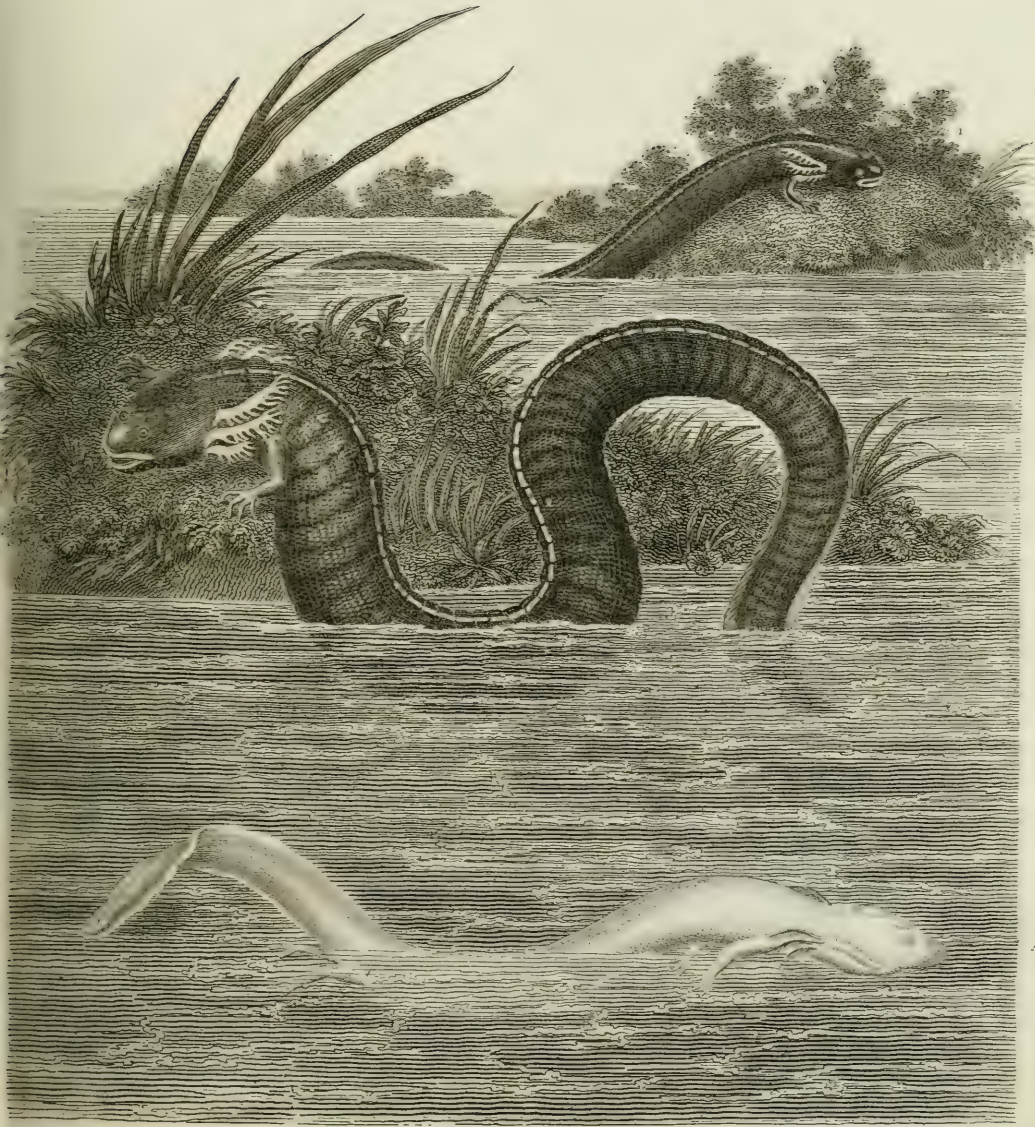
AUSTRALASIAN GALLIWASP CHALCIDES L. AFODAL L. FLYING DRAGON

Milton sculp

Published as the Act directs Feb. 1. 1814 by Longman Hurst, Rees, Orme & Brown, Paternoster Row



GENUS SIREN

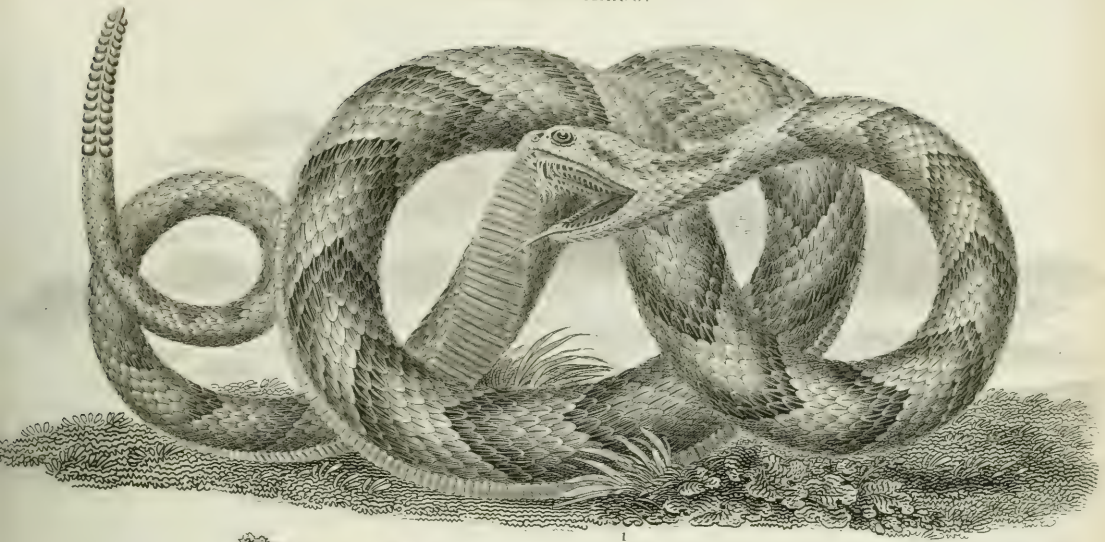


1 S. *terrestris* 2 S. *Anguina*
 1840. SCOTT'S. ANGLIS. U.S.

Facsimile of an illustration by May 1840 by Longman Harst Russell & Breen, Edinburg, Scotland.



ANPHIBIA.
GENUS CROTILUS.



(Rattle Snake)

1. *C. Horridus*
BANDED R.S.

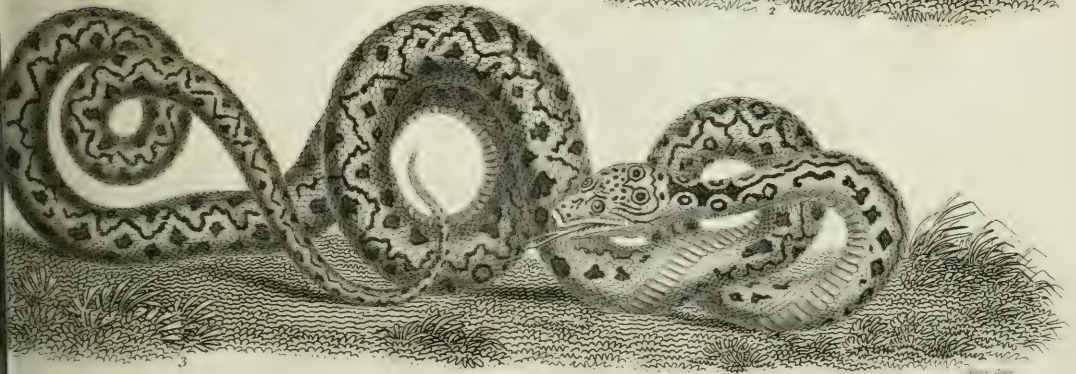
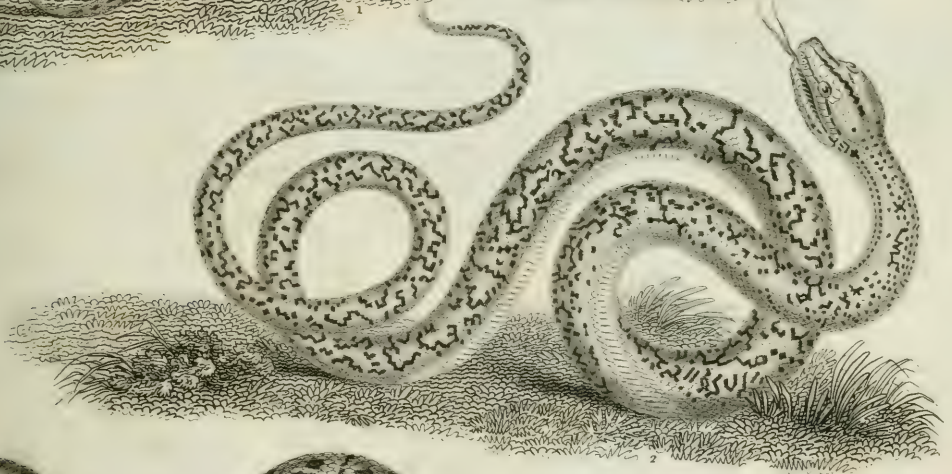
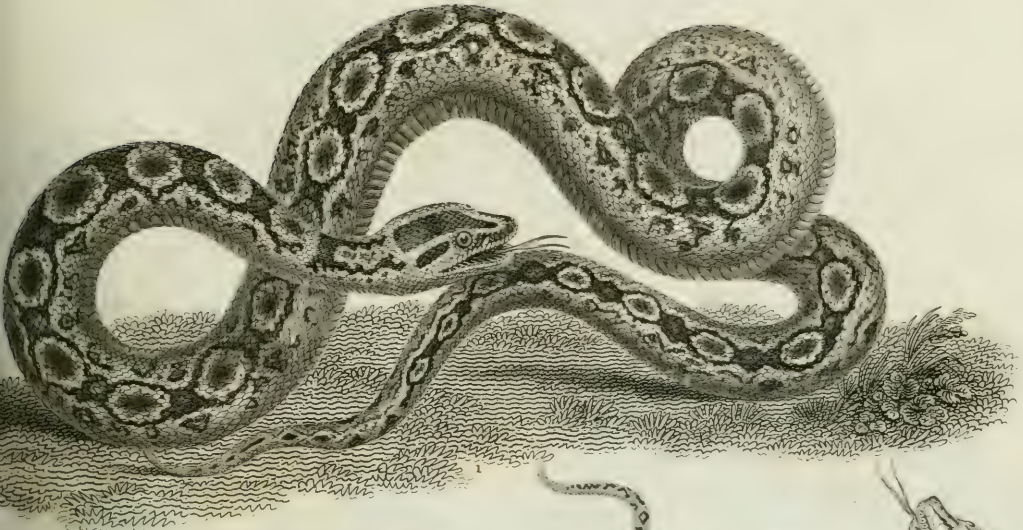
2. *C. Durissus*
STRIPED R.S.



AMPHIBIA.

GENUS BOA.

PLATE V



[Serpent

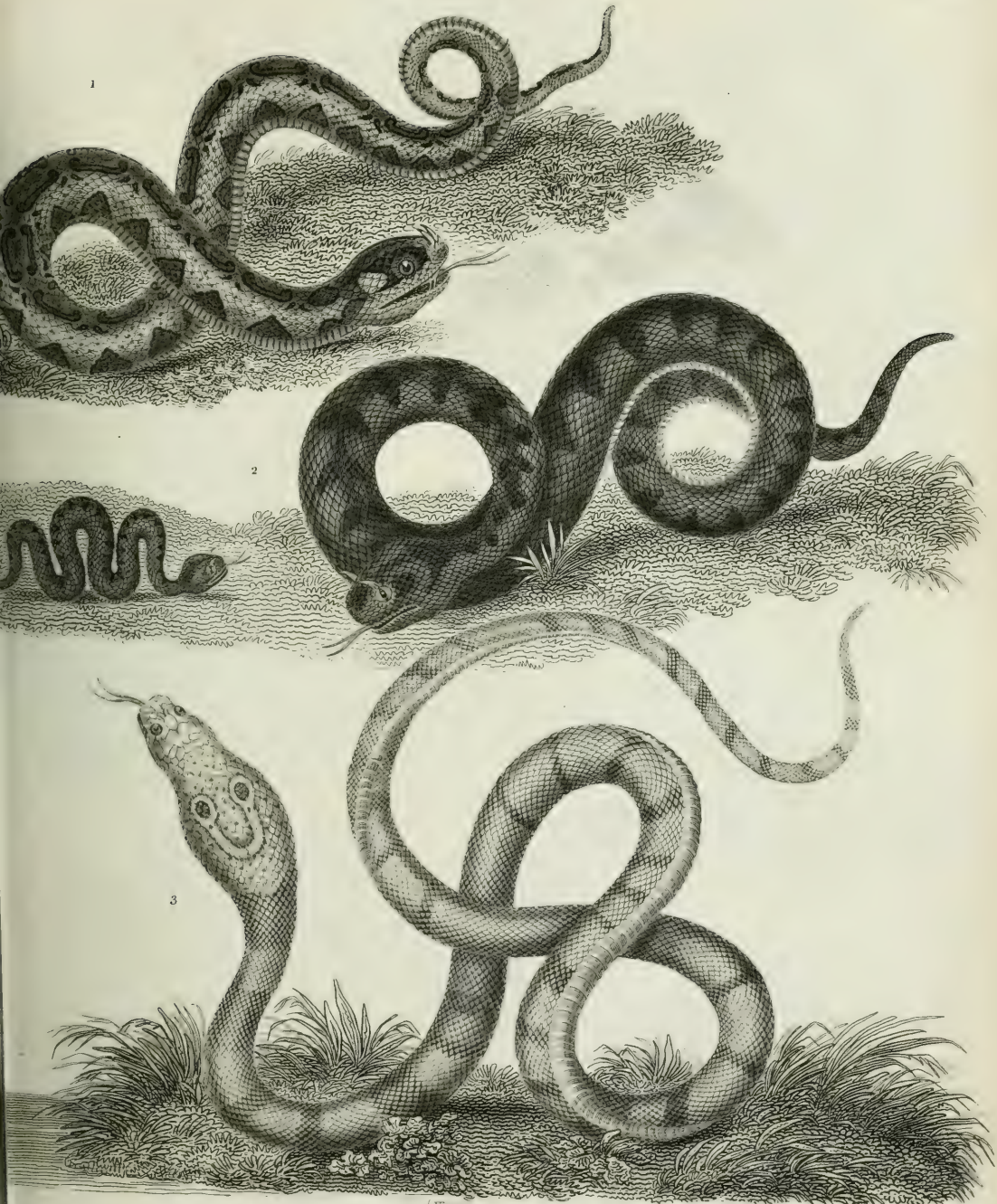
1. B. Constrictor
GREAT B.

2. B. Phrygias
EMBROIDERED B.

3. B. Hortulana
GARDEN B.

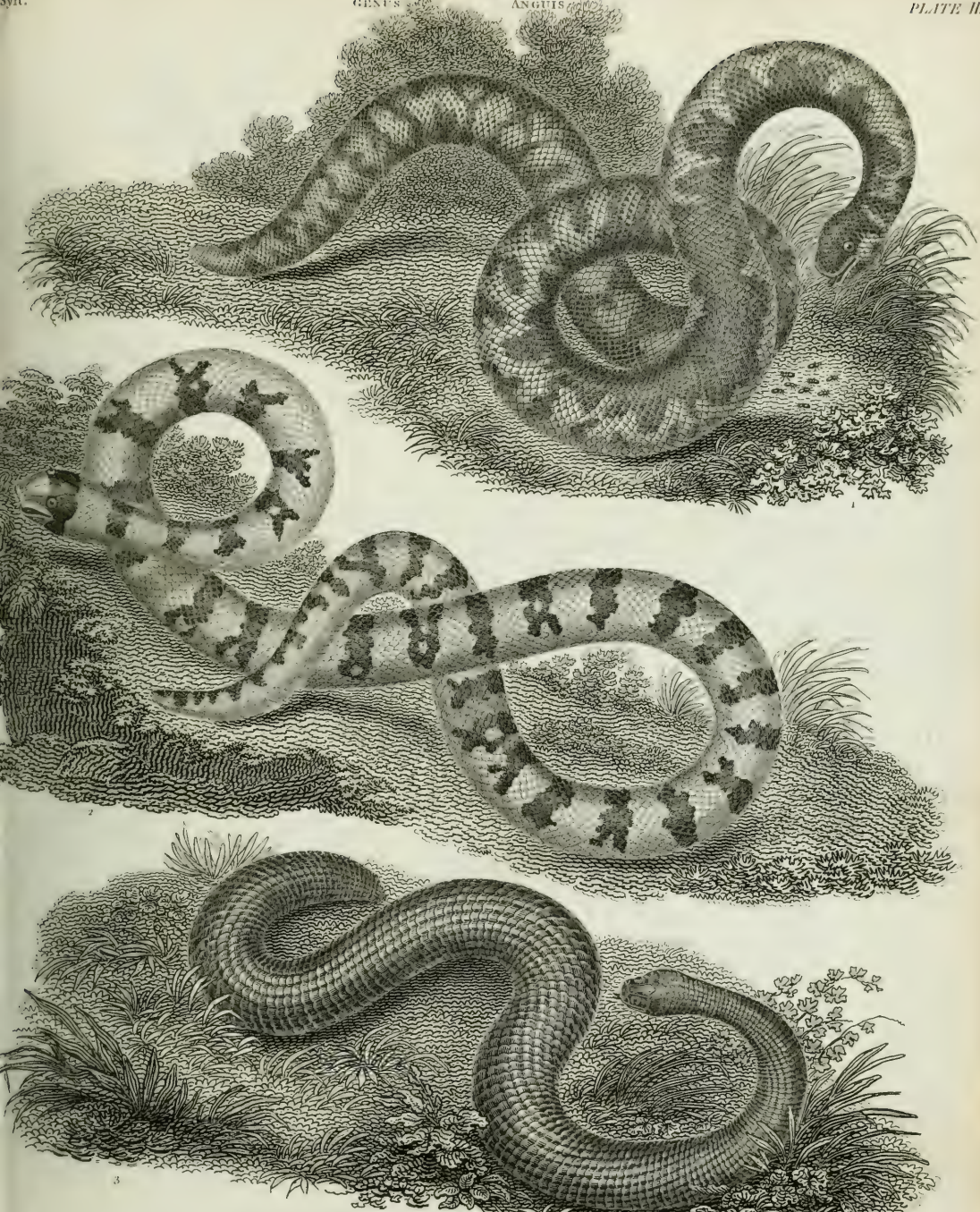
Published as the Act directs Aug. 1. 1809 by Longman Hurst, Rees & Co. Stationers Row.





(Viper)
 1. *C. nasicornis* 2. *C. Cerastes* 3. *C. Naja*
 HORN NOSE V. CERASTES V. NAGOO or SPECTACLE V.
 Published at the Six Streets, April 1st 1849, by Longman, Juxon, Kees & Orme, Paternoster Row.





Slow Worm

1. A. Coraline
CORAL S.

2. A. ater
BLACK BANDED S.

3. A. Jamaicensis
JAMAICA S.



GENUS AMPHISBENA L. GEN. CECILIA

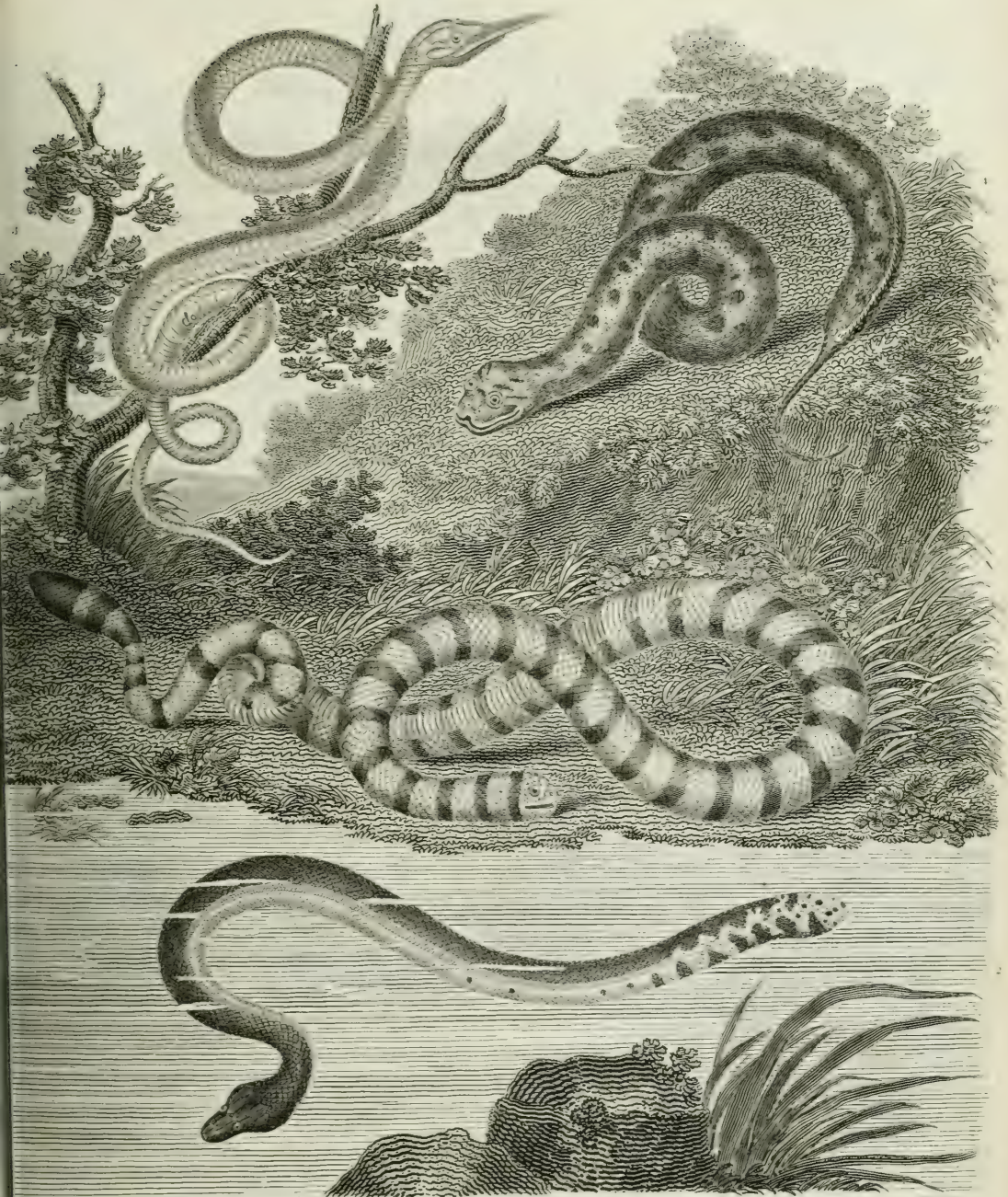


1. *Alba*. 2. *fuliginosa*. 3. *tentaculata*
 WHITE'S. FULIGINOSA'S. EEL SHAPED C

Published as the Act directs March 1st 1834 by Longman Hurd, Rose Orme & Fowen, Stationer Court.

AMPHIBIA.

GENUS HYDRUS - G. LANGIYA - G. ACROCHORDIUS

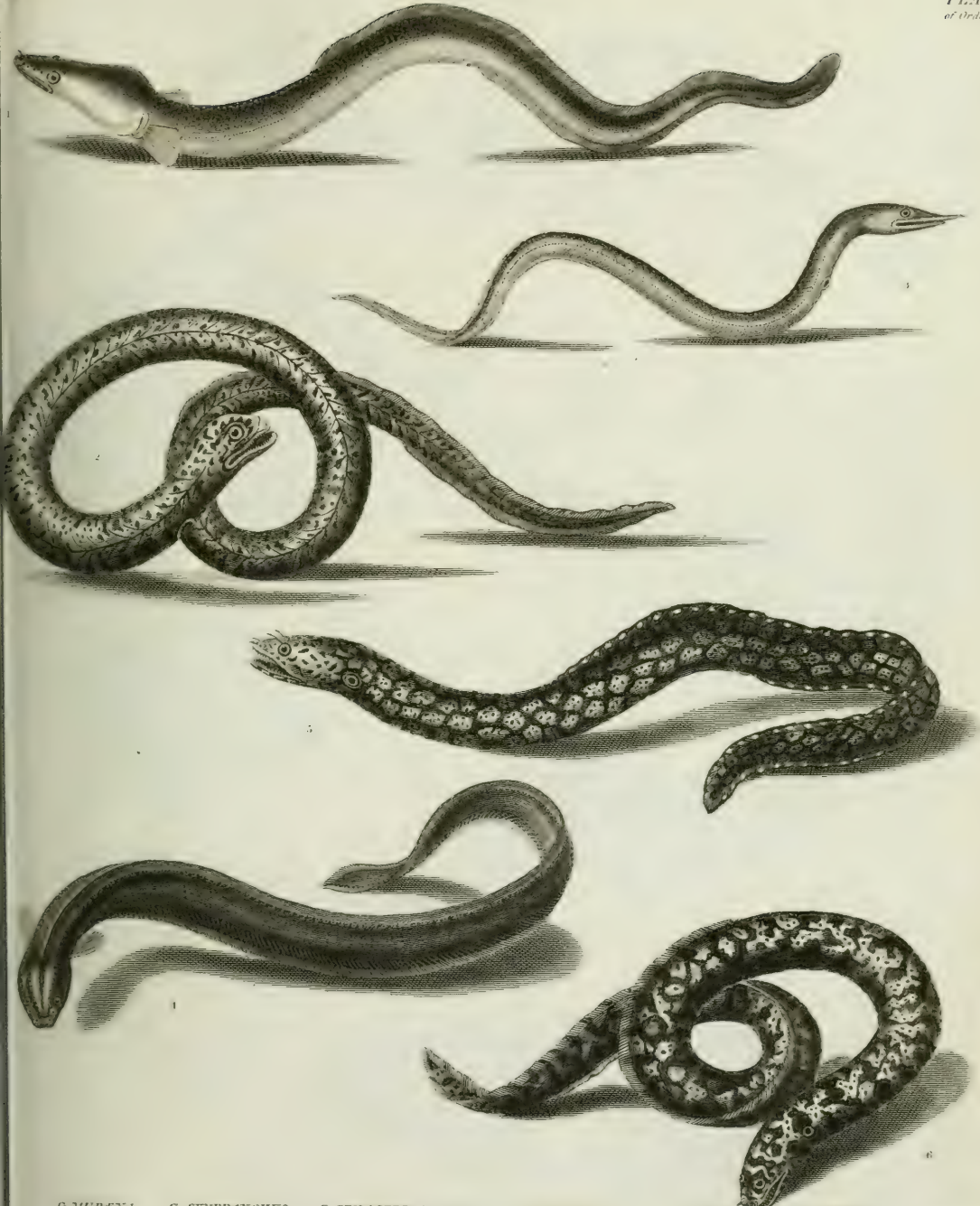


1. *H. Colubrinus* 2. *H. bicolor* 3. *A. naja* 4. *A. dabo*
 COLEBRINE H. BLACK BICKED H. SNOOTED L. SNAKE



ICHTHYOLOGY.

ORDER IPODES.



G. MURENA
1. M. Aquilla
EEL MURENA

G. SINBRANCHUS
2. Sph. Marmoratus
MARBLED SINBRANCHUS

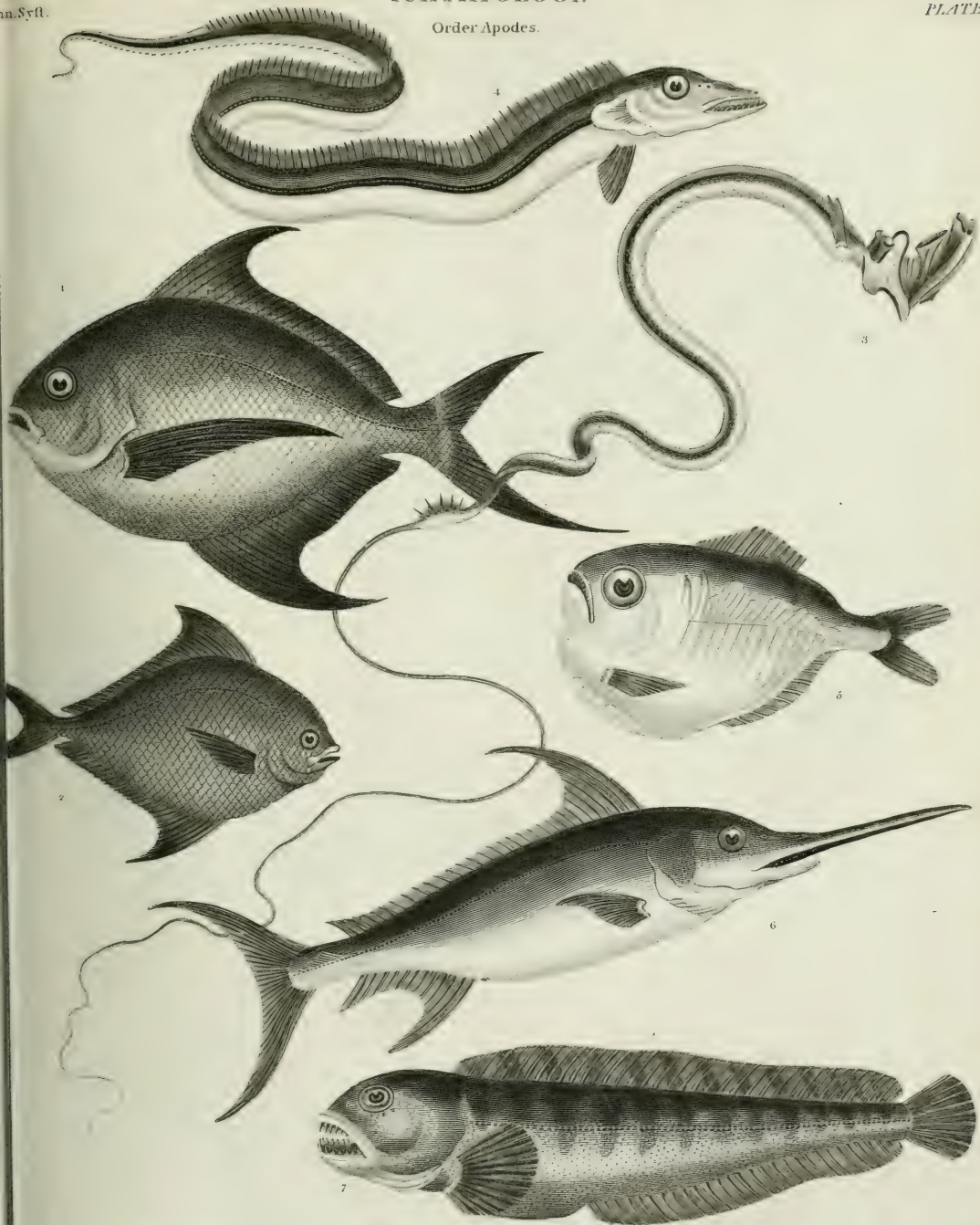
G. SPHICEBRANCHUS
3. Spha. Rostratus
SNOUTED SPHICEBRANCHUS

G. GYMNOTUS
4. Gymn. Electricus
ELECTRIC GYMNOTUS

GENUS GYMNOTHORAX
5. Gymn. Murena
EEL GYMNOTHORAX
6. Gymn. Catenatus
CHAIN GYMNOTHO²

Milton sculp

Order Apodes.



GENUS STROMATEUS	G. STILPEPHORUS	G. TRICHIURUS	G. STERNOPTIX	G. XIPHLAS	G. ANARHCAS
1. <i>Str. cinereus</i>	3. <i>Sty. chordatus</i>	4. <i>T. arcticus</i>	5. <i>Ste. diaphana</i>	6. <i>X. gladius</i> (Sword Fish)	7. <i>A. lupus</i> Wolf Fish
2. <i>— niger</i>					

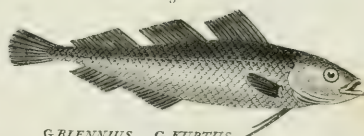
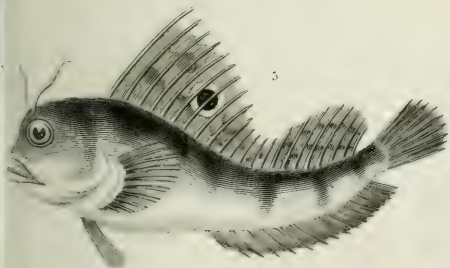
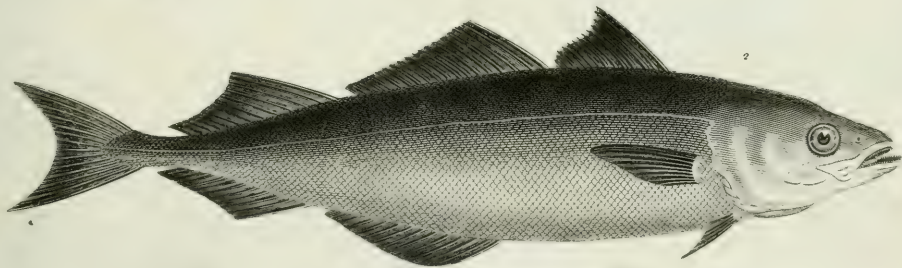
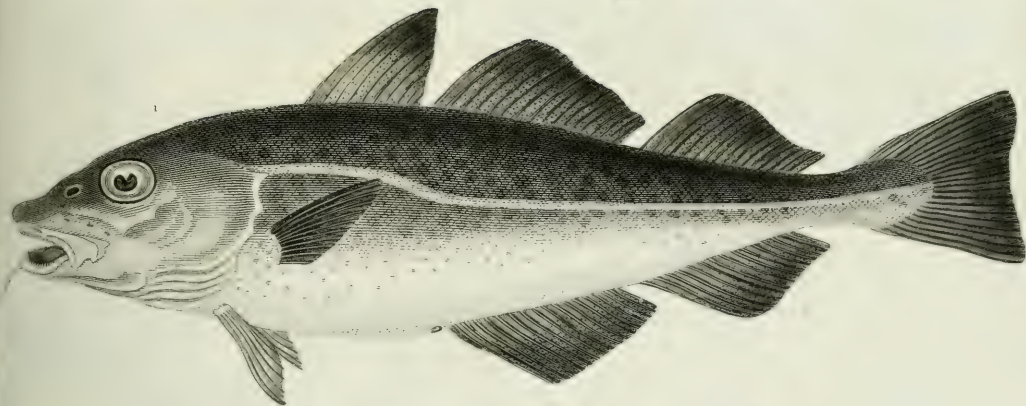
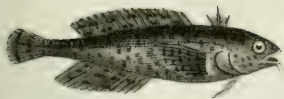
Published as the Act directs, Nov. 1. 1813, by Longman, Hurst, Rees, Orme & Brown, Paternoster Row



GEN. TRICHINUS (Weever)	G. CRINOSCOPIUS (Star gazer)	G. CULLIONYMUS (Dragonet)
1. <i>T. major</i>	3. <i>C. asaber</i>	4. <i>C. dracunculoides</i>
2. <i>T. draco</i>	5. <i>C. lynx</i>	5. <i>C. lynx</i>
3. <i>T. n. n.</i>	6. <i>C. n. n.</i>	6. <i>C. n. n.</i>

Published on the 24th March, 1874, by Longman, Hurd, Roper & Co., London.

ORDER JUGULARIS

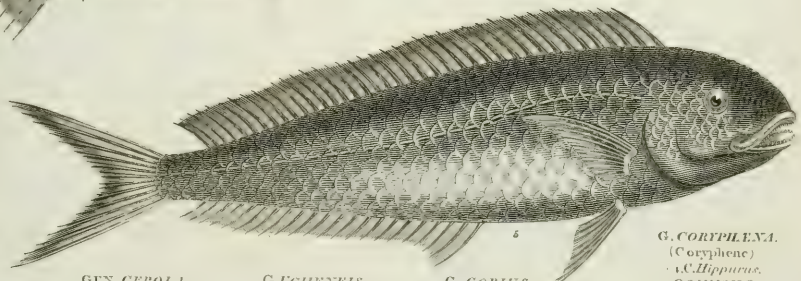
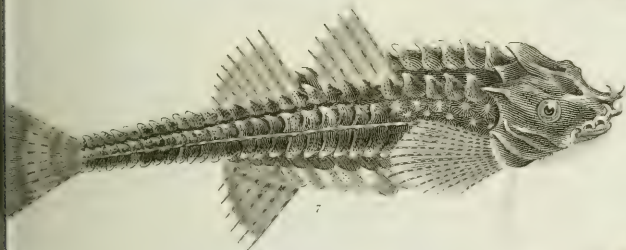
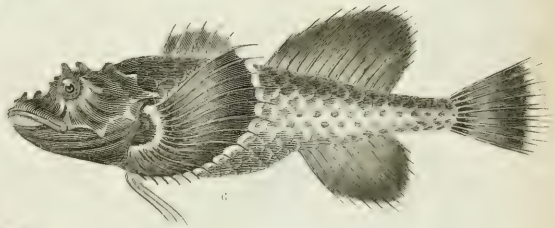
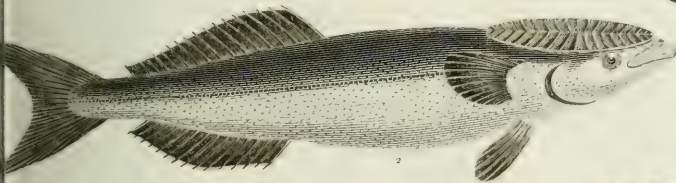
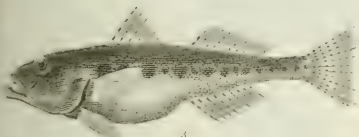


GENUS GADUS

G. BLENNIUS G. KURTUS

1. G. morhua — 2. G. carbonarius — 3. G. minutus — 4. G. tau — 5. B. maris — 6. K. indicus
 (Cod) (Coal Fish) (Poor)

Milton sculp



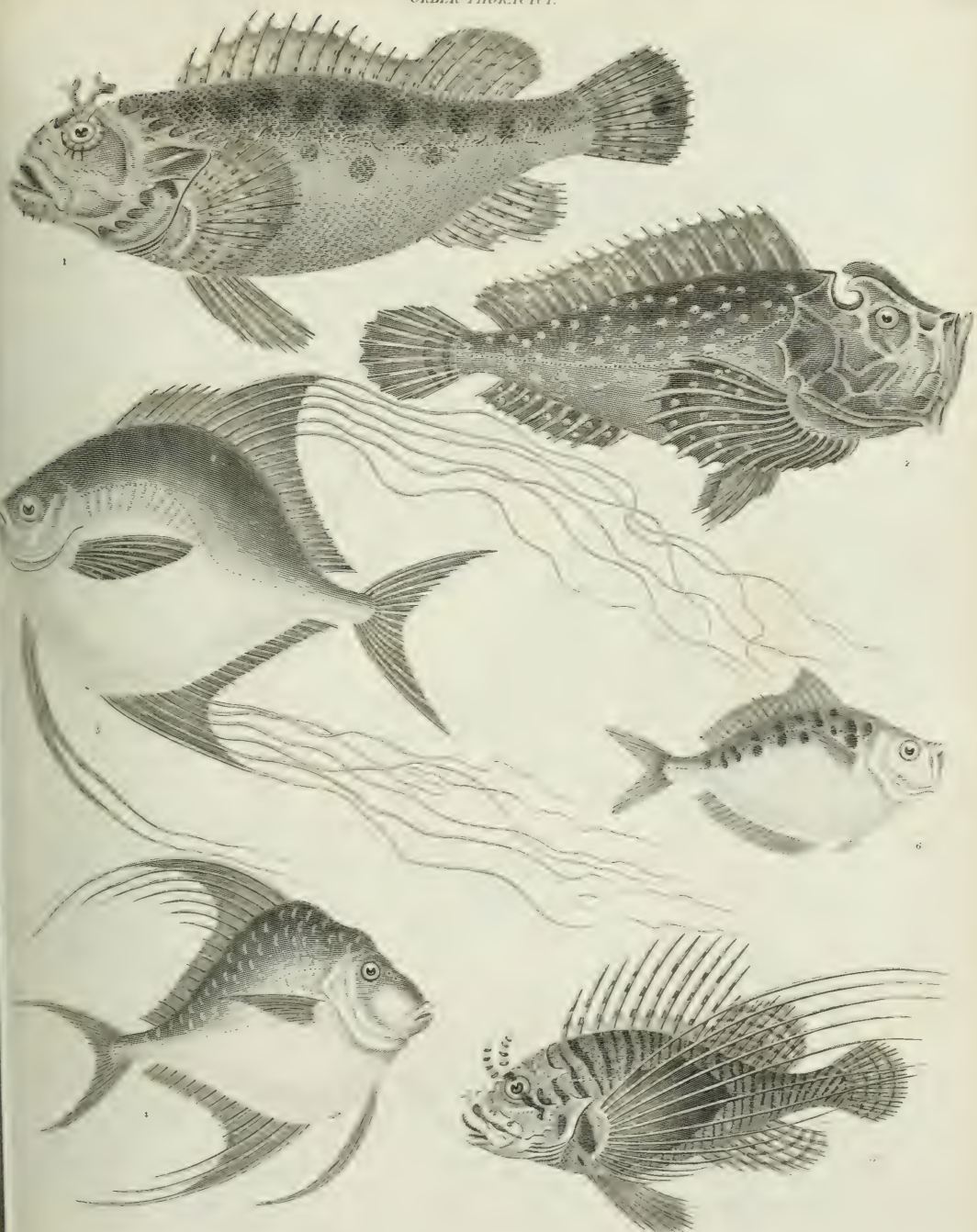
G. COTTUS.
 (Bull Head)
 6 *C. Granaticus*
GRUNTING BULL HEAD.
 7 *C. Gulosus*
MULEBBIE.

GEN. CEPOLI.
 (Ribband Fish)
 1 *C. Tonda*.

G. ECHENEIS.
 (Sucking Fish)
 2 *E. Remora.*
MEDITERRANEAN SE.

G. GobiUS.
 (Goby)
 3 *G. Minutus.*
SPOTTED G.

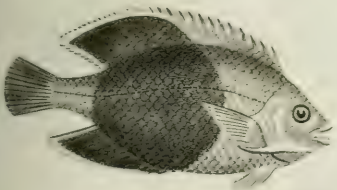
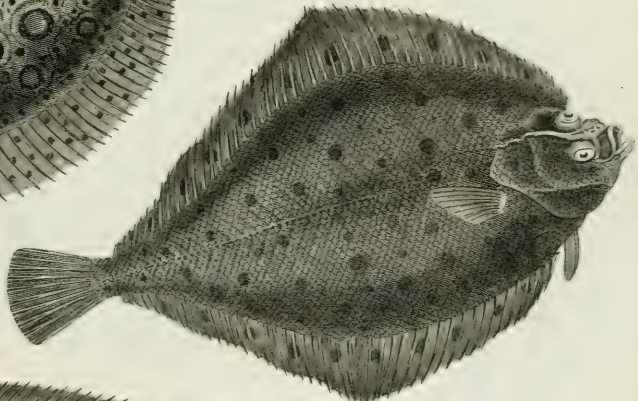
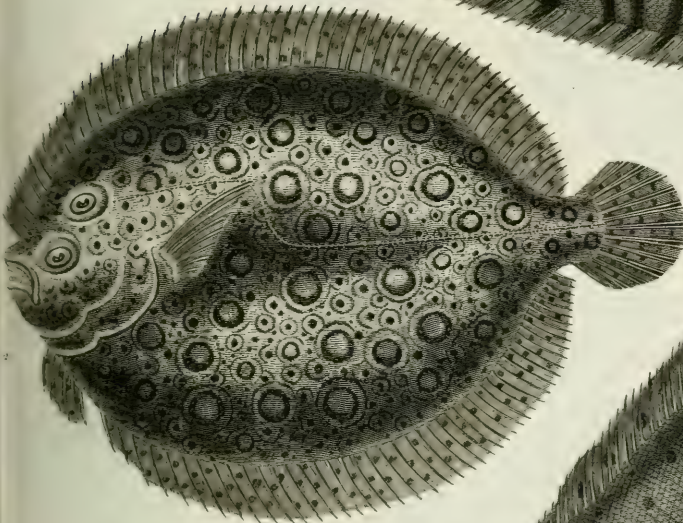
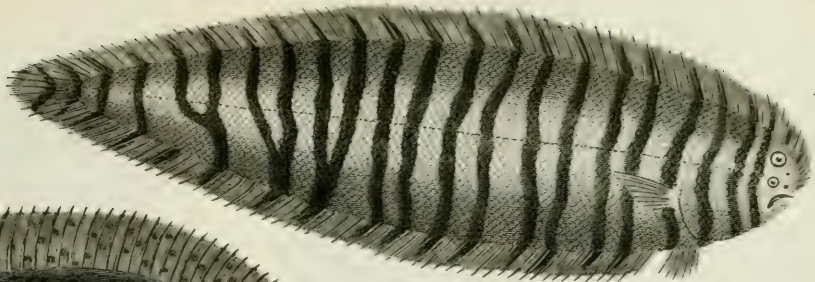
G. CORYPLENA.
 (Coryphene)
 4 *C. Hippurus.*
COMMON C.
 5 *C. Pindacyle.*
FIVE SPOT C.



G. SCORPENA

GENUS ZEUS

1. *S. Scrofa* - 2. *S. Alborida* - 3. *S. Antennata* - 4. *Z. Gallus* - 5. *Z. Ullaris* - 6. *Z. insidiator*

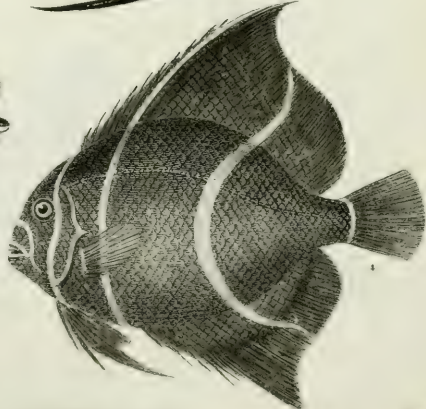
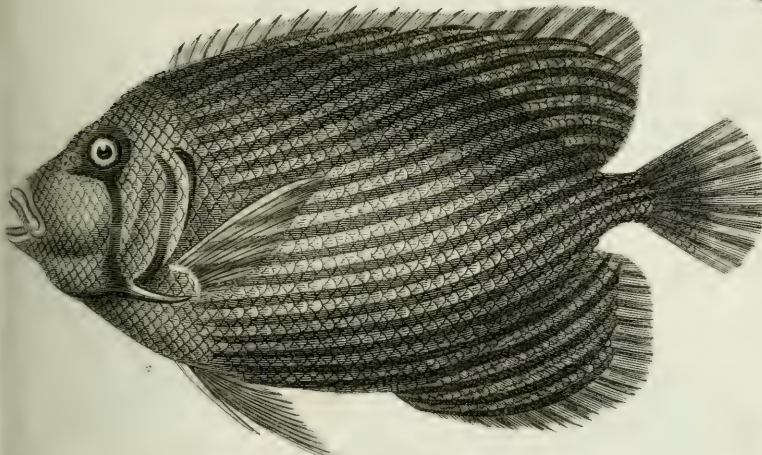
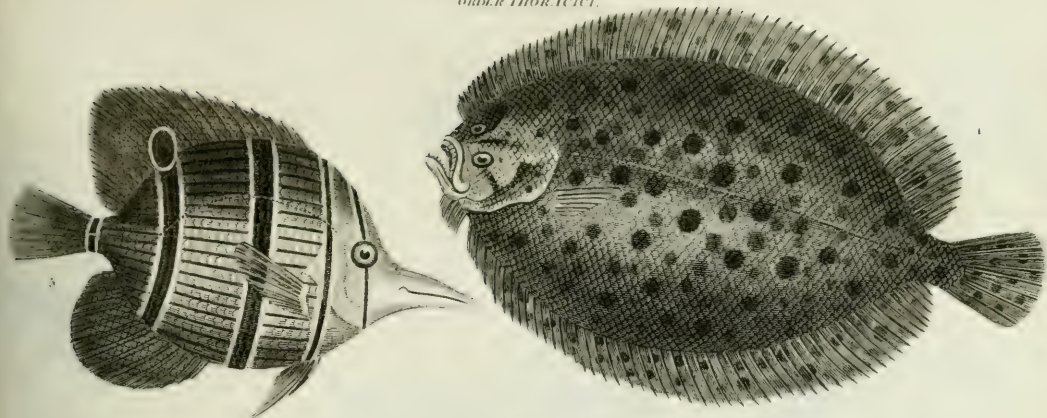


GENUS PLEURONECTES
Flounder.

G. CLETODON

1. P. Zebra - 2. P. Argus - 3. P. Platessa - 4. P. Billineatus - 5. C. Bicolor - 6. C. Fasciatus

Published as the 1st direct April 1 1842 by Leighton Hurst Ross, Orme & Brown Rutemaster Boston



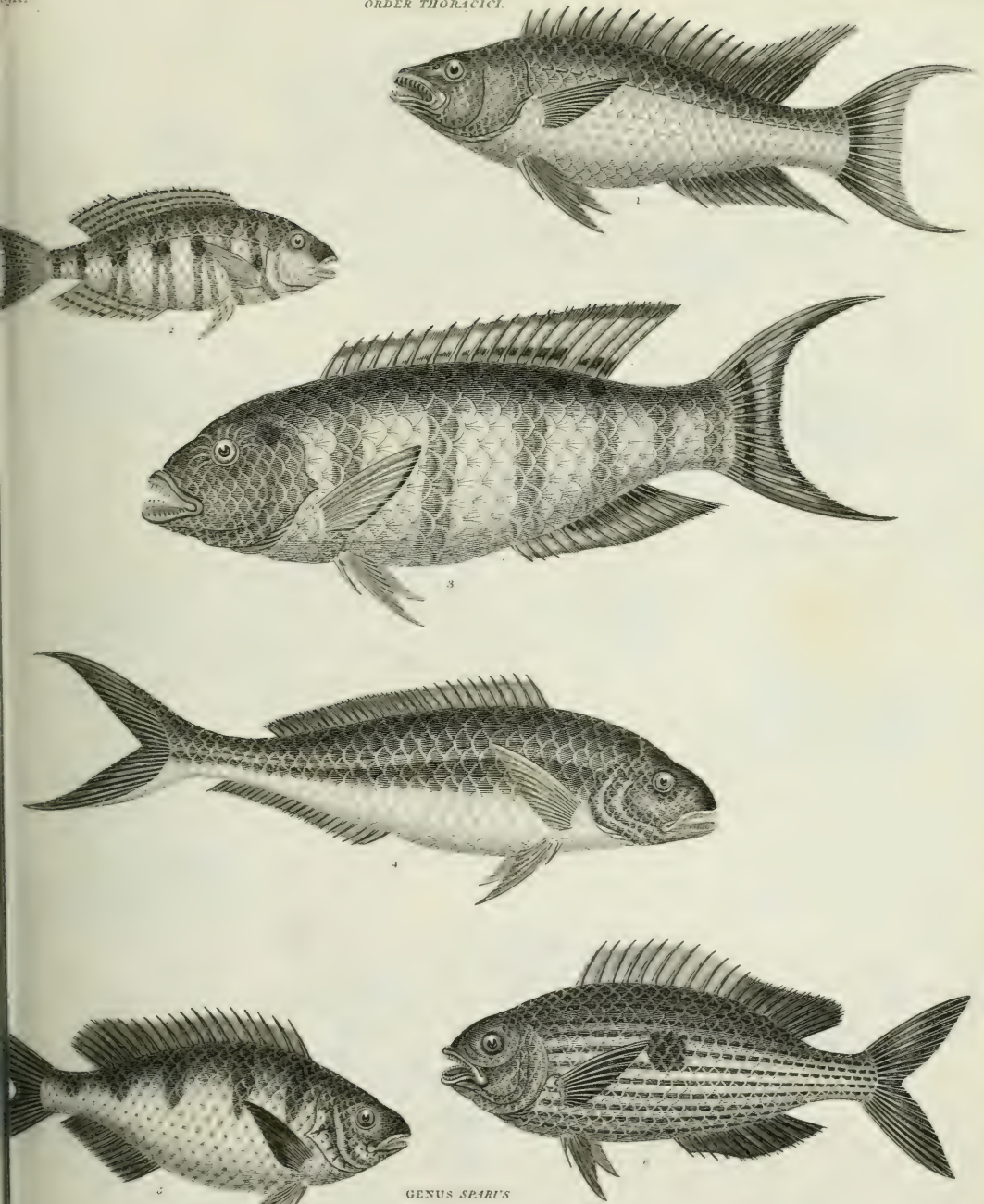
G. PLEURONCTES

Flounder

GENUS CHETODON

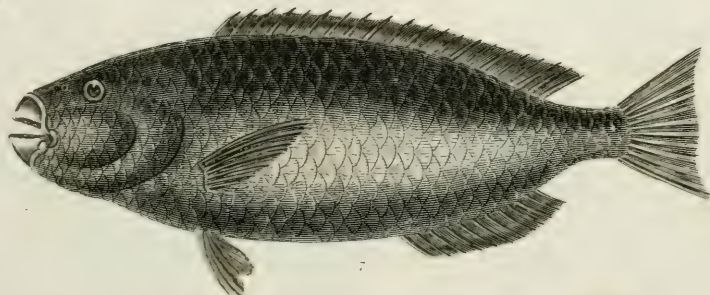
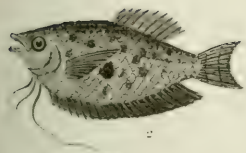
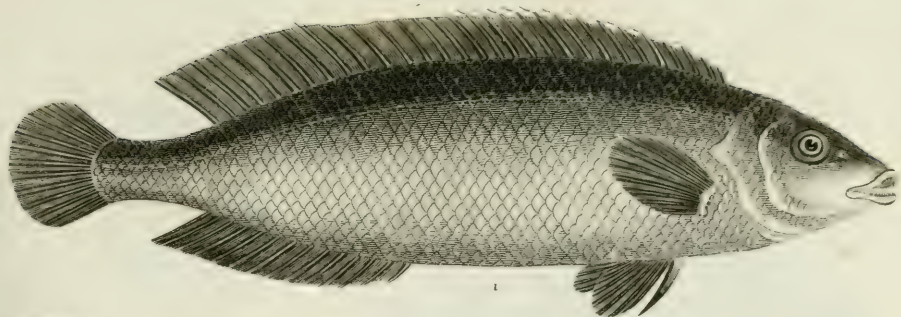
1. P. punctatus 2. C. imperator 3. C. marginatus 4. C. arcuatus 5. C. rostratus 6. C. tigris

Published at the Art directors' No. 1, 1861, by Longman Hurd Ross Orme & Brown Paternoster Row



GENUS SPARUS
(Gilt head)

- | | | | | | |
|-----------------------|---------------------------|----------------------|-------------------------|--------------------------|--------------------|
| 1. <i>S. fulvipes</i> | 2. <i>S. Surinamensis</i> | 3. <i>S. tziatus</i> | 4. <i>S. Chryssurus</i> | 5. <i>S. auricularis</i> | 6. <i>S. magna</i> |
| CALCATED G. | SURINAM G. | BANDED G. | GOLDEN TAIL G. | ANNULATED G. | CKERREL G. |



GENUS LABRUS

G. SCARUS

1. *microlepidotus* — 2. *trichopterus* — 3. *malopterus* — 4. *maculatus* — 5. *punctatus* — 6. *melagaster* — 7. *viridis*

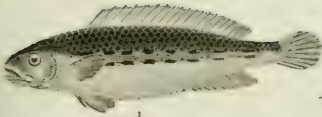


G. SCARUS

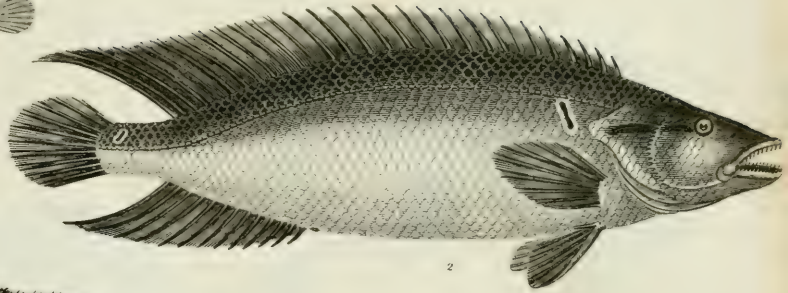
GENUS SCLENA

1. S. arcensis — 2. S. diaantha — 3. S. cirrosa — 4. S. punctata — 5. S. plumieri.





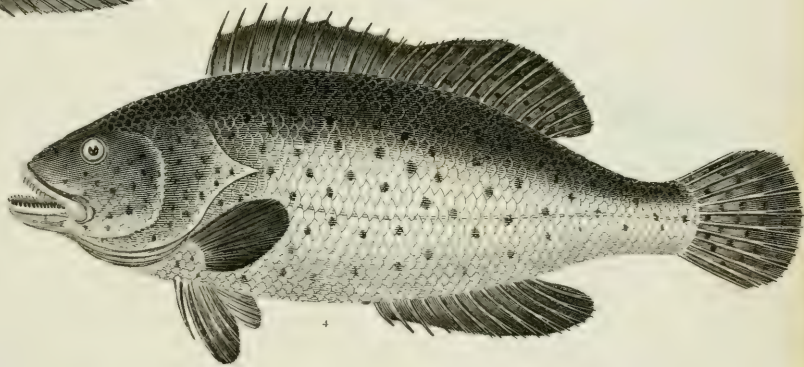
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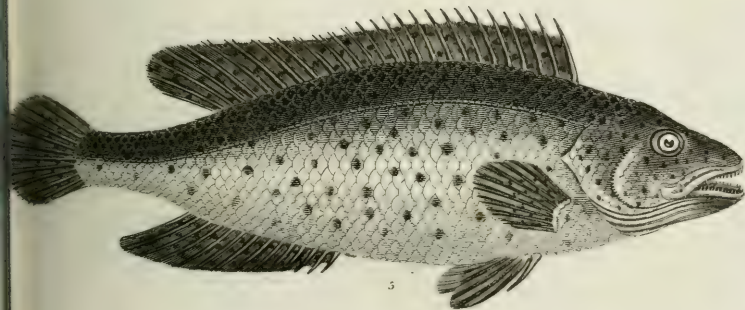
2



3



4



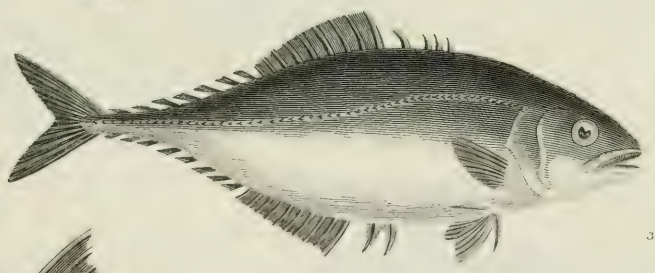
5



6

GENUS PERCA
Perch)

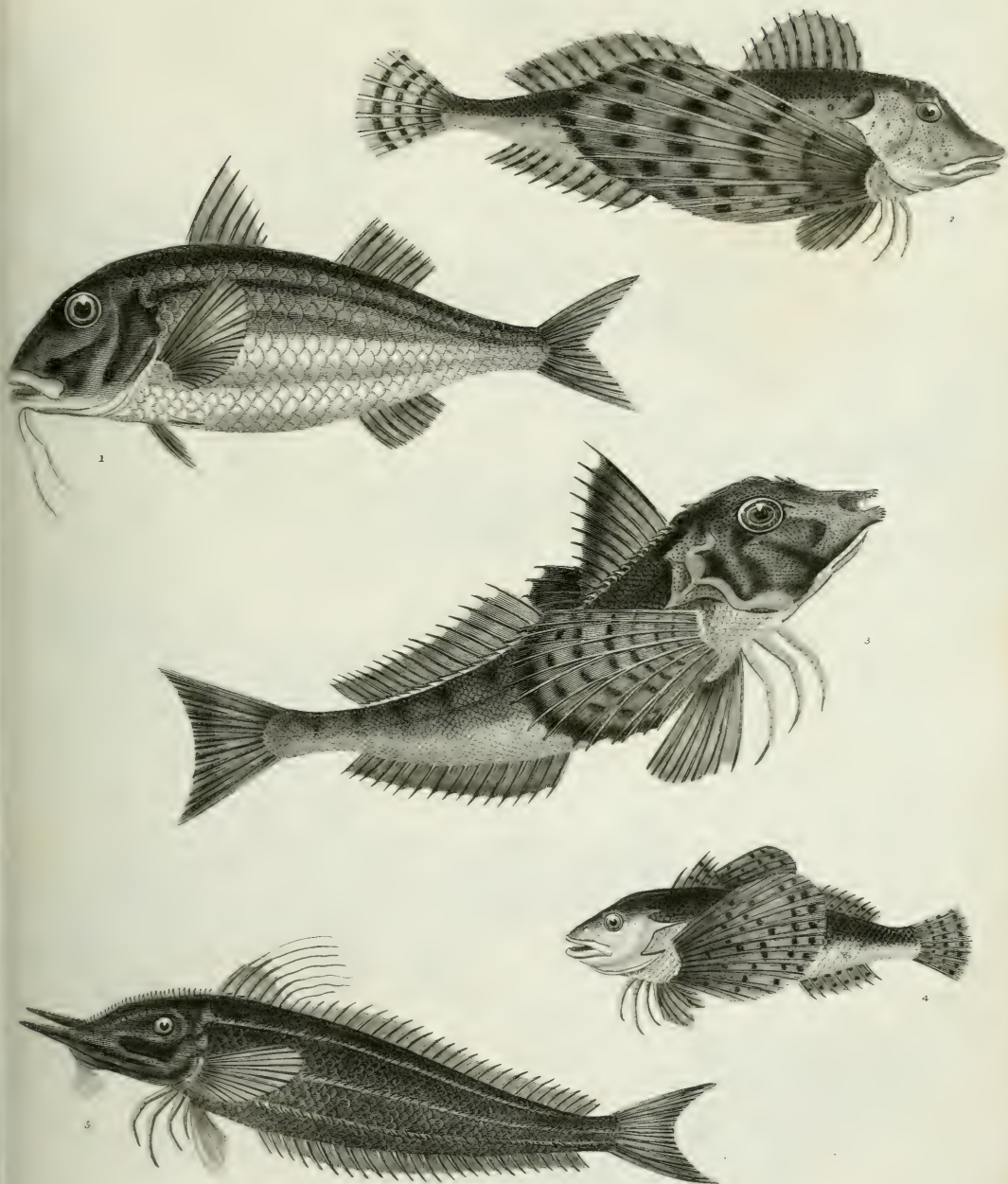
1. *P. brasiliensis* — 2. *P. saxatilis* — 3. *P. punctata* — 4. *P. guttata* — 5. *P. maculata* — 6. *P. bimaculata*.



GENUS SCOMBER
Mackerel

G. LONCHICRUS

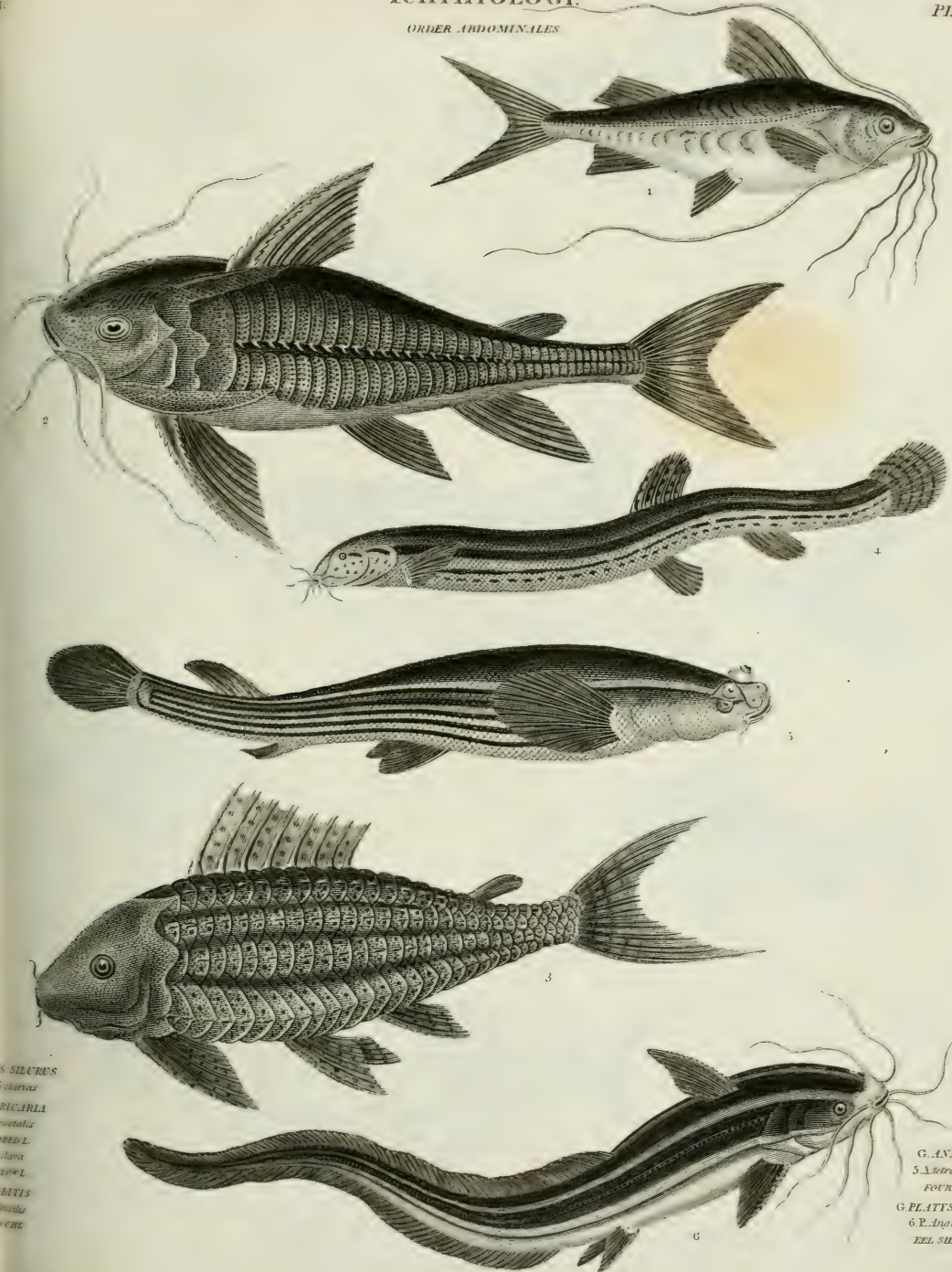
1. S. Sarda 2. S. Niger 3. S. Solanus 4. S. Ruber 5. L. Barbatus



G. MULLUS
Mullet

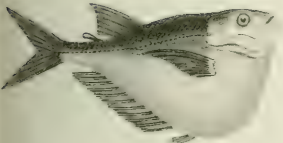
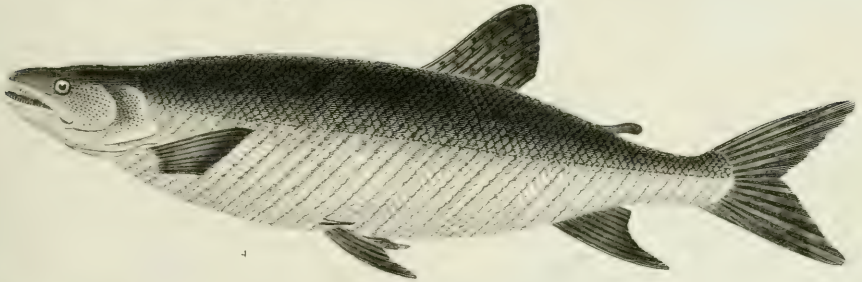
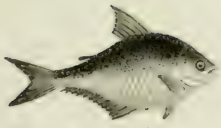
GENUS TRIGLA
(Gurnard)

1. *M. Surmuleus* — 2. *T. Carolina* — 3. *T. Hirundo* — 4. *T. Punctata* — 5. *T. Cataphractus*.



PUS SILURUS
 S. Solaras
 S. RIC-IRRI
 S. rotatus
 S. RED-L
 S. Java
 S. BLOW-L
 S. BITIS
 S. Gaudis
 S. CBL

G. ANABLEPS
 5. A. tetraphthalmus
 FOUR EYED
 G. PLATYSTICHUS
 6. P. Inquilaris
 EEL SHAPED

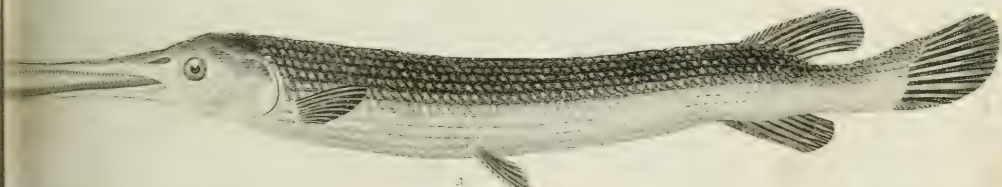
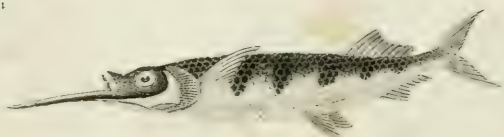
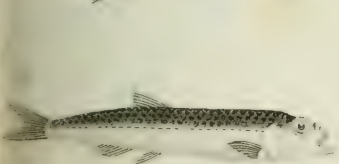
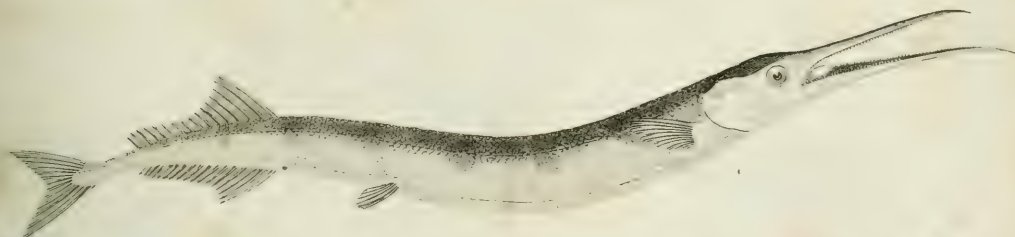
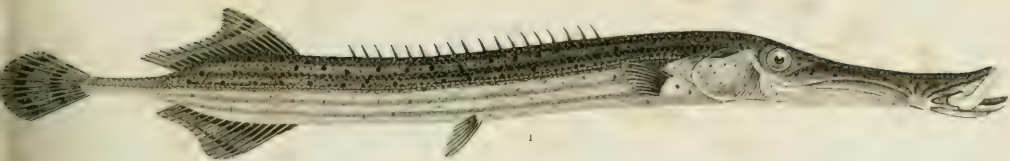


GENUS SALMO

Salmon

- 1 *S. bimaculatus* - 2 *S. fasciatus* - 3 *S. tumbil* - 4 *S. odac* - 5 *S. gasteropelecus* - 6 *S. friderici* - 7 *S. rhombus*

Published as the Act directs. July 1st 1850 by Longman, Hurst, Rees, Orme & Brown, Paternoster Row



FISTULARIA

Tobacco Pipe Fish

1. *F. chilensis*

2. *F. tobacaria*

3. *F. oceanus*

GEN. ESOX

(Sea Pike or Gar-Fish)

4. *E. bolone*

5. *E. brasiliensis*

ELOPS

ARGENTINA

(Argentine)

6. *E. saurus*

7. *A. ophiocera*

CHINESE TOBACCO F.F.

SPOTTED TOBACCO F.F.

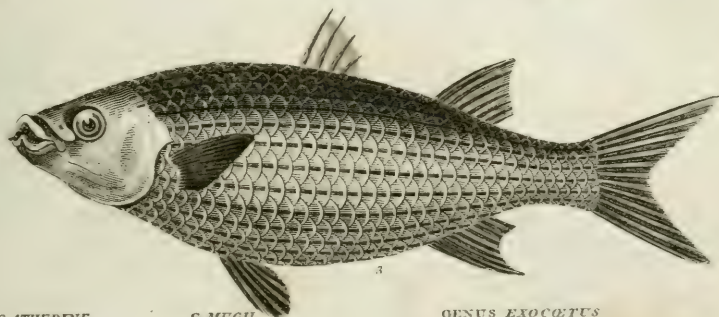
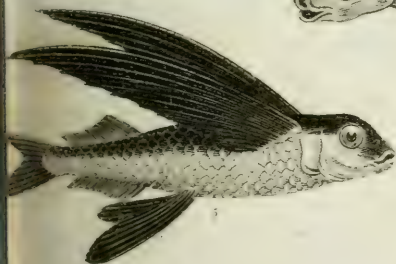
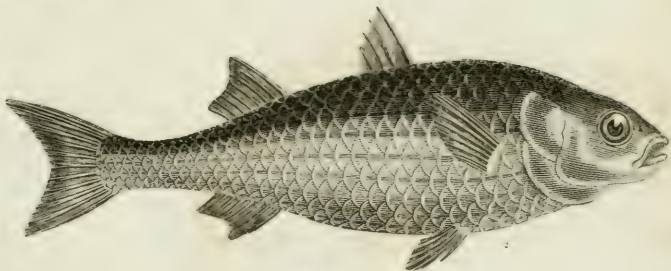
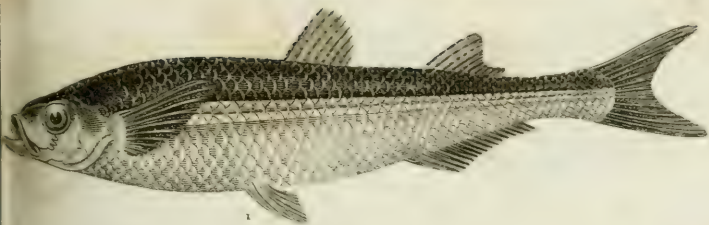
6th GAR FISH or BONY F.

SEA PIKE or GAR F.

BRASILIAN F.

EUROPEAN F.

ORDER ABDOMINALES



G.ATHERINE

(Atherine)

1. *Atherina*

COMMON ATHERINE

G.MULL

(Mullet)

2. *Mullus*

TANG M.

3. *M. cephalus*

GREY M.

GENUS EXOCETUS

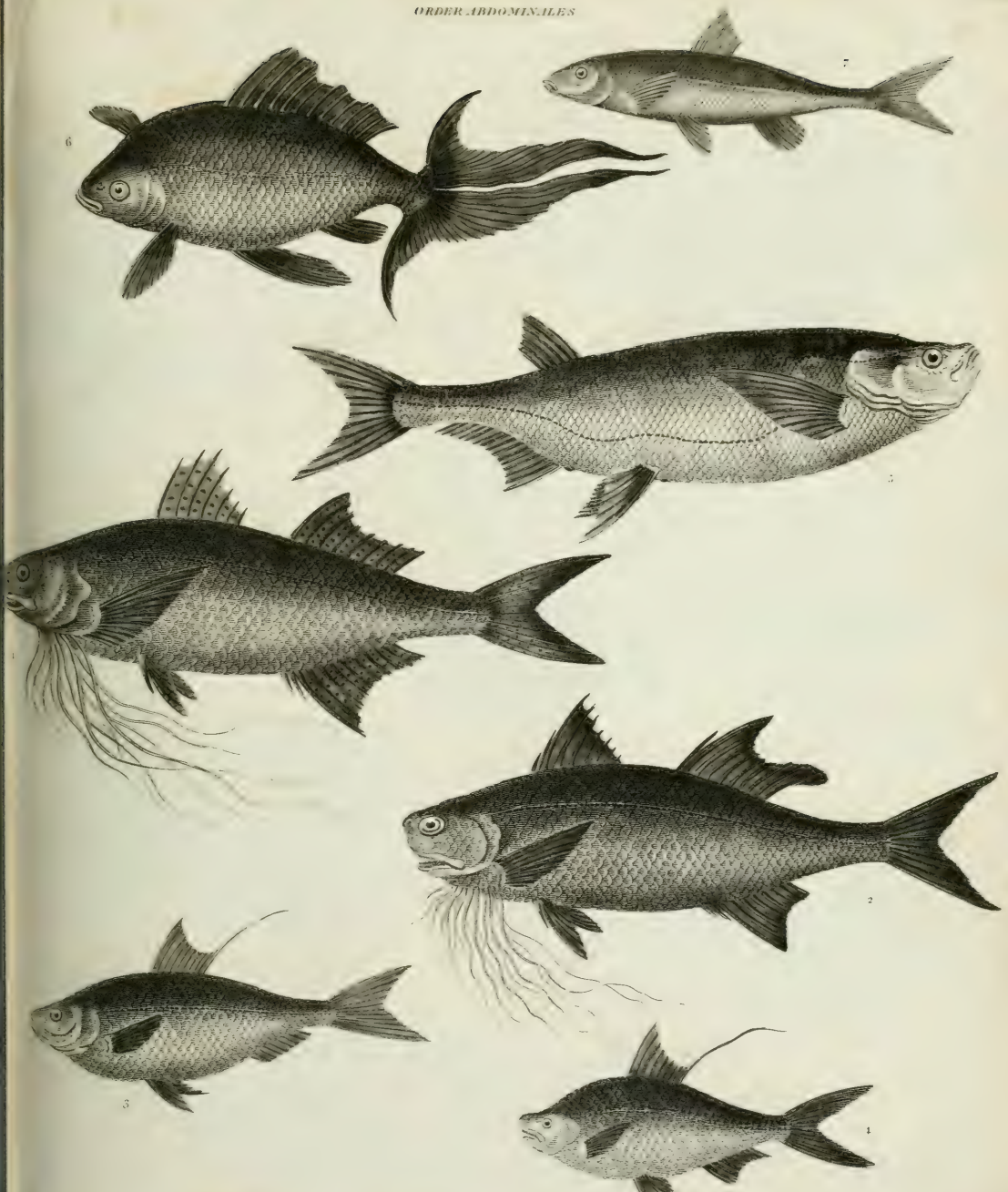
(Flying-Fish)

4. *E. volans*

MEDITERRANEAN EE. SWALLOW EE. ATLANTIC EE.

5. *E. caillieu*

6. *E. mecopaster*



G. POLYNEMUS

Polynemus

1. P. Paradicus

PARADISE F.

G. CLUPEI

Herring

2. P. Decadactylus

TEN FINGERED F.

3. C. Triena

FLORISSAH.

4. C. Nasus

NASALH.

GENUS CYPRINUS

5. C. Giltratus

RAZOR C.

6. C. Auratus

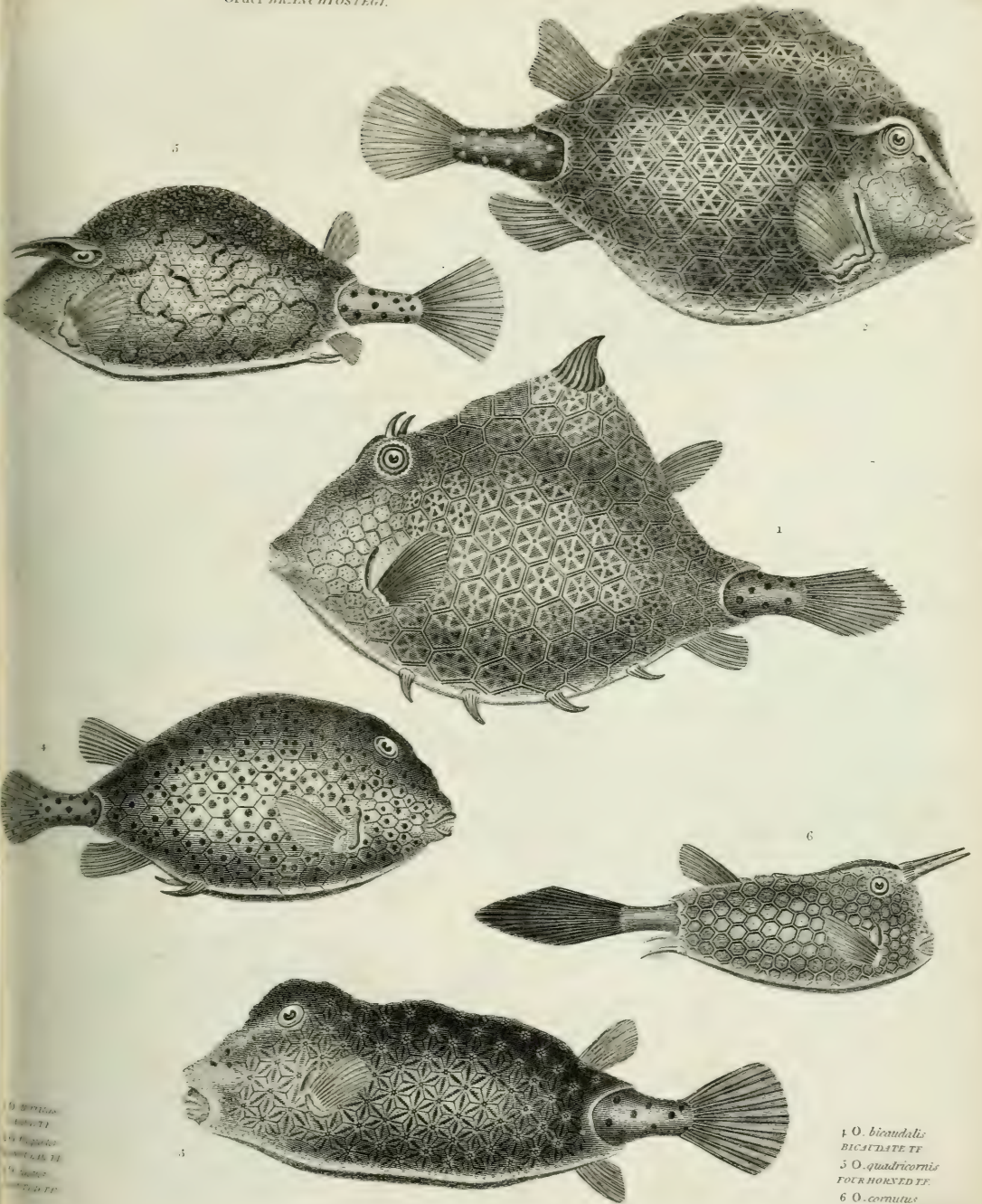
GOLDEN C. var

7. C. Phosinus

MINOH

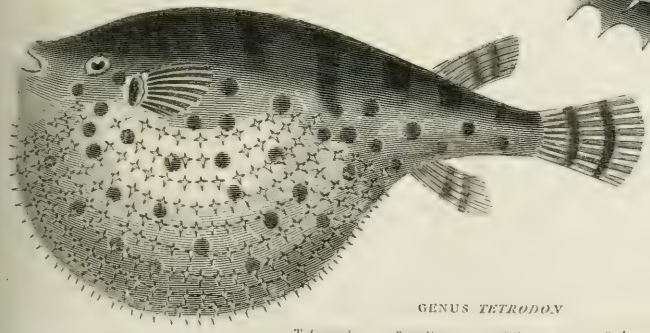
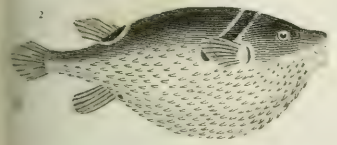
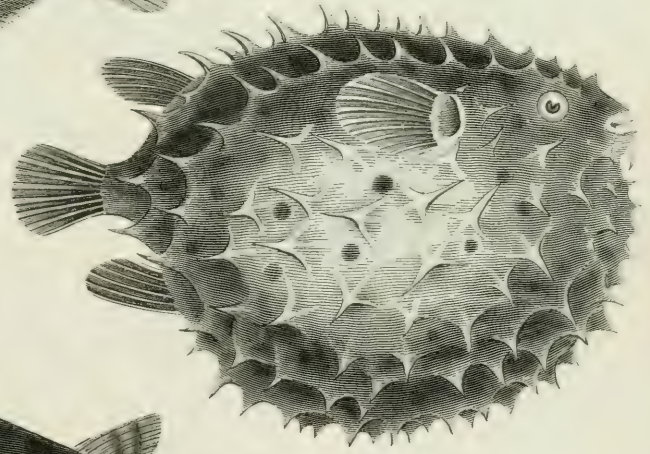
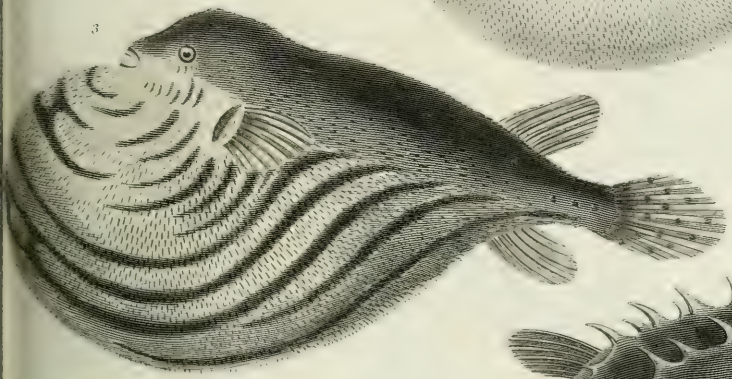
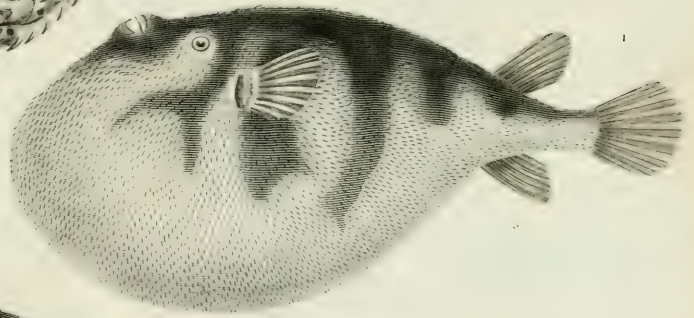
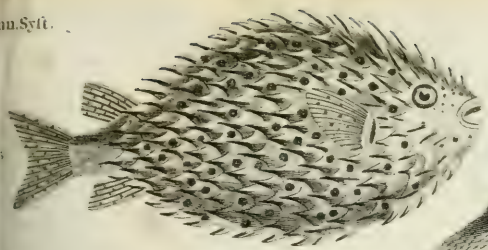
Milner sculp.

Order BRANCHIOSTEGI.



O. bicaudatus
 O. quadricornis
 O. cornutus
 O. ...
 O. ...

1 O. bicaudatus
 2 O. quadricornis
 3 O. quadricornis
 4 O. quadricornis
 5 O. quadricornis
 6 O. cornutus



GENUS TETRODON

G. DIODON

- | | | | | | |
|-----------------------|----------------------|--------------------|------------------------|-------------------|-------------------------|
| 1. <i>T. hispidus</i> | 2. <i>Cocillanus</i> | 3. <i>lineatus</i> | 4. <i>laeocephalus</i> | 5. <i>Walleri</i> | 6. <i>Dischidanthus</i> |
| HISPID T. | OCCELLATED T. | LINEATED T. | HARE T. | FORCYPINE D. | ROUND D. |

Order Branchiostegi.

GENUS *SINGNATHUS* G. *PEGASUS* G. *CENTRISCUS*

Pipe-Fish

Pegasus

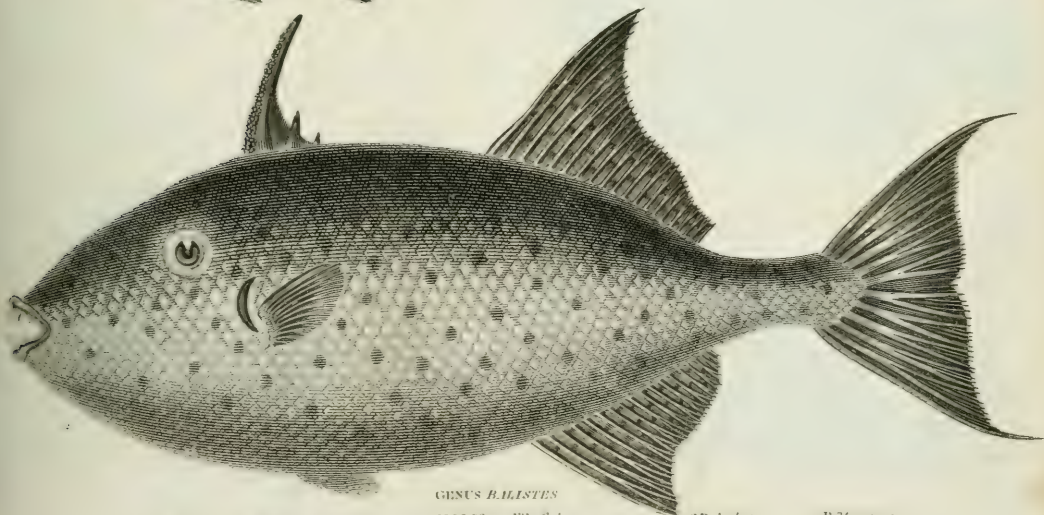
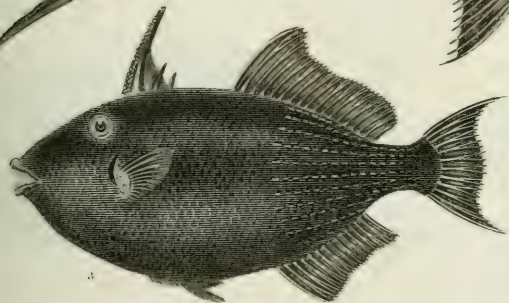
Centiscus



1. *S. foliatus* FOLIATED P.F. 2. *S. acis* GREAT P.F. 3. *S. hipposampus* SEA HORSE P.F. 4. *D. Draco* DRAGON P. 5. *E. natans* SWIMMING P. 6. *C. scutatus* MAILED C. * *magnirostris* UNDER CURTAIN

Published as the 1st division April 1. 1845, by Longman Hurst, Roe & Co. Paternoster Row

ORDER BRANCHIOSTEGI



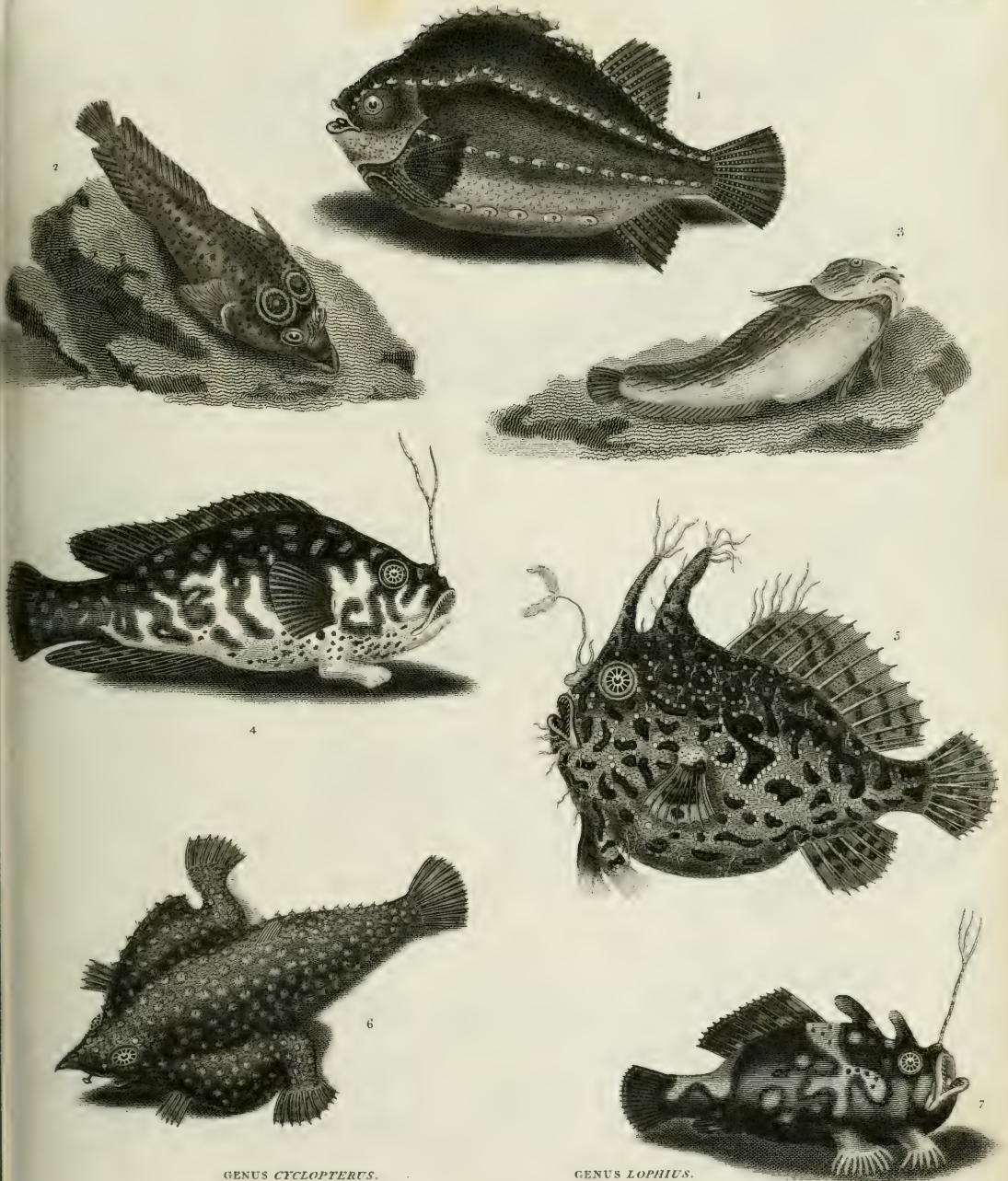
1. *B. Vetulus*
OLD WIFE.

2. *B. Maculatus*
SPOTTED OW.

GENUS BALISTES
(Old Wife or File fish)

3. *B. Leucatus*
ACULEATED OW.

4. *B. Monoceros*
ONE HORNE OW.



GENUS *CYCLOPTERUS*.
(Sucker)

1. *C. Lumpus* 2. *C. Ocellatus*. 3. *C. Lineatus*. 4. *L. Marmorata*. 5. *L. Histrio*. 6. *L. Rostratus*. 7. *L. Pictus*.

- LUMP S. OCELLATED S. LINEATED S. MARBLED A. HARLEQUIN A. BEAKED A. PAINTED A.

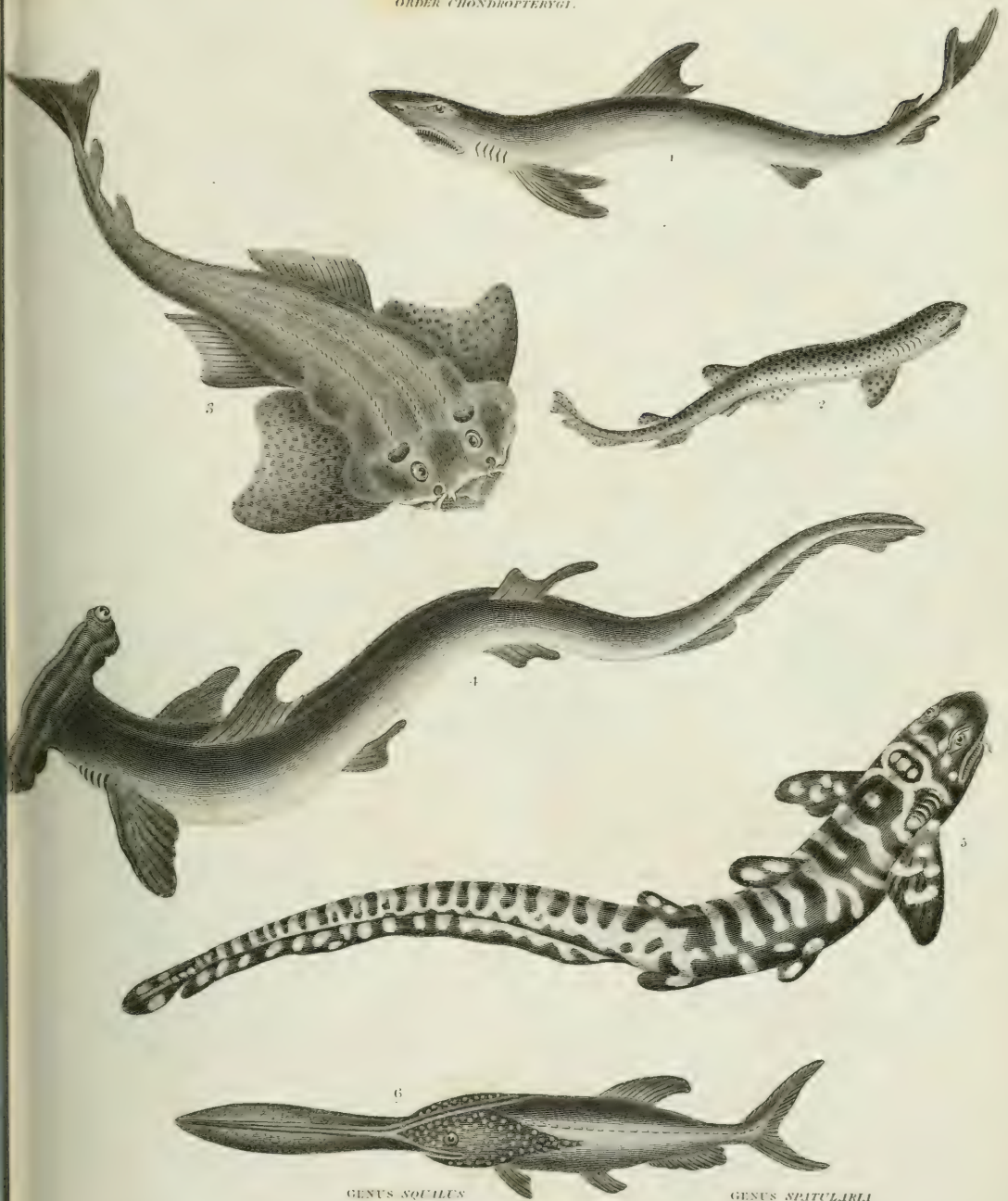
GENUS *LOPHIUS*.
(Angler)

ICHTHYOLOGY.
ORDER CHONDROPHYGHII.
Gen. Acipenser. G. Chimara. G. Pristis.



1. *E. Antiquorum* 2. *C. monstrosa* 3. *A. adurio* 4. *A. ruthenus* 5. *C. Callorhynchus*
 COMMON SAW-FISH SEA MONSTER STURGEON STEELT SOUTHERN C.

Published at the Art directed, Sep. 1833 by Longman, Hurst, Lee & Orme, Paternoster Row.



GENUS *SQUALUS*
(Shark)

GENUS *SPATULARIA*

1. *Glaucus*

2. *Catulus*

3. *Squatina*

4. *Zygaena*

5. *Zebra*

6. *Sp. reticulata*

BLUE S.

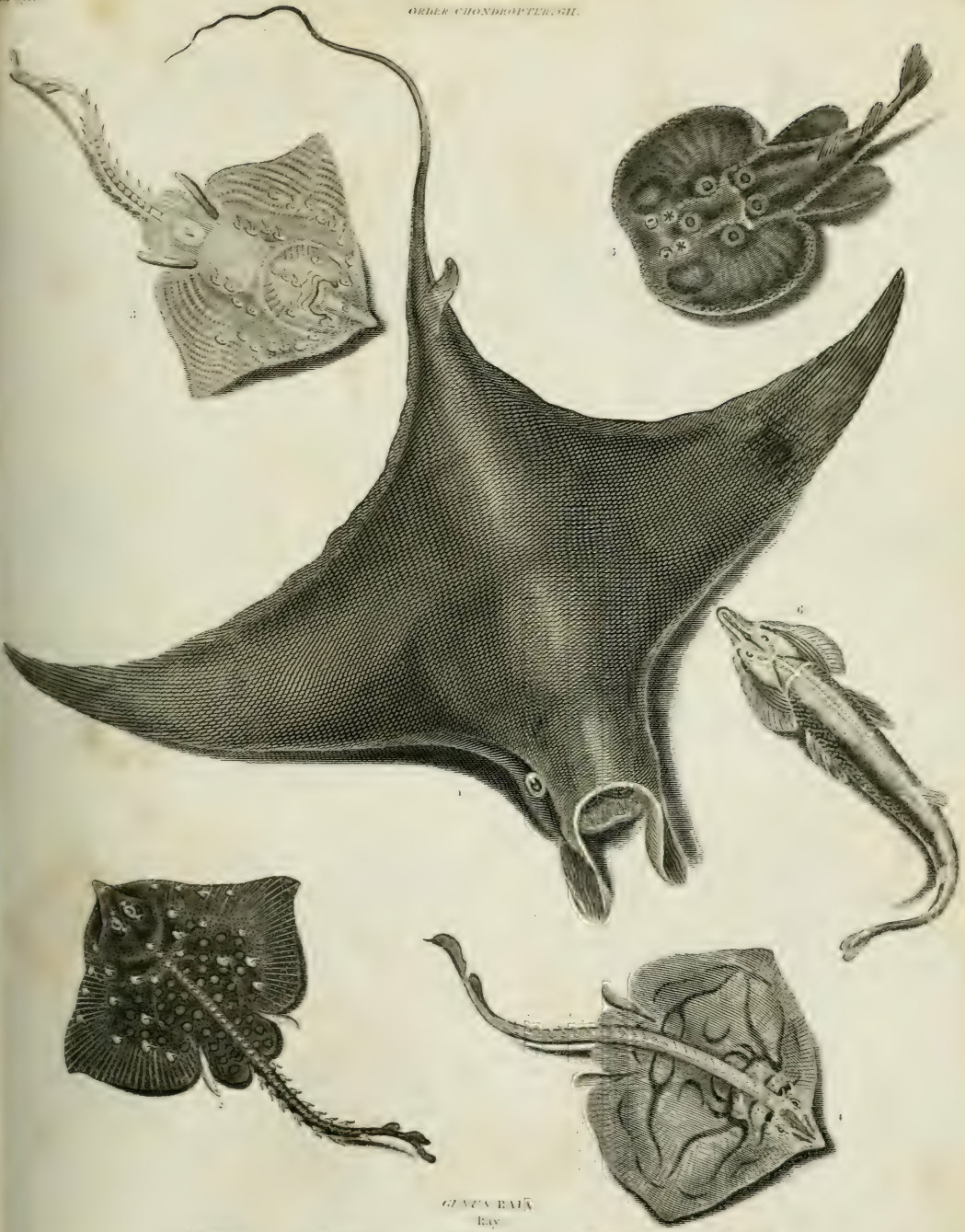
LESSER SPOTTED DOG FISH.

ANGEL S.

HAMMERHEADED S.

ZEBRA S.

RETICULATED SP.



Giant Ray
Ray

1. *R. diabolus*
DABON R.

2. *R. ad. st.*
THORNBACK

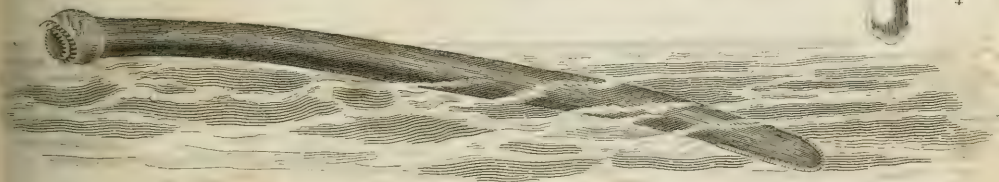
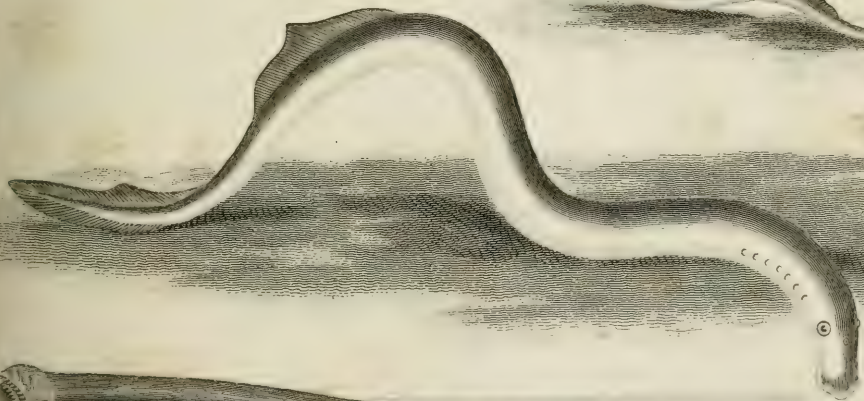
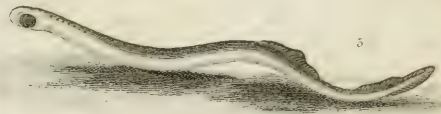
3. *R. radiatus*
R.

4. *R. propinqua*
R.

5. *R. chimaera*
LONG NOSED R.

Published by...

ICHTHYOLOGY.
ORDER CHONDROPTERYGII



G. GASTROBLINCHUS GENUS PETROMIZON
1 G. coecus - 2 G. Dombeyi - 3 F. marinus - 4 F. fluviatilis - 5 F. fluviatilis Jun?
Hag Fish Dombey's HF. Marine Lamprey River Lamprey under surface

Milner sculp

Published as the Art Director, Nov. 12th, by Leitchman Horst, Dea Crane & Deacon, Lithographers, New York



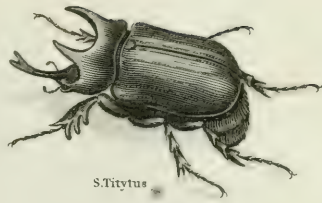
ENTOMOLOGY

Order Coleoptera.

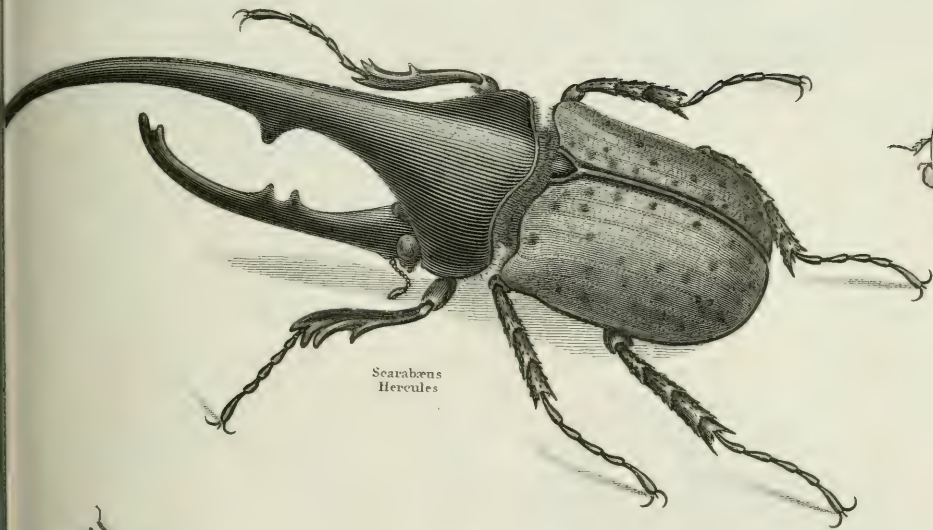
GENUS SCARABÆUS.



S. Chorinæus



S. Titytus



Scarabæus
Hercules



S. Carnifex
major



S. Carnifex
minor



S. Molossus



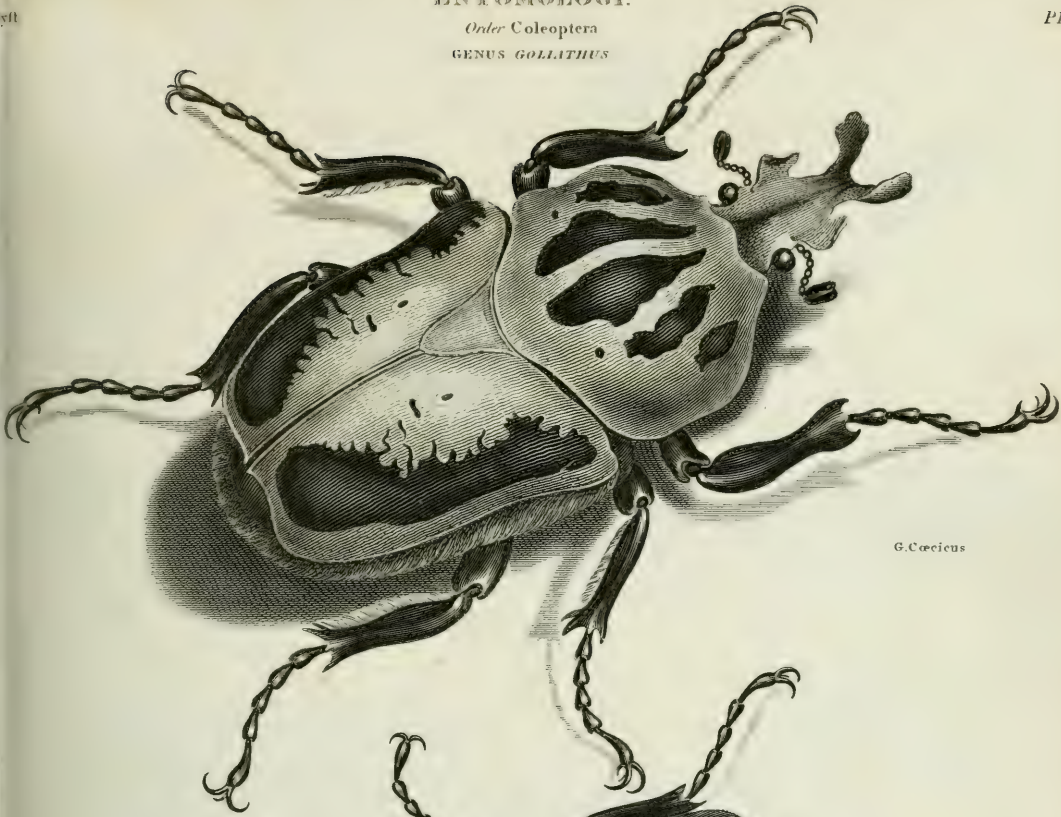
S. Sacer

ENTOMOLOGY.

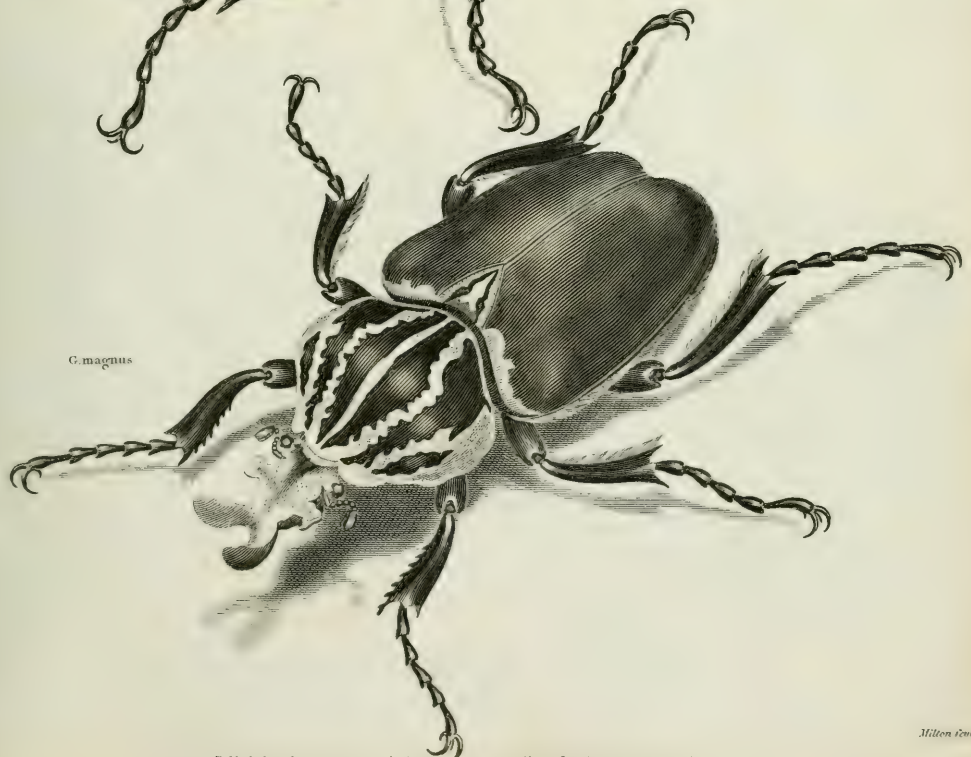
Order Coleoptera

GENUS GOLLITHUS

PLATE



G. Cœcius



G. magnus



- | | |
|------------------------------|-----------------------------|
| 1 <i>L. cervinus</i> | 7 <i>D. picipes</i> |
| 2 <i>L. inermis</i> | 8 <i>S. hemorrhoidalis</i> |
| 3 <i>D. viginii guttatus</i> | 9 <i>S. rufipes</i> |
| 4 <i>D. sexdentatus</i> | 10 <i>S. quadri guttata</i> |
| 5 <i>D. brachypterus</i> | 11 <i>S. marginalis</i> |
| 6 <i>D. pedicularius</i> | * <i>marginatus</i> |

Order Coleoptera.



12. *B. pubescens*

1. *B. polegraphus* - 2. *P. typographus* - 3. *B. piniperda* - 4. *P. scotiae* - 5. *P. imperialis* - 6. *P. sex punctatus* - 7. *P. fassellatus* - 8. *P. faccinicornis*.

9. *H. unicolor* - 10. *H. planus* - 11. *G. natator* - * magnified - † under surface.

Order Coleoptera.

NB. Cistela is a Fabrician genus & answers to the Cryptoccephalus of Linnaeus.
GENUS BYRRHUS. G. ANTHREXUS. G. CISTELA. G. SILPHA. G. MELYSIS



- 1 B. pallida
- 2 A. schrophulariae
- 3 C. pallida
- 4 C. cheta

- 5 C. lepuroides
- 6 S. germanica
- 7 S. vespillo
- 8 S. thoracica

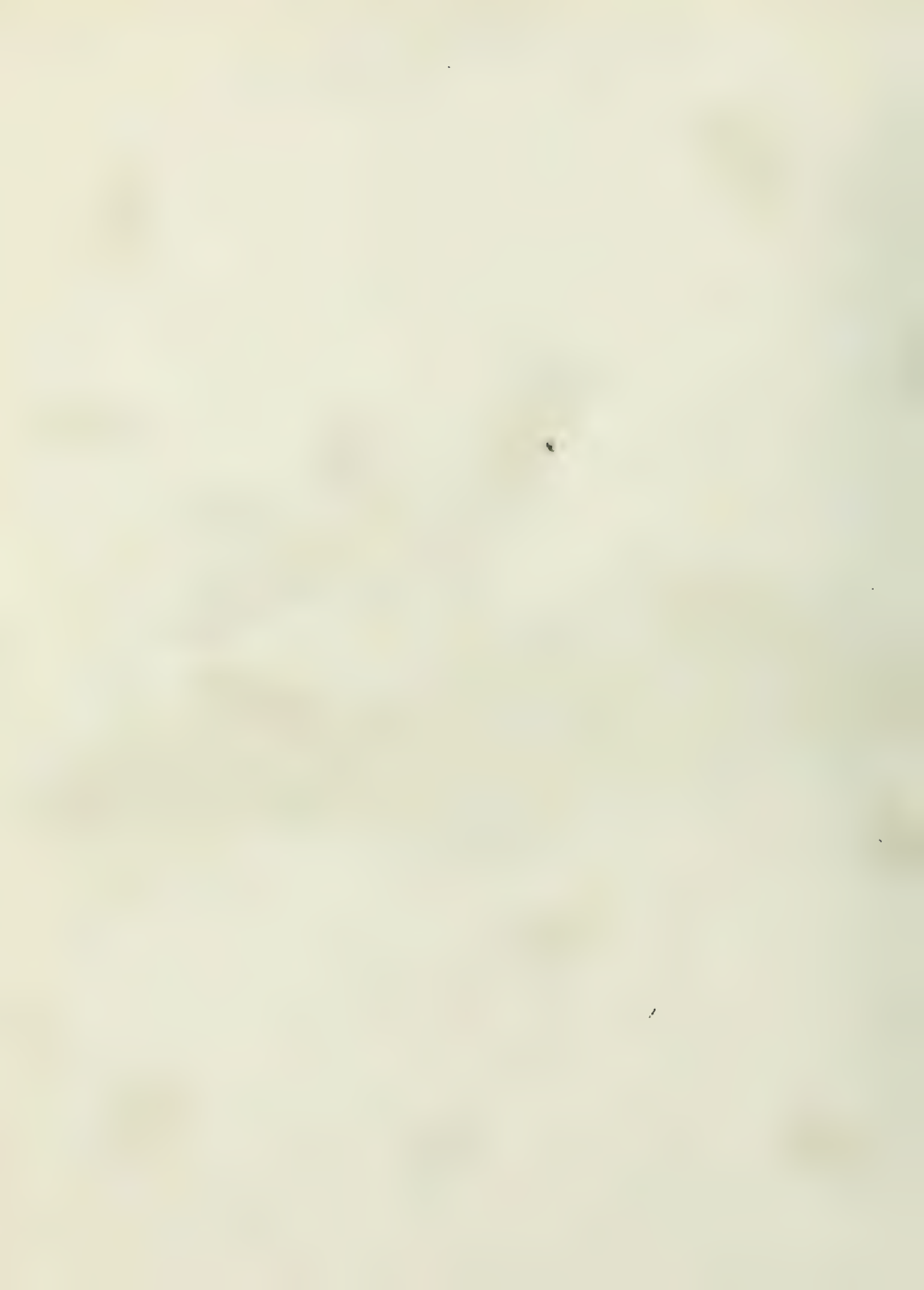


- 9 S. humator
- 10 S. obscura
- 11 S. quadrimaculata



- 12 S. sinuata
- 13 M. viridis
- 14 M. magnifici





ENTOMOLOGY.

Order Coleoptera.

PLATE IX

GENUS OPITRUM. G. TRITOMI. G. TETRITOMI. G. CAISSIDI.



1. O. sabulosum. 2. Tri. rufipes. 3. Tri. pilosa. 4. Tet. cinnamomeum. 5. Tet. fungorum. 6. Tet. ancora. 7. C. grassea. 8. C. lateralis. 9. C. cruentata. 10. C. maculata.

* magnified † under surface

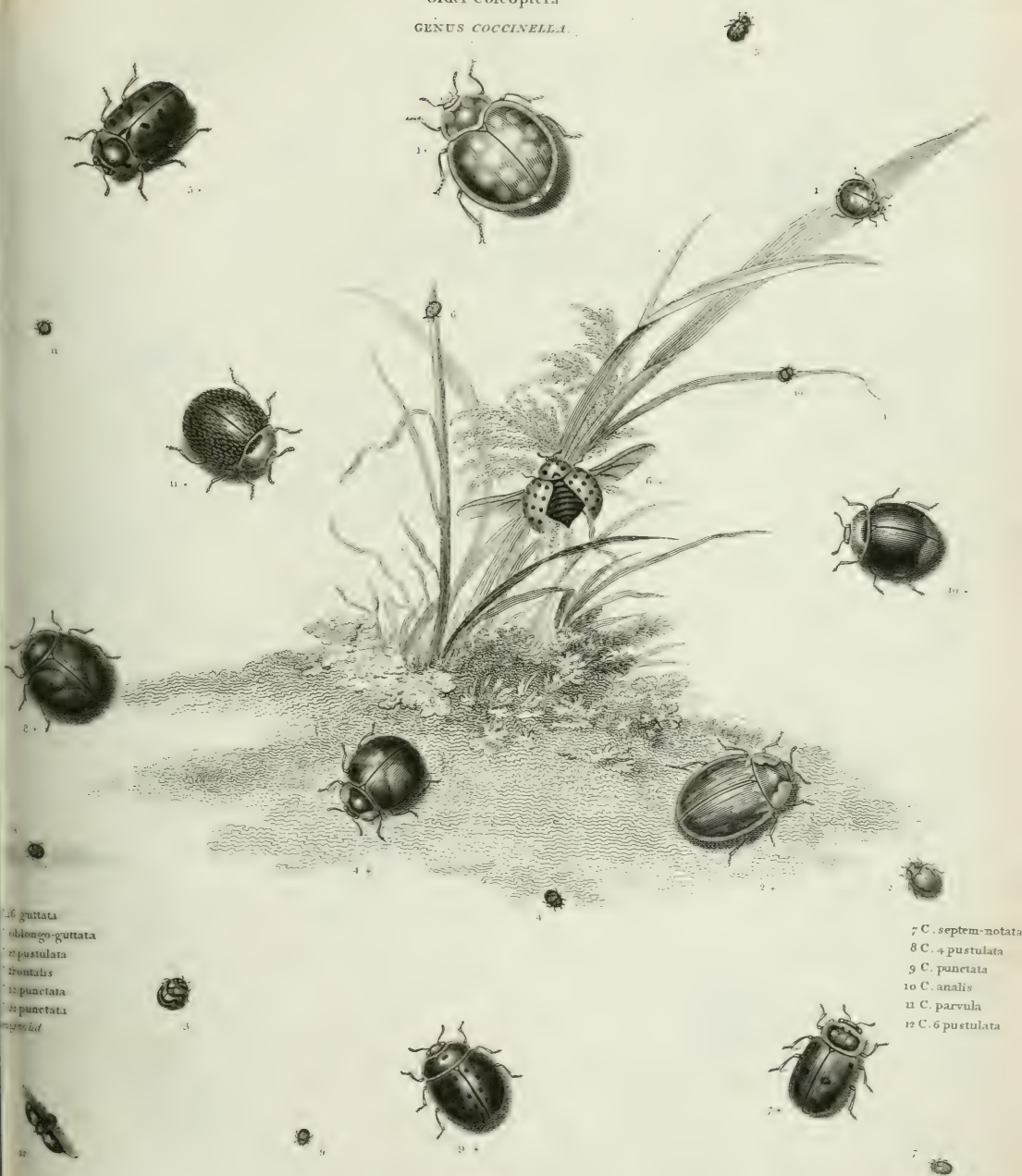
Published as the Act directs. Sep. 1. 1817. by Longman, Hurst, Roe, Orme & Bowen, Printers in Town.

Willet sculp.

ENTOMOLOGY.

Order Coleoptera

GENUS COCCINELLA.



- 1. *C. guttata*
- 2. *C. oblongo-guttata*
- 3. *C. pustulata*
- 4. *C. frontalis*
- 5. *C. punctata*
- 6. *C. punctata*
- 7. *C. punctata*

- 7. *C. septem-notata*
- 8. *C. 4-pustulata*
- 9. *C. punctata*
- 10. *C. analis*
- 11. *C. parvula*
- 12. *C. 6-pustulata*



1. *C. unimaculata*
 2. *C. unimaculata*
 3. *C. unimaculata*
 4. *C. unimaculata*
 5. *C. unimaculata*
 6. *C. unimaculata*
 7. *C. unimaculata*
 8. *C. unimaculata*
 9. *C. unimaculata*
 10. *C. unimaculata*
 11. *C. unimaculata*
 12. *C. unimaculata*
 13. *C. unimaculata*

8 *C. boleti*
 9 *C. 14 guttata*
 10 *C. marginalis*
 11 *C. marginata*
 12 *C. marginella*
 13 *C. hannoveriana*
 * *maquineti*



GENUS *CRYPTOCEPHALUS* _G. *CRIOCERIS* _G. *HISPA* _G. *BRUCHUS* _G. *PAUSUS* _G.



13 cordiger
12 variabilis
11 distinguendus

12 P. fichteli
13 P. pectinicornis
* magnified

4 *Cry. lobatus*
5 *Cry. obscurus*
6 *Cri. campestris*
7 *Cri. punctatus*

8 *H. mutica*
9 *B. bipunctatus*
10 *P. denticornis*
11 *P. thoracicus*



ENTOMOLOGY.

GENUS CURCULIO.

PLATE XI.

Order Coleoptera.



- 1 *C. bimaculatus*
- 2 *C. palmarum*
- 3 *C. elegans*
- 4 *C. annulatus*
- 5 *C. imperialis*
- 6 *C. emeritus*
- 7 *C. hemipterus*
- 8 *C. brachypterus*
nigro spinosus

- 9 *C. assimilis*
- 10 *C. rhinomacer*
anchoragus
- 11 *C. regalis*
- 12 *C. bilineatus*
- 13 *C. viridis*
- 14 *C. bacchus*
- 15 *C. betulæ*
+ marginatus

ENTOMOLOGY.

Order Coleoptera.

GENUS CERAMBYX - G. PRIONUS - G. LAMIA - G. CLYTUS

G. SAPERDA - G. RHILGIUM

S. collaris

C. imperialis

L. quadrimaculata

P. longimanus

R. bifasciatum

C. thoracicus

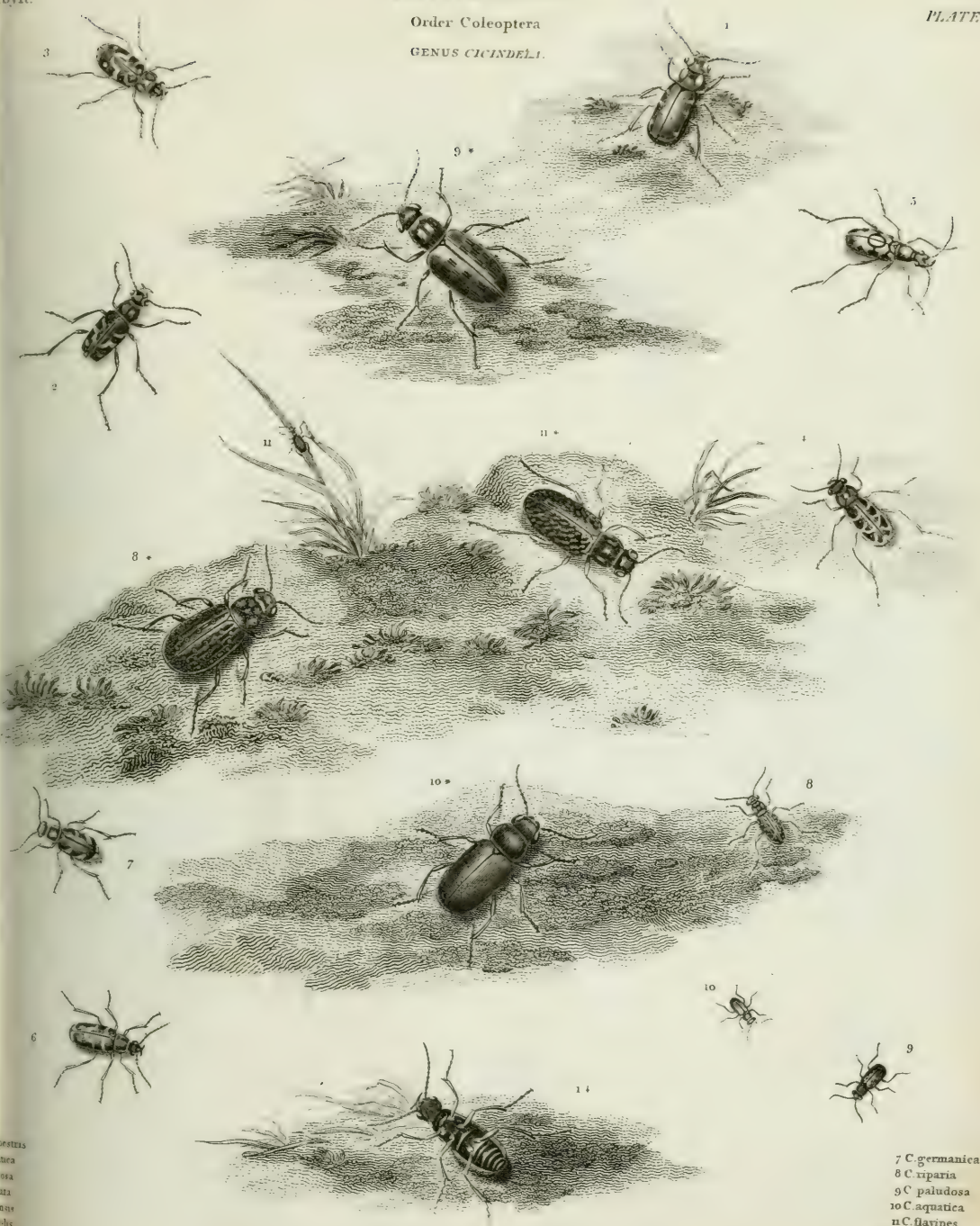
P. unidentatus

S. nigro-virens

ENTOMOLOGY.

Order Coleoptera

GENUS CICINDELA.



- 7 C. germanica
- 8 C. riparia
- 9 C. paludosa
- 10 C. aquatica
- 11 C. flavipes

* magnified 4 under surface

pestes
 atca
 1814
 1811
 1815
 1815

ENTOMOLOGY.

Order Coleoptera.

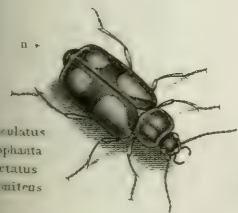
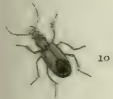
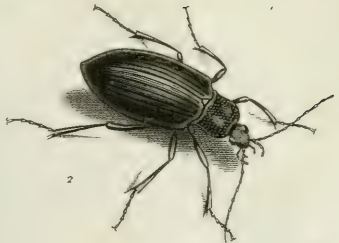
GENUS *DYTISCUS*



- 1 *D. piceus*
- 2 *D. latissimus*
- 3 *D. marginatus*
- 4 *D. cinereus*
- 5 *D. caraboides*

- 6 *D. sulcatus*
- 7 *D. minutus*
- 8 *D. bipustulatus*
- 9 *D. uliginosus*
- 10 *under surdus*





1. maculatus
2. cyclophanta
3. punctatus
4. arenarius

5 C arenarius
6 C granulatus

+ magnificus

7 C thoracicus
8 C maculatus

9 C germanicus
10 C prasinus
11 C crux minor
12 C semipunctatus

ENTOMOLOGY.

Order Coleoptera.

GENUS TENEBRIO - G. PINELLA - G. HELOS.



1 T. gigas
 2 T. femoratus
 3 T. molitor
 4 T. curtipis

5 T. culinaris
 6 T. ferrugineus
 7 P. rages
 8 P. septidum

9 P. aragosita
 10 H. lauripes
 11 H. fasciata
 12 H. fusca
 * maculifol



Ann. Syst.

Order Coleoptera.



1. vesicatoria
 2. rubia
 3. proscaribans
 4. variegatus
 5. bicolor
 6. flava
 7. doxalis
 8. frontalis

9. My. cichorei var.
 10. My. cichorei var.
 11. My. cichorei var.
 12. S. hirtus
 13. F. gigantea
 14. F. gigantea
 15. L. schafferi
 + magnificus

Lin. Syst.

GENUS 12 *Hispa*



G. 13 *Bruchus*



G. 14 *Cavellio*



G. 15 *Atelabus*



G. 16 *Cerambyx*



G. 18 *Aecydalis*



G. 19 *Lampyrus*



G. 17 *Leptura*



G. 21 *Elater*



G. 20 *Cantharis*



Order Hemiptera.

Genus MANTIS.



Mantis Bispinosa.



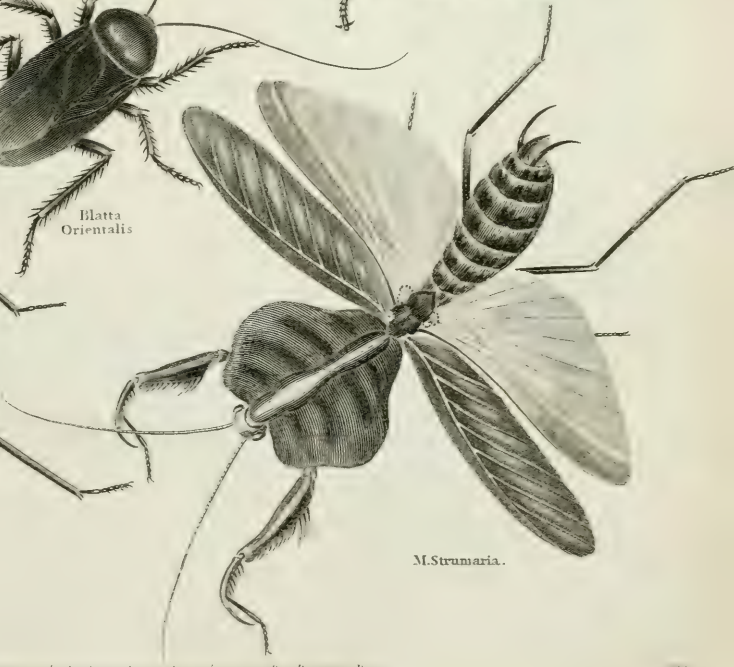
M. Precaria.



Blatta Orientalis



M. Gongylodes.



M. Strumaria.

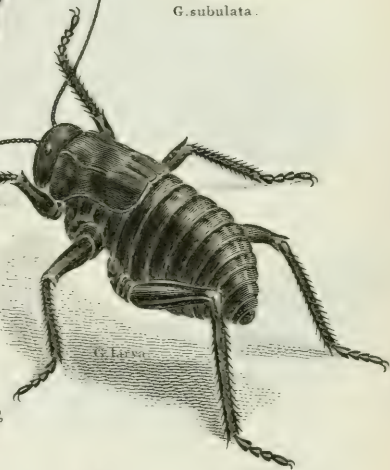
Order Hemiptera.

Genus GRYLLES.

Gryllus Dux.



G. subulata.



G. locustae.



G pupa



G.Gryllotalpa.



G. viridisimus minor.



G nasutus



ENTOMOLOGY.

Order Hemiptera.
Gen. FULGORA, G. CICADA
G. NOTONECTA



C. haematodes

F. lanternaria

C. spinosa

C. taenus

C. stridula

C. tibicen

Notonecta
Glauca

F. candelaria

C. phalaenoides

C. sanguinolenta

F. lanternaria

ENTOMOLOGY

Order Hemiptera.

GENUS CHERMES. G. CIMEX. G. COCCUS. G. NEBA. G. THIRPS. G. APIHIS



Order Lepidoptera.

Genus PAPILIO.



Eq. Troes 1.



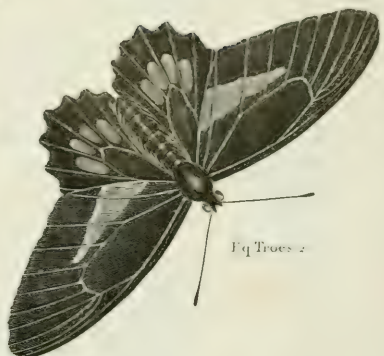
Eq. Achiv 1.



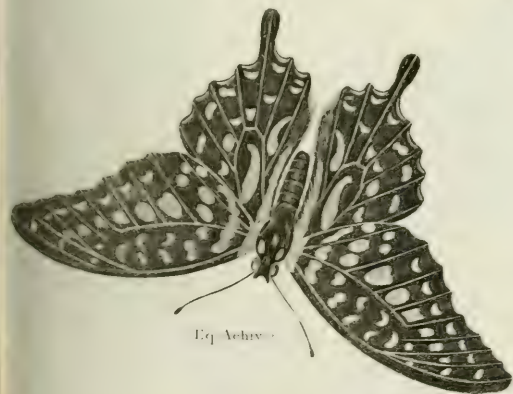
Eq. Achiv 1.



Eq. Achiv 5.



Eq. Troes 2.



Eq. Achiv 3.



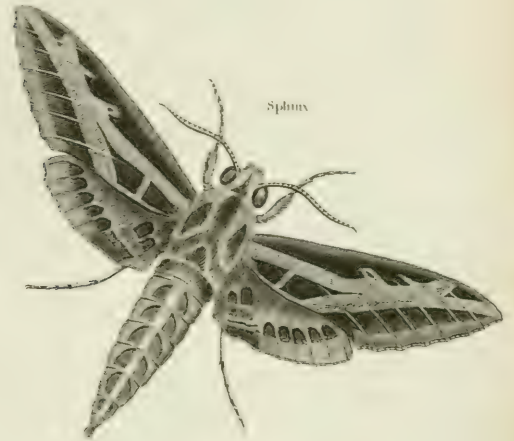
Eq. Achiv 3.

Order Lepidoptera.

Genus SPHILIX.



Sesia



Sphinx



Sphinx



Sesia



Zygæna



Sphinx



Sesia



Zygæna

B. Lacoona



B. Paronia



Bombyx Tau



B. Atlas

B. Luna



ENTOMOLOGY.
Order Lepidoptera Genus Bombyx.



B. quercifolia.



B. versicolora



Bombyx vinula.



B. Saturnus.



B. Potatoria



B. Potatoria

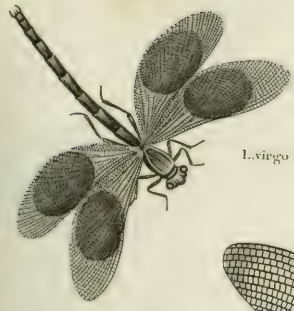


B. Hebe.

ENTOMOLOGY.

ORDER NEUROPTERA.

GENUS *Libellula*. - *Ephemera*. - *Phryganea*.



L. virgo



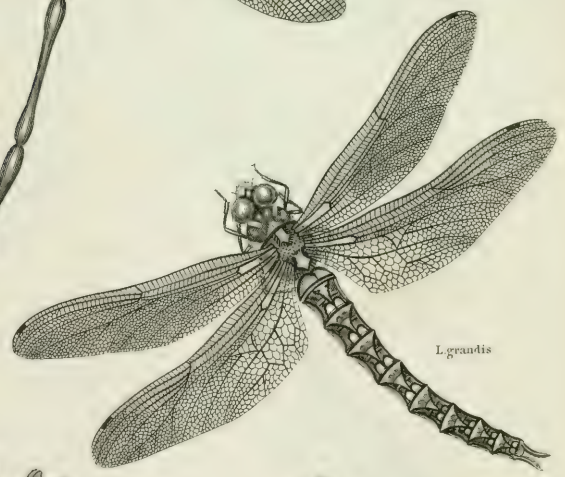
L. clavata



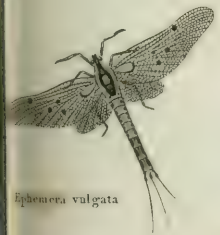
Libellula linearis



L. indica



L. grandis



Ephemera vulgata



L. puella



Phryganea varia

ENTOMOLOGY.

ORDER NEUROPTERA.

GENUS Ascalphus - Hemerobius - Myrmeleon - Panorpa - Raphidia.

PLATE
of Order N.



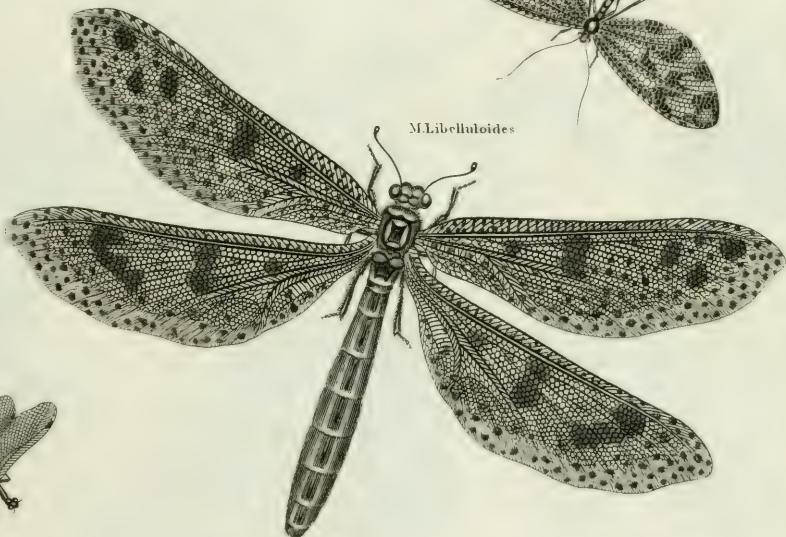
A. Americanus



P. Communis



P. Coa



M. Libelluloides



R. Ophiopsis

R. Ophiopsis



H. Chrysops



P. Communis



A. Barbarus

Genus CYNIPS. G. TENTHredo.

G. SIREX

G. ICHNEUMON. G. SPHEX



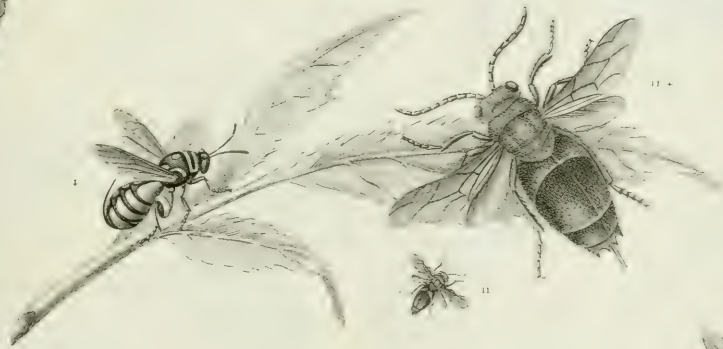
1. *obovatus folii*
 2. *maculata*
 3. *flavicornis*
 4. *fulvicornis*
 5. *agris*

6. *S. juvenens*
 7. *S. Jobati*
 8. *I. flavicornis*
 9. *I. persusosus*
 + *marginata*

ENTOMOLOGY.

Order Hymenoptera.

GENUS AMMOPHILA - G. SCOLIA - G. THYXUS - G. LEUCOPSIS - G. TIPHI
G. CHALCIS - G. CHRYSIS.



Amphibia
Arthropods
Chelicerata
Crustacea
Insecta
Mollusca
Nematoda
Platyhelminthes
Protozoa
Reptilia
Squamata
Vertebrata

8 *Chr. splendida*
9 *Chr. amethystina*
10 *Chr. fasciata*
11 *Chr. ignita*
* *magnifica*

6 *Tip. villosa*
7 *Cha. sispes*

Order Hymenoptera.



1 *Vespa*
 2 *V. bengalensis*
 3 *V. bilamata*
 4 *V. americana form.*
 5 *V. bengalensis*
 6 *V. rubra mut.*

ENTOMOLOGY.
Order Diptera.

GENUS GESTRUS. G. TIPULA. G. DIOPSIS.



1. *Gestrus*
 2. *Gestrus*
 3. *Gestrus*
 4. *Gestrus*
 5. *Gestrus*
 6. *Gestrus*
 7. *Gestrus*
 8. *Gestrus*
 9. *Gestrus*
 10. *Gestrus*
 11. *Gestrus*
 12. *Gestrus*
 13. *Gestrus*
 14. *Gestrus*
 15. *Gestrus*
 16. *Gestrus*
 17. *Gestrus*

1. *Tirocata*
 2. *Impunctata*
 3. *Aurata*
 4. *Plumosa*
 5. *Pectinicornis*
 6. *Diopsis*
 7. *Diopsis*
 8. *Diopsis*
 9. *Diopsis*
 10. *Diopsis*
 11. *Diopsis*
 12. *Diopsis*
 13. *Diopsis*
 14. *Diopsis*
 15. *Diopsis*
 16. *Diopsis*
 17. *Diopsis*

M.Noctiluca



M.bilineata



M.Sexbaliana



M.Nigrans



M.hottentotta



M.Tenax
Syrphus tenax F.



M.bifasciata



M.Ceria Clavicornis F.



M.Fasciata



M.Florea



M.Analis Bibio F.



M.Vespiformis



M.lurida



M.Cupraria



M.grossa



M.Onopordini



M.morio



Chamaedon
Stratiomyx F.



M.Pendula



M.Tenax
Syrphus tenax F.



M.Triangulara



M.Nemotelus Uliginosus



M.Solstitialis



M.Scolopacea
Thagis Scolopacea F.



M.Stellata

Magnificat.
Fernald.
Fabricius.



1 *T. bovinus*
 2 *T. tropicus*
 3 *T. bromius*
 4 *T. pluvialis*
 5 *T. rusticus*

6 *T. caecutiens*
 7 *C. pipiens*

8 *E. forcipata*
 9 *E. borealis*

10 *S. rostrata*
 11 *S. irritans*
 12 *S. calcitrans*
 13 *S. pangens*
 * magnified & female

Order Diptera



Sarcophaga
scutellata
petiolata
teuromis
gibbosus
caudiformis

7 *Bombylius major*
 8 *B. medius*
 9 *Hippobosca equina*
 10 *H. ovina*
 11 *H. avicularia*
 12 *H. hirundinis*
 & *magnifica* & *under curdler*

ENTOMOLOGY.

Order APTERA.

PLATE V
of APTERA

GENUS LEPISMA G. PODURA G. TERMES



L. punctata

L. obscura

P. villosa

L. lineatus

L. polyoda

Thellicosus

Great African White Ant.

1. Labourers - 2. Soldiers - 3. King - 4. Male - 5. Pregnant Female or Queen - 6. Nests.

1 under surface

Published as the Act directs E. & J. 1819 by Longman Hurst, Lesclapart & Brown, Stationers' Hall

Order Aptera

GENUS PEDICULUS - G. PULEX - G. LICARUS - G. FROBIDIUM - G. HYDRACHNA
Louse (Flea)



- 1 P. humanus
HUMAN L.
- 7 P. asini
ASIN L.
- 3 P. cyni
CYN L.
- 17 P. corvi
CORV L.

- 5 P. picre
MAGPIE L.
- 6 P. gruis
CRANE L.

- 7 P. columbe
PIGEON L.

- 8 P. pluvialis
FLOWER L.
- 9 P. apis
BEE L.

- 10 P. irritans
FLEA
- 11 A. edaxius
- 12 F. aquaticum
- 13 F. abstragens
- 14 H. geographica
- 15 H. abstragens
" ragnicola
: remak

ENTOMOLÓGY.

Order APTERA.

PLATE

GENUS TARANTULA, G. PHALANGIUM, G. NYMPHON, G. PYCNOGONUM.

inn. Syst.



T. reniforme

T. caudata

Ph. balnearum

N. grossipes

Ph. cancriforme
natural size

T. reniforme

Ph. cancriforme

Ph. hirsutum

Ph. cornutum

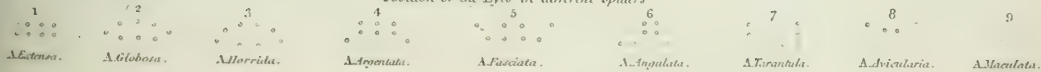
Order Aptera.

GENUS ARANEI

(Spider)



Position of the Eyes in different Spiders



Order APTERA
GENUS SCORPIO.



1. Scorpio afr. 3. S. linearis. 3. S. Europ. rus.

2. *Scorpio* *Surin.* 4. *Scorpio* *Sibirica.*

Engraved from the original drawings by J. G. Cuvier, and colored by J. B. de Meunier, Paris.

CRUSTACEA.

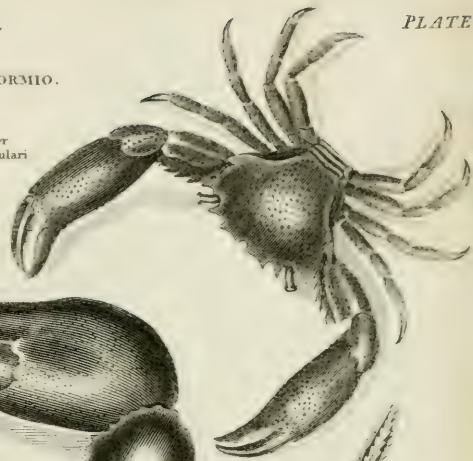
Order *CANCER*

GENUS *DORIPPE* GENUS *DORMIO*.

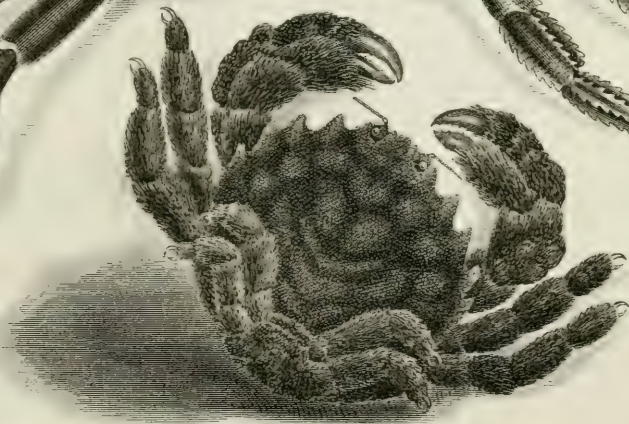


Dorippe facchino

Cancer faculari



Cancer ruficola

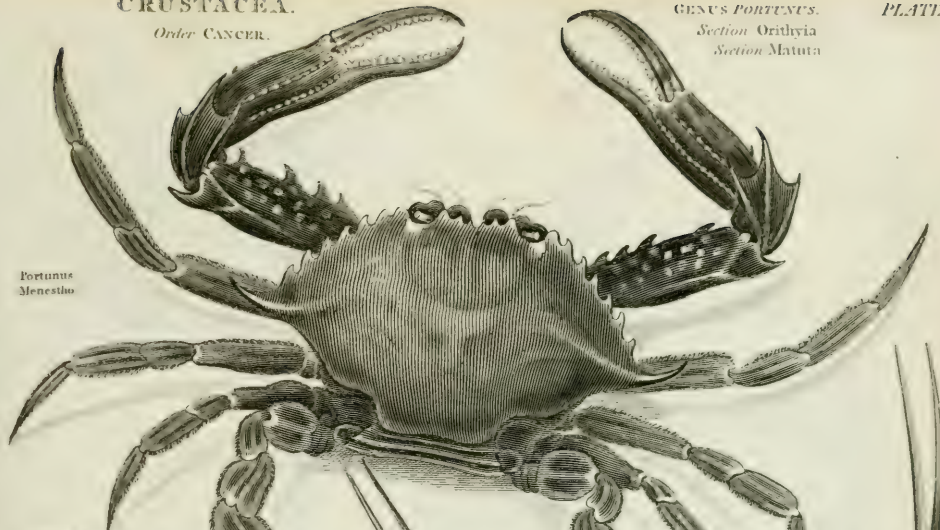


Dormio artificiosa

Order CANCER.

Section Orithya
Section Matuta

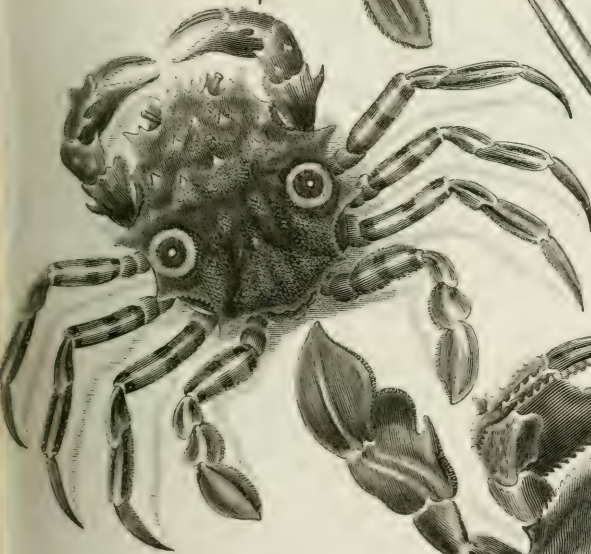
Portunus
Menestho



Portunus
Forecps



Orithya
Mammillars



Matuta
Lunaris



Engraved by J. G. Smith. Published by J. G. Smith, 1825.



C. depressus



C. variegatus



C. perlatus



C. personatus



Genus CANCER.

Entomol. Eur.



- 1 Cancer Ursus minor
- 2 C..... digitalis
- 3 C..... strigatus
- 4 C..... narval
- 5 C..... dubius
- 6 C..... linearis
- 7 C..... fluvialis

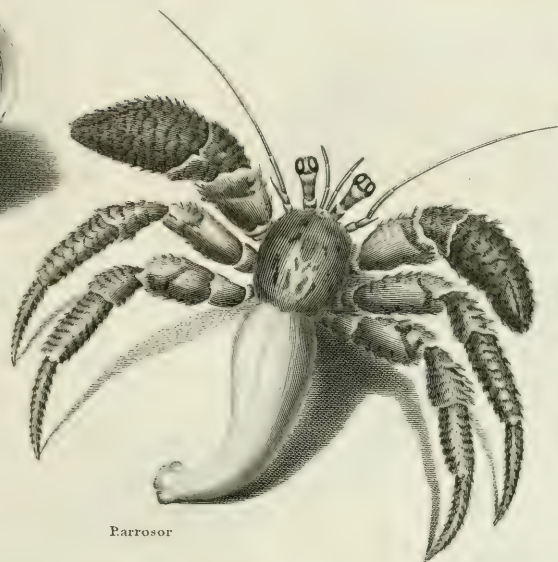
CRUSTACEA.

Order CANCER.

GENUS PAGURUS - G. GAMMARUS - G. GAMMARELLUS.



P. excavatus



Parrosor



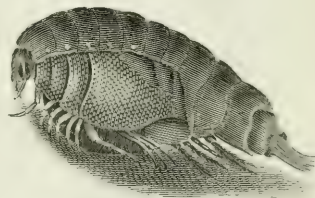
Peanaticulatus



G^l mantis



G^l podurus



G ampulla



G^l paludosus

nut size



G^l spinosus

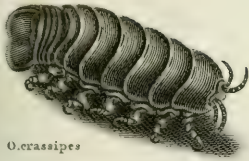


G^l pulex. Haster



G^l linearis

Order *APTERA*



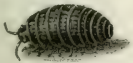
O. crassipes



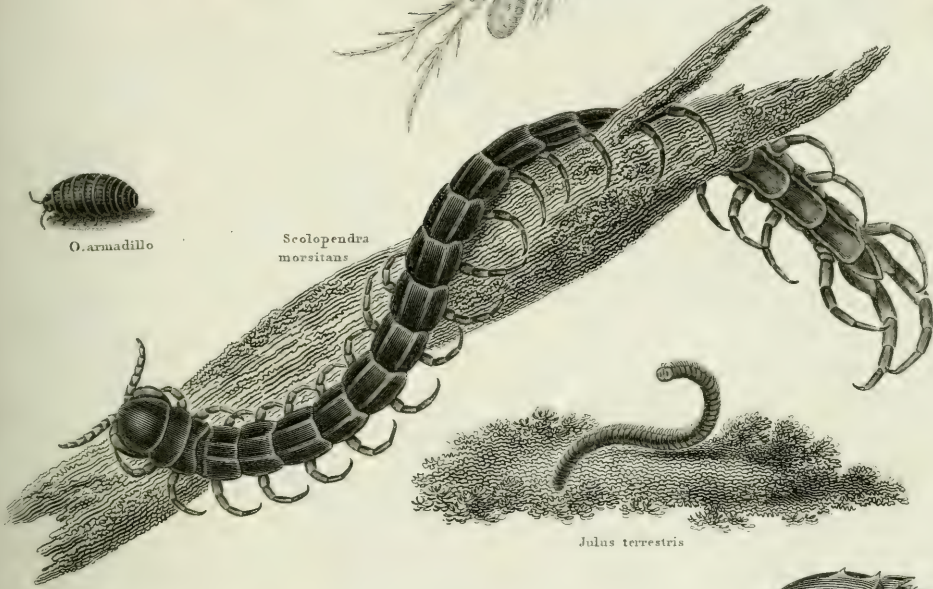
M. quadricornis



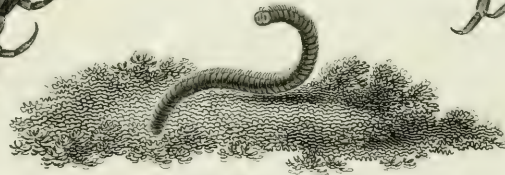
O. oceanicus



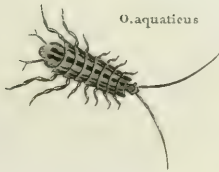
O. armadillo



Scolopendra morsitans



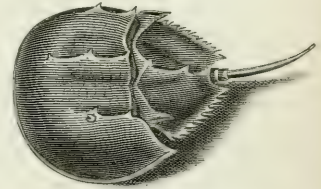
Julus terrestris



O. aquaticus



Oniscus psora



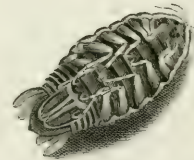
M. polyphemus



Monoculus polyphemus



O. oestrus



O. psora

VERMES.

Order Intestata.

Genus ASCARIS_G.ECHINORHINCHUS_G.FISCIOLOA_G.LINGULATA.

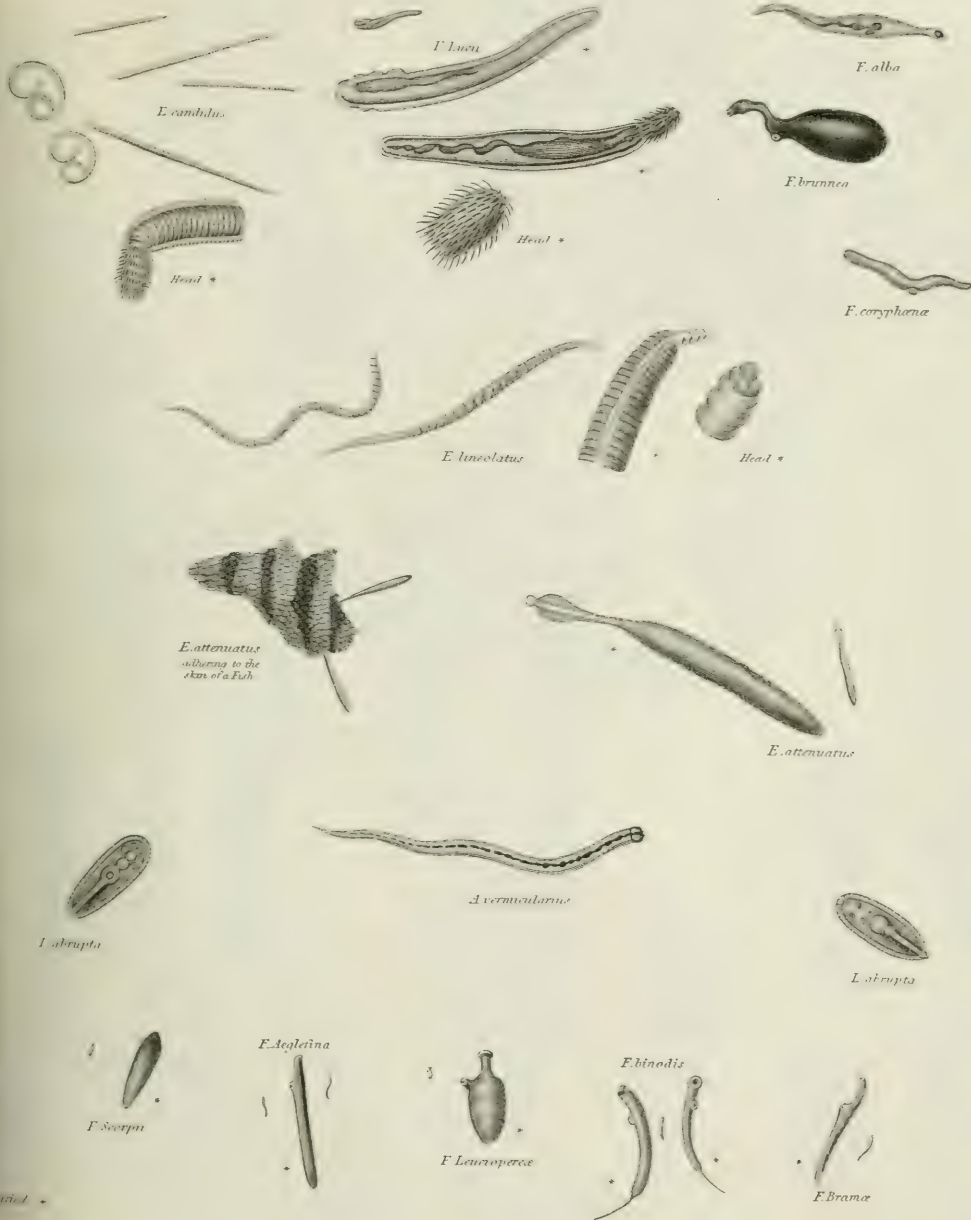


Fig. 1.



G. Planaria.

G. Sipunculus.

G. aquaticus

G. aquaticus

Lum. terrestris

Lum. terrestris var.

Lim. maximus

P. crenata
1, 2, 3, 4, 5

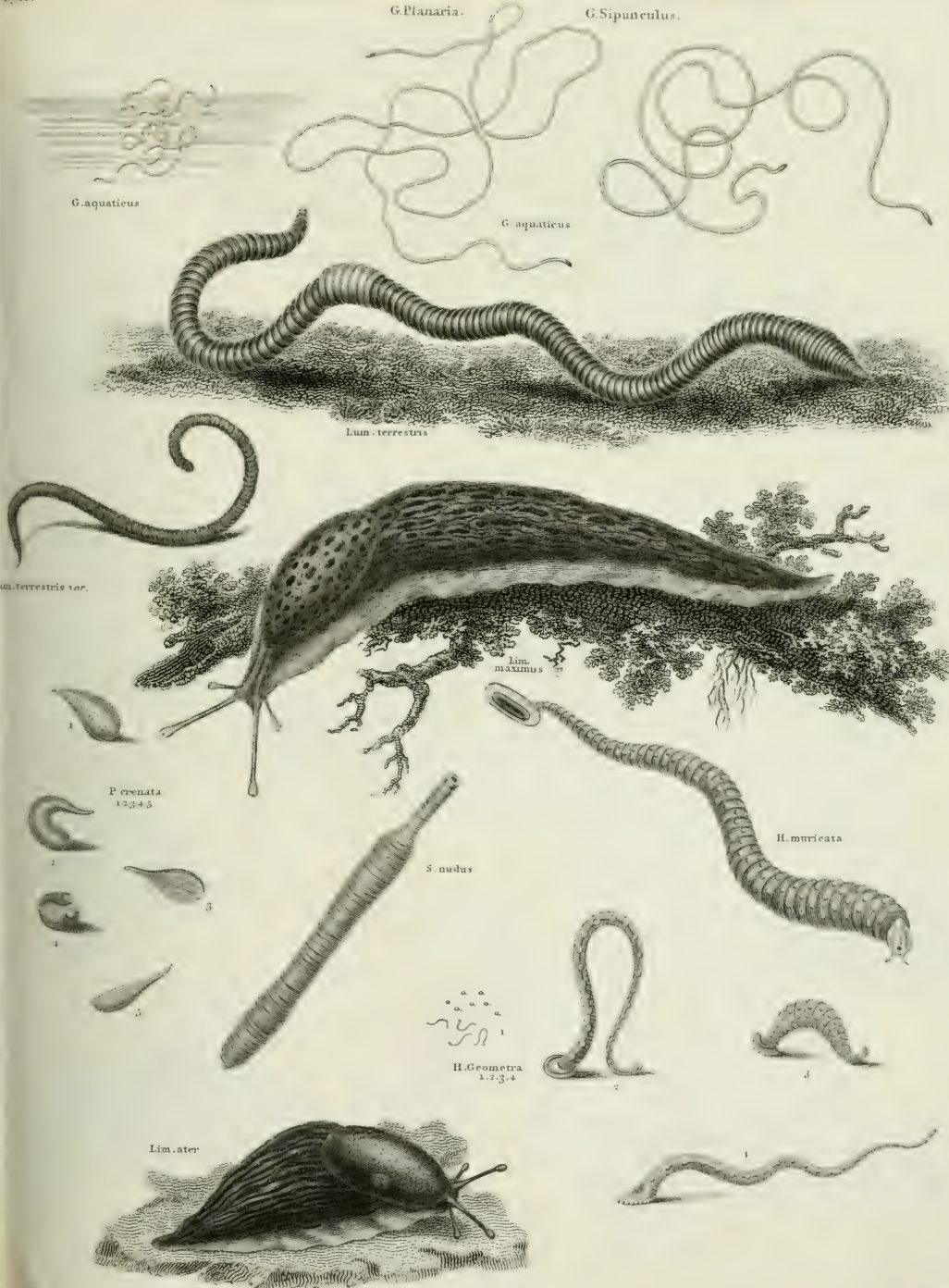
S. nudus

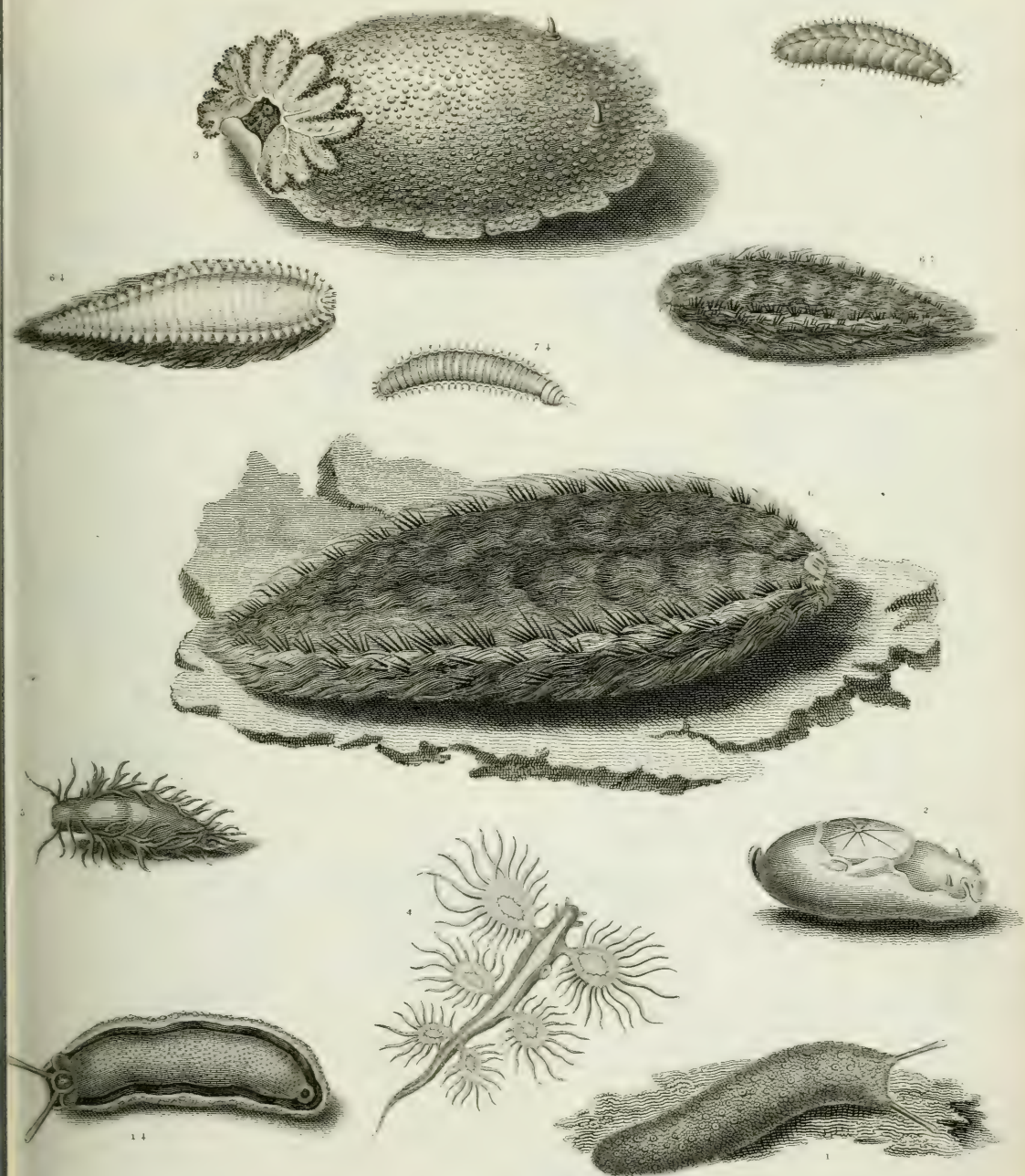
H. muricata

H. Geometra
1, 2, 3, 4

Lim. ater

Villosus



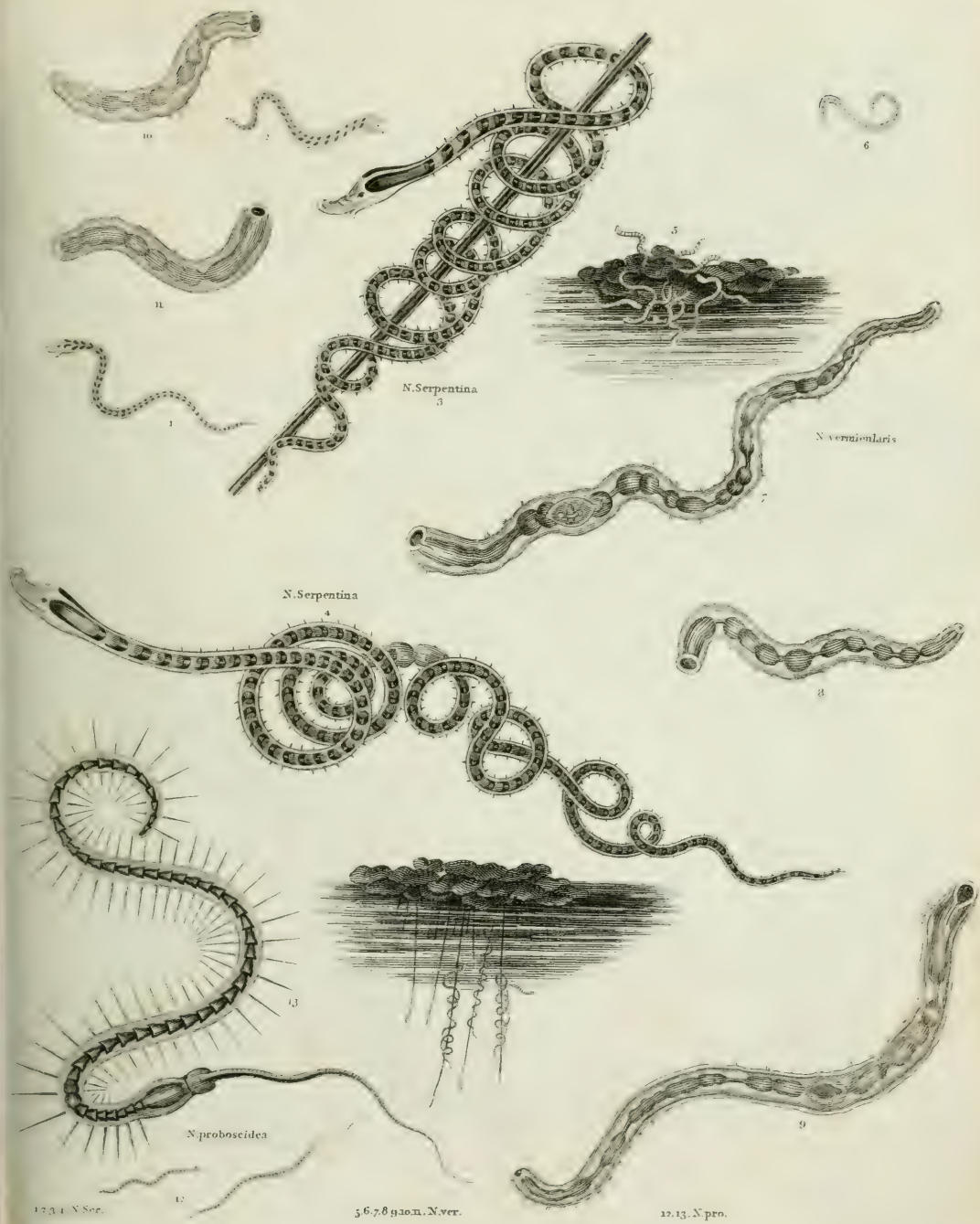


1. Otyphr. 2. L. depilus. 3. Dargo. 4. D. radiata. 5. D. papillosa. 6. A. aculeata. 7. A. squamata

INDLIN O. 2. SEA-MOUSE. 3. SEA LEMON. 4. RADIATED D.

4 under surræc. 1 young.

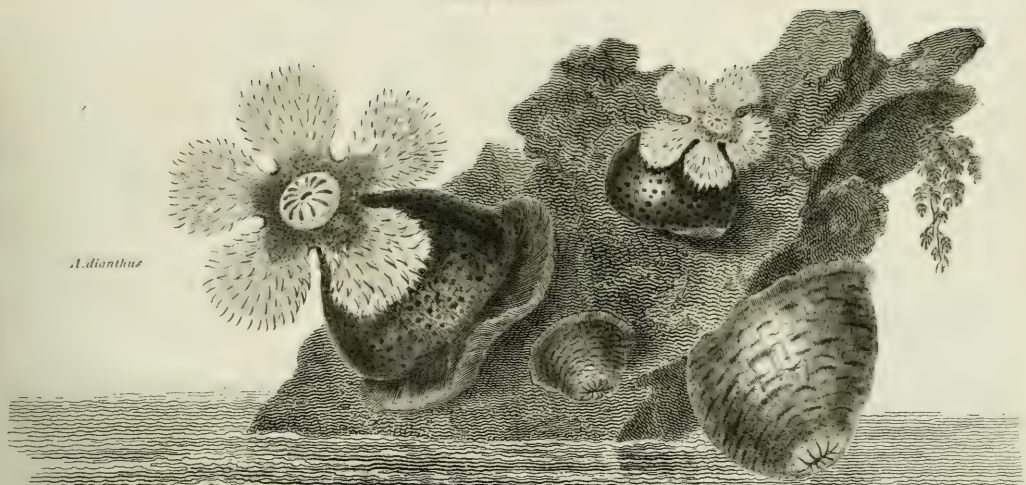
5. PAPILLOUS D. 6. SEA-MOUSE. 7. SCALY SEA-MOUSE



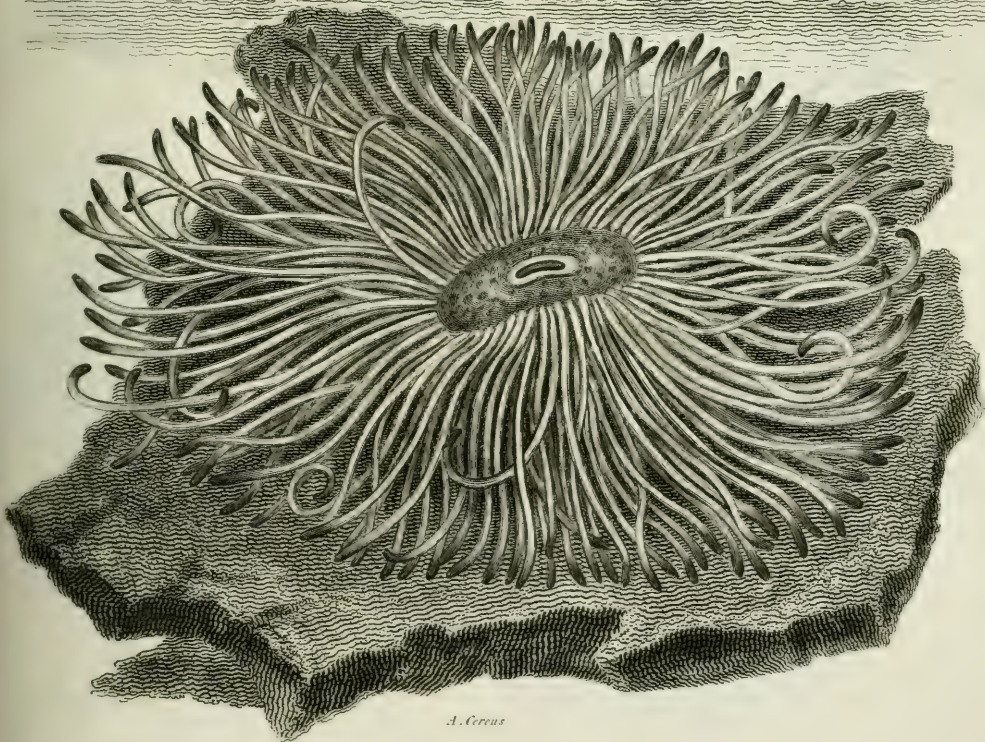
1, 2, 3, 4. N. Ser.

5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100. N. ver.

17, 18. N. pro.



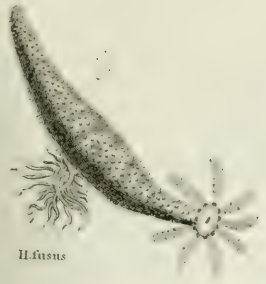
A. dionthus



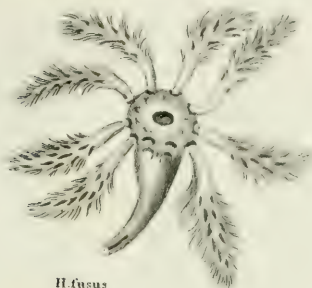
A. Cereus

ZOOLOGY.

Class VERMES - Order MOLLUSCA - GENUS HOLOTHURIA.



H. fusus



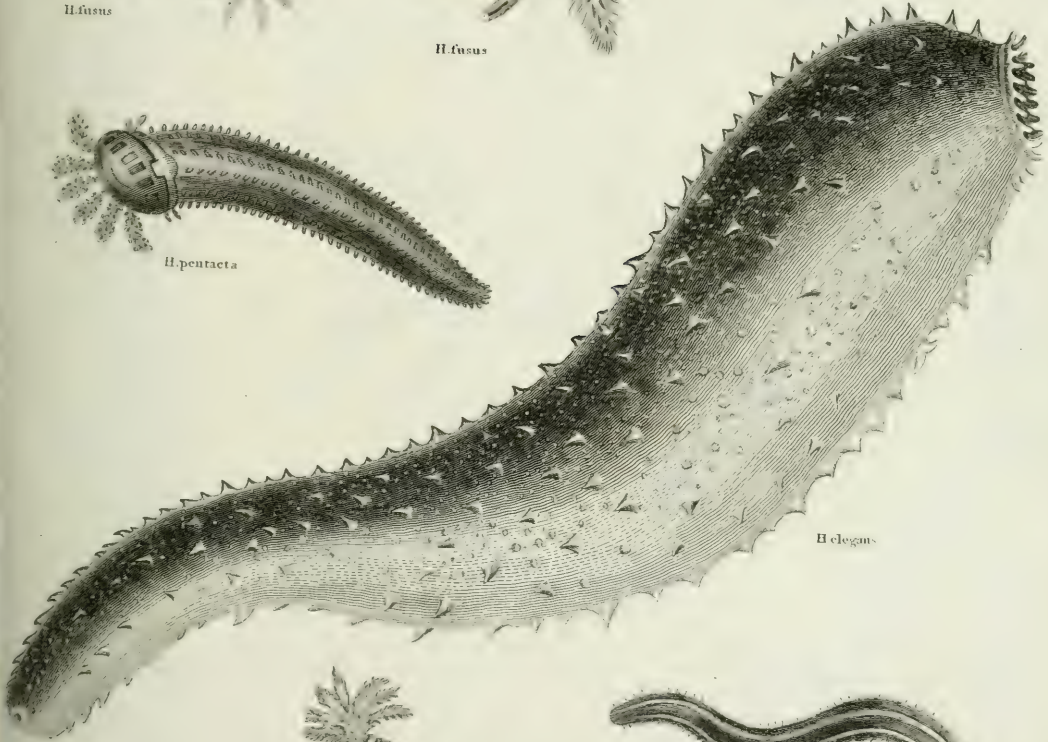
H. fusus



H. penicillus



H. pentacta



H. elegus



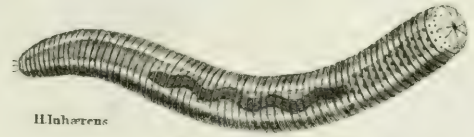
H. squamata



H. squamata
with tentacula expanded



H. Inhaerens



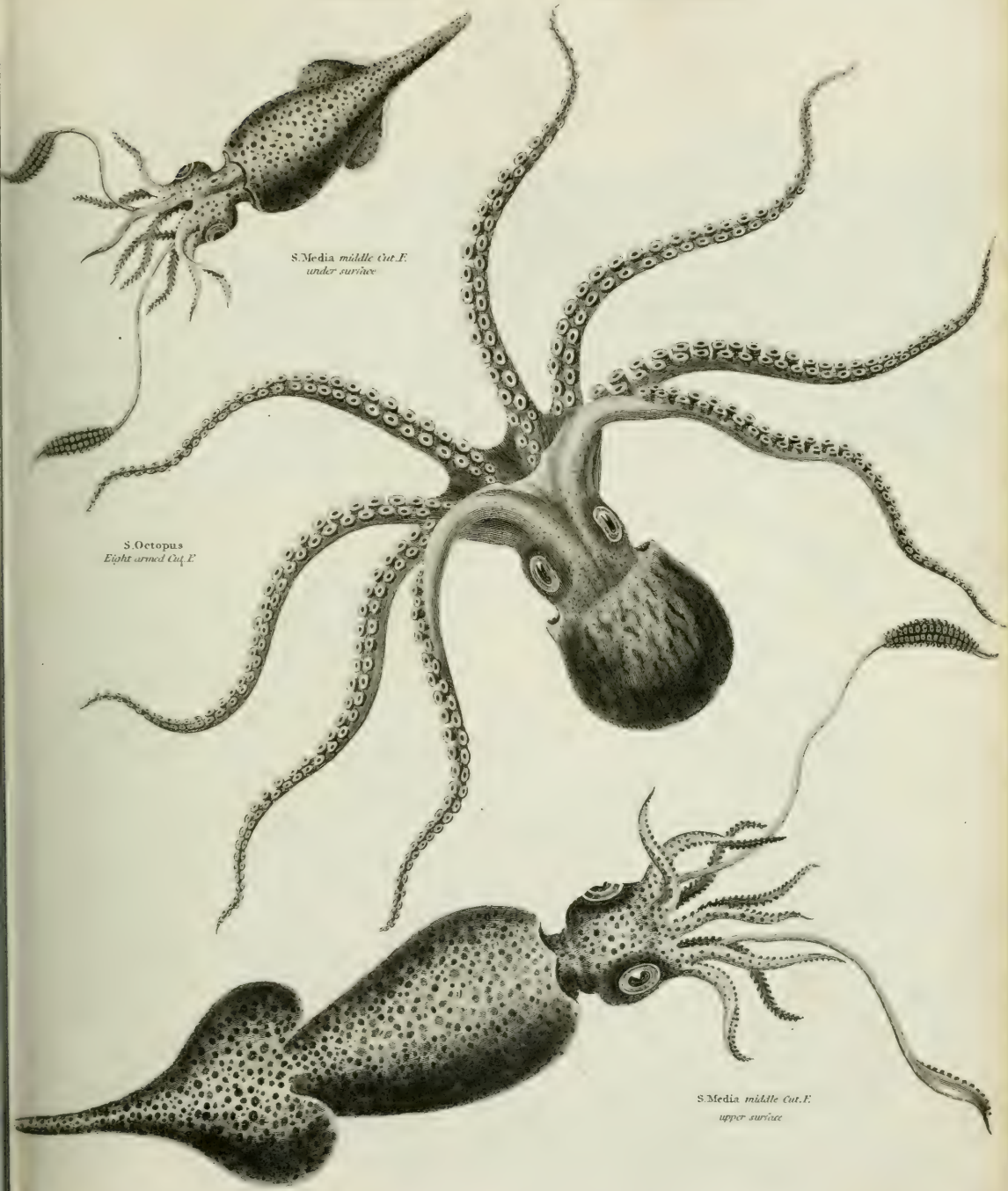
H. Inhaerens



Under surface

Order Mollusc.

Genus Sepia... Cuttle-Fish



*S Media middle Cut.F.
under surface*

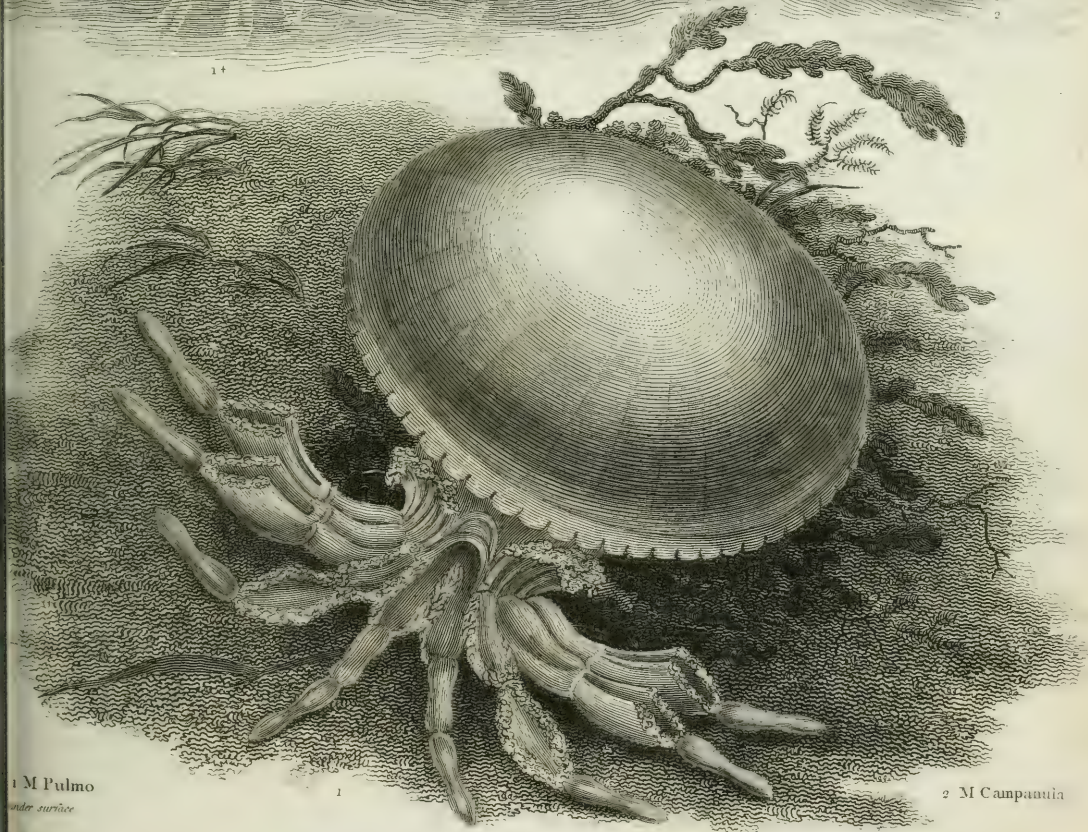
*S Octopus
Eight armed Cut.F.*

*S Media middle Cut.F.
upper surface*

Order Mollusca Genus Medusa.



1



2

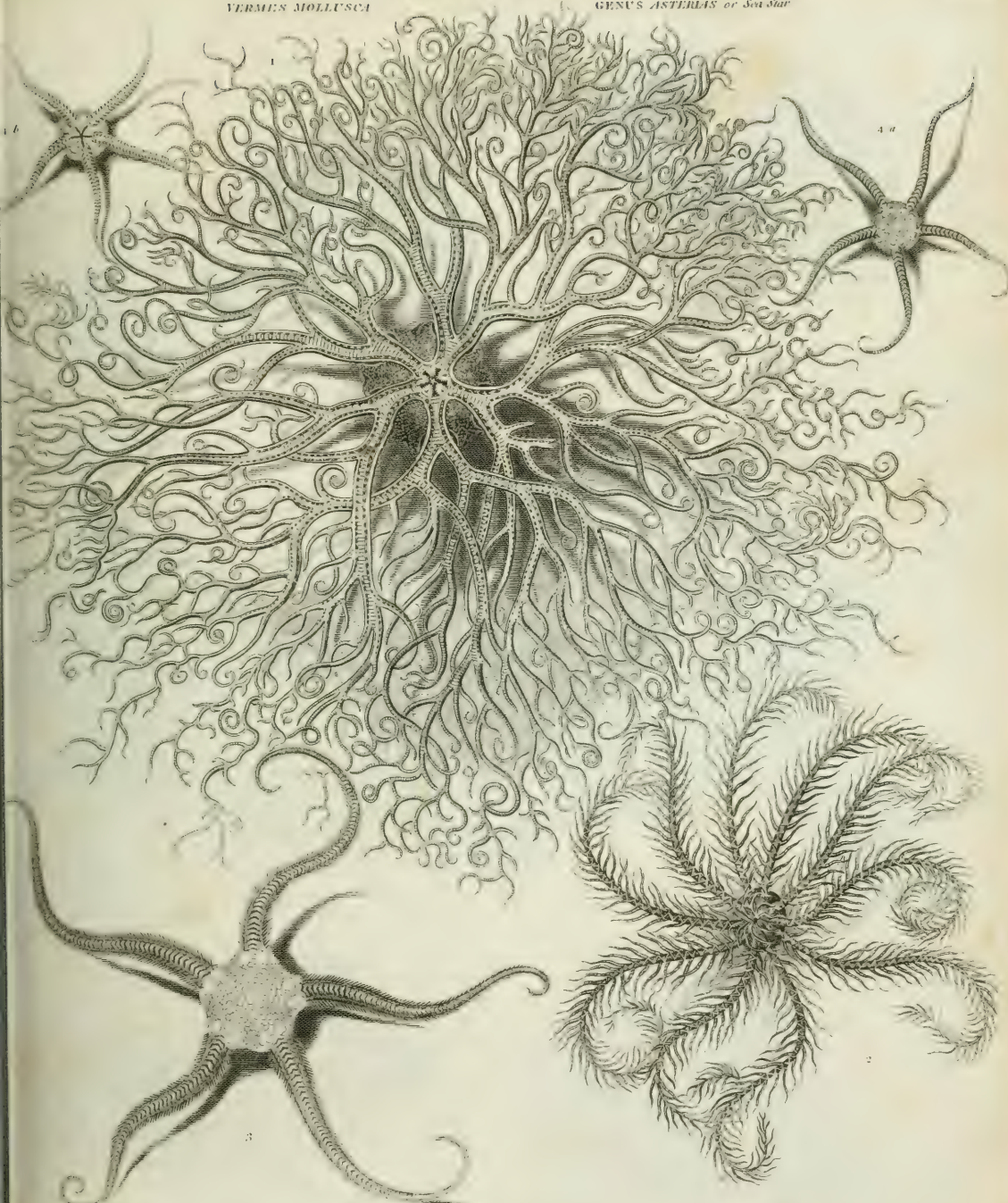
1 M Pulmo
under surface

1

2 M Campanula

VERMES MOLLUSCA

GENUS ASTERIAS or Sea Star



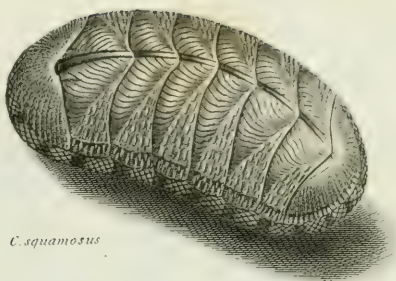
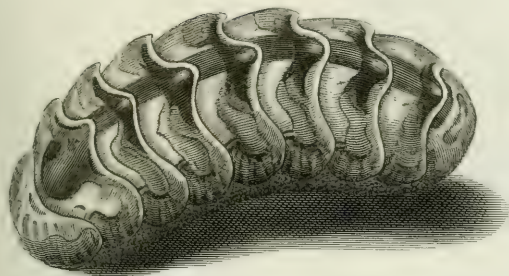
1. *A. Caput Meduse* 2. *A. pectinata* 3. *A. spherulata* 4. *A. ophiura* { a. upper surface
 MEDUSIS HEAD SEA S. PECTINATED SEA S. BEADED SEA S. LIZARD TAIL SEA S. { b. under do

Allen &

Published at the Jet d'eau, May 12th 1841, by Longman, Hurst, Ross, Orms & Brown, Paternoster Row.

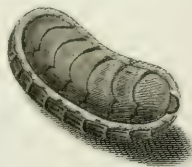
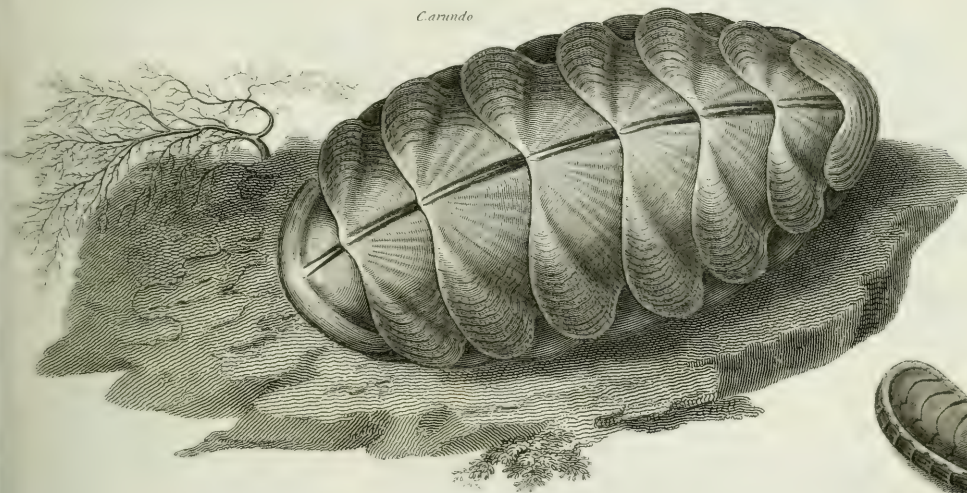
GENUS *CHITON*

C. aculeatus



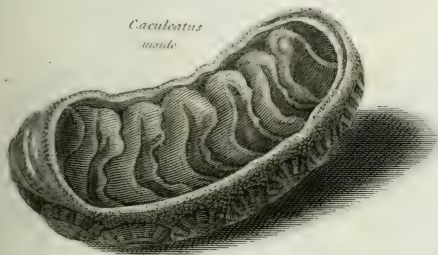
C. squamosus

Carando

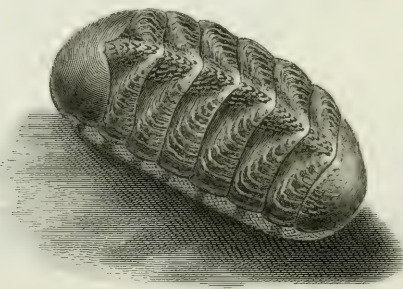


C. olivaceus
musci

Caculeatus
musci



C. olivaceus





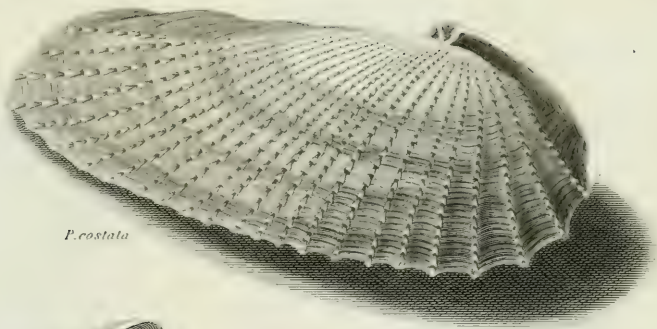
L. anserina



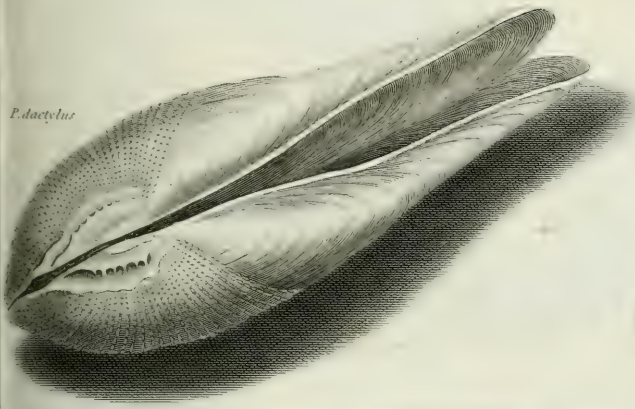
L. anatica



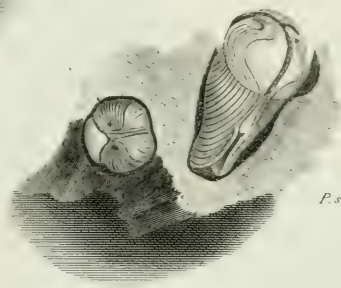
P. striata



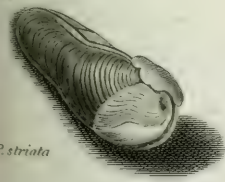
P. costata



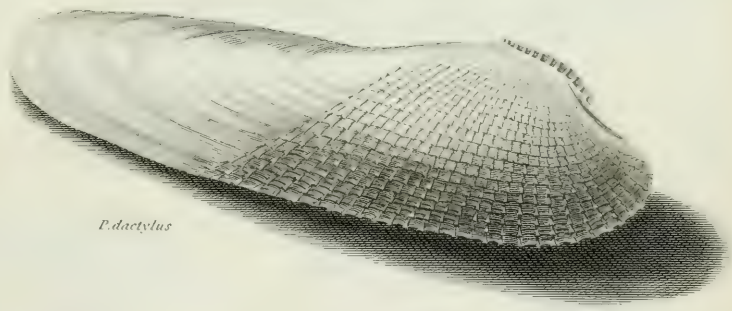
P. dactylus



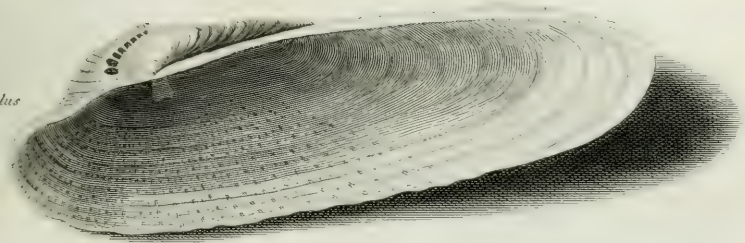
P. striata



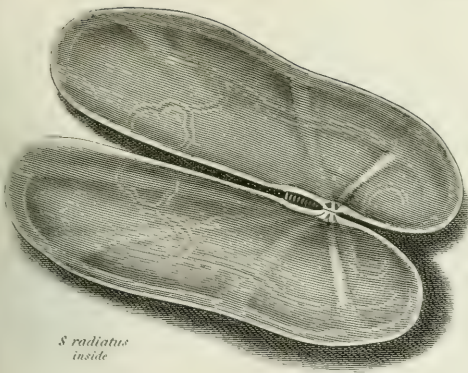
P. striata



P. dactylus



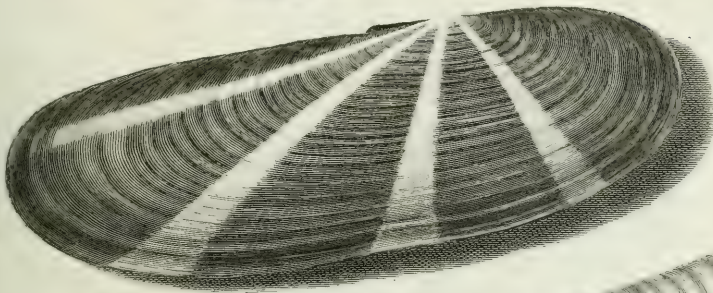
P. dactylus



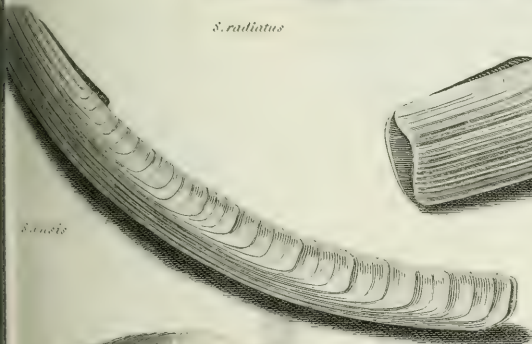
S. radiatus
inside



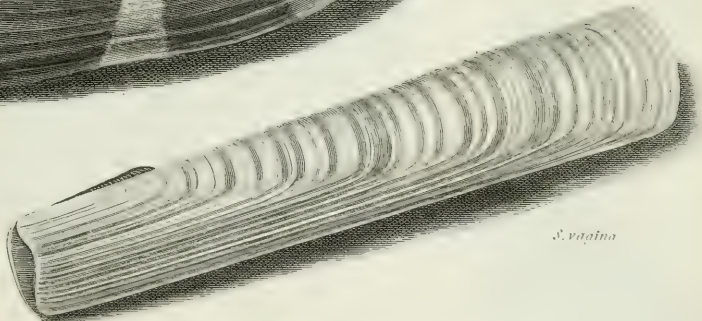
S. stipitatus



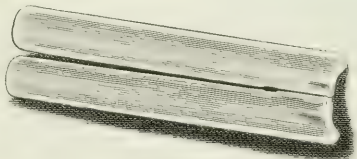
S. radiatus



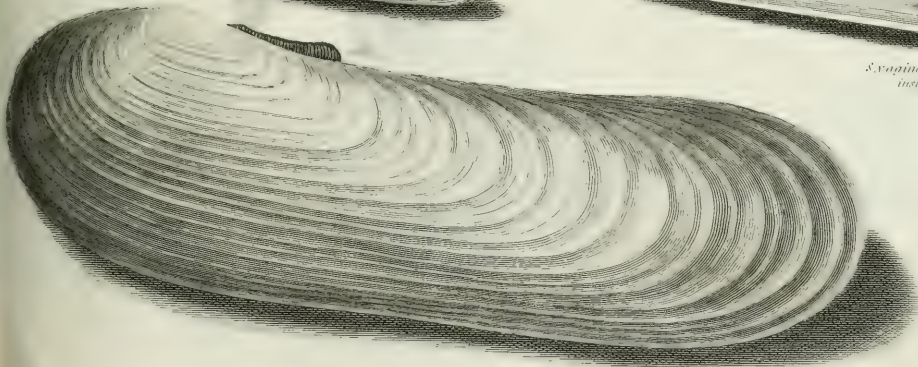
S. acie



S. vagina

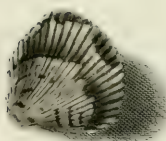


S. vagina young
inside

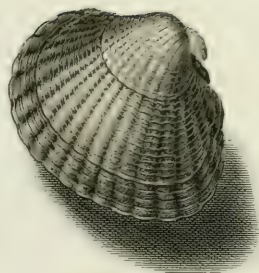


Engraved by J. G. Thompson, from the collection of the Smithsonian Institution.

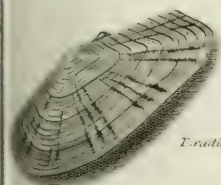
GENUS TELLINA — GENUS CARDIUM.



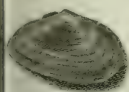
Tellina



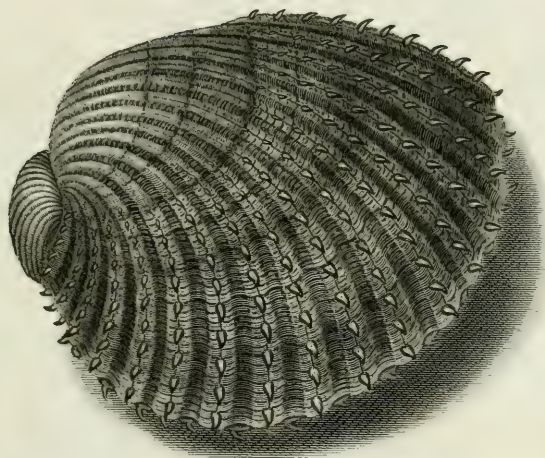
T. edule var.



T. radiata



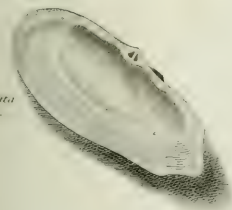
T. fistulata
left side.



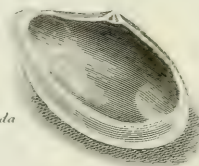
Cardium aculeatum



Tellina
bimaculata



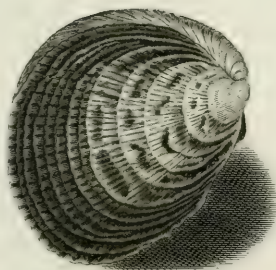
T. radiata
inside.



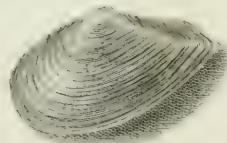
T. squallida
inside.



T. fistulata
right side.

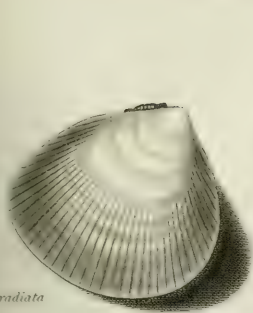


C. laevigatum

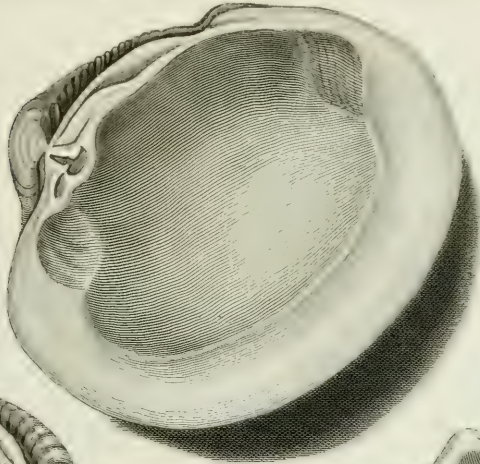


T. squallida

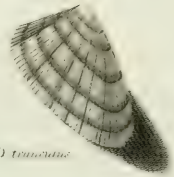
GENUS MYA. G. MICTRA. G. CHAMA. G. VENU'S. G. MYTILUS. G. DONAX.



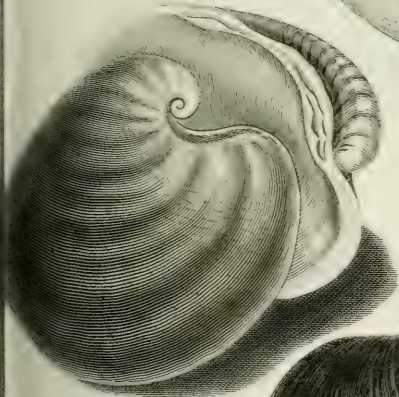
Mya radiata



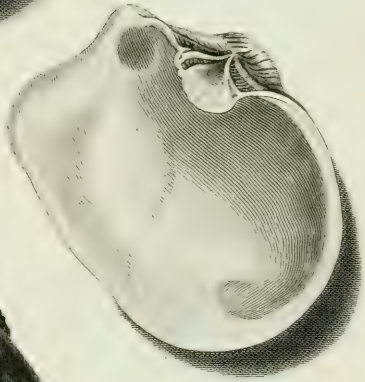
V. Islandica



D. truncatus



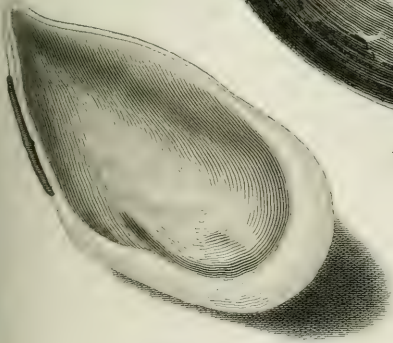
Chama Cor



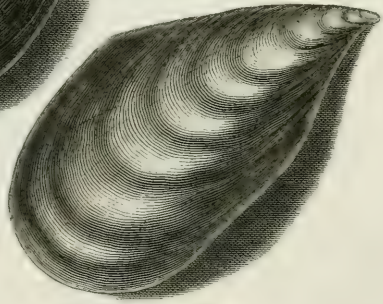
Mya truncata



V. Islandica



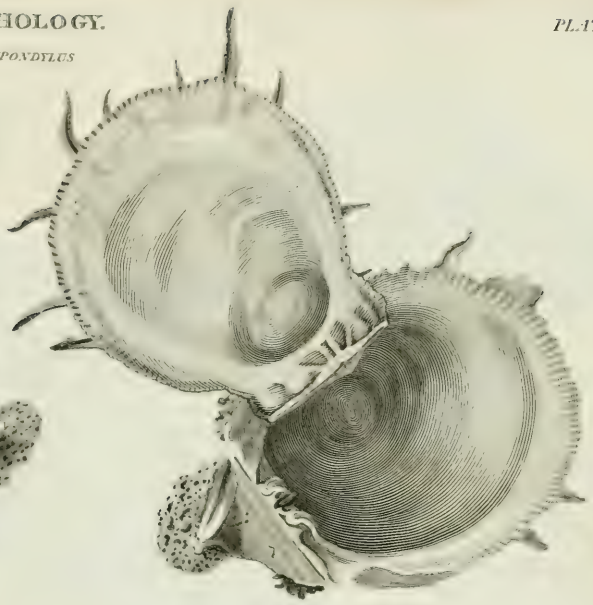
*Mya retusa
var. pacificana*



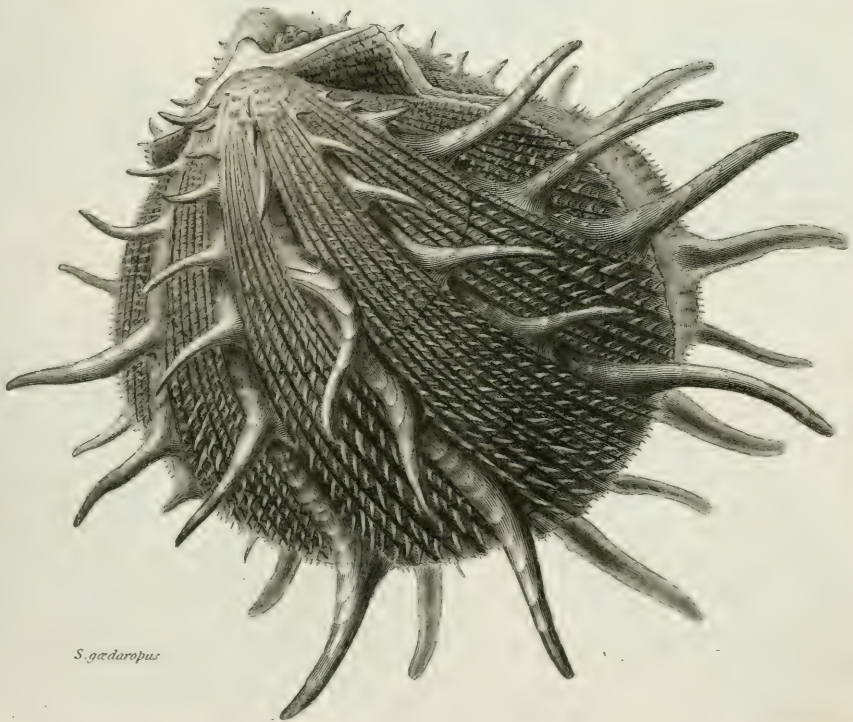
Genus SPONDYLUS



S. gædaropus var.



S. gædaropus var.



S. gædaropus

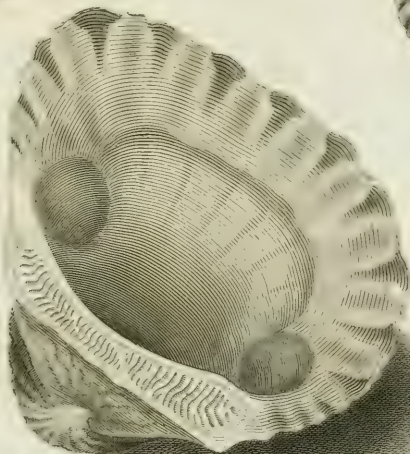
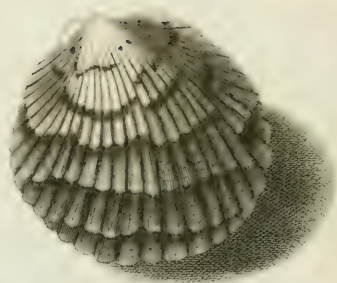
CONCHOLOGY.

Genus *Arca*.

A. tortuosa
usule



A. nebulosa



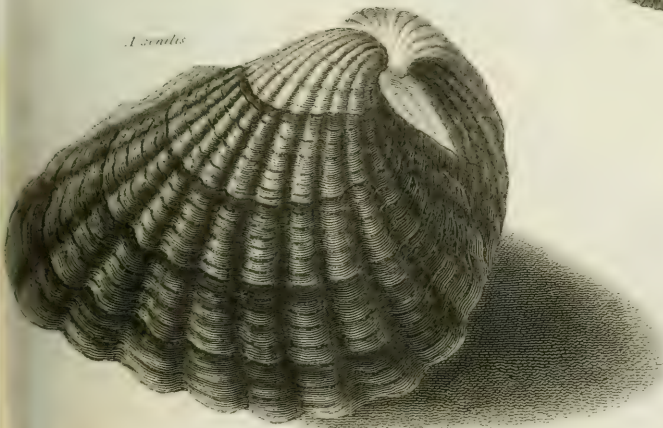
A. ovata
usule

A. nodulosa
usule

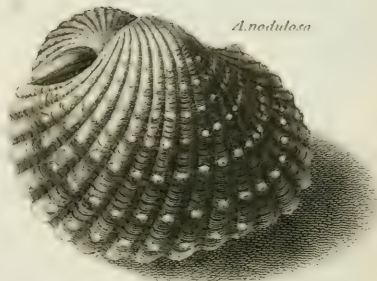


A. tortuosa

A. zentis

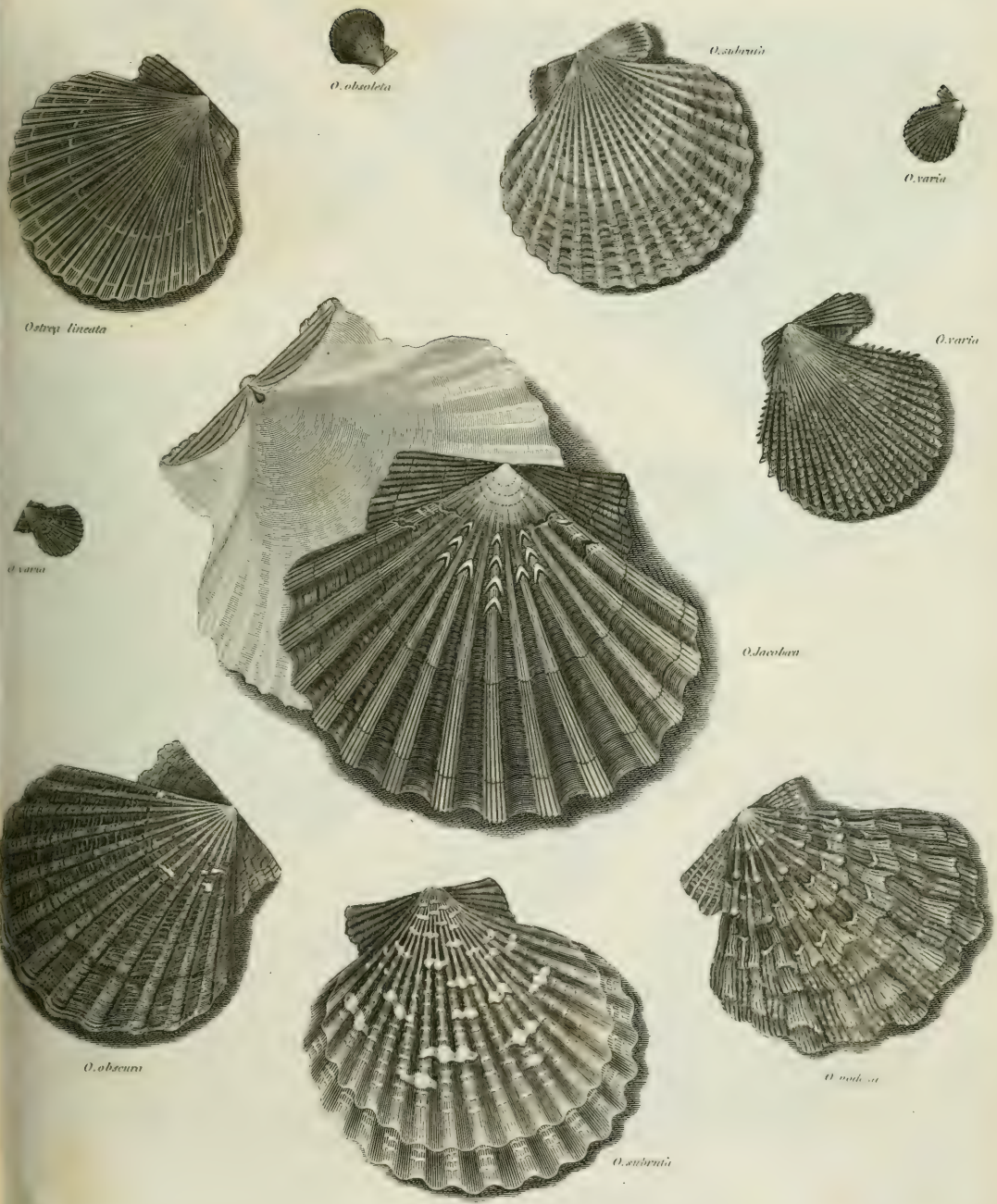


A. nodulosa

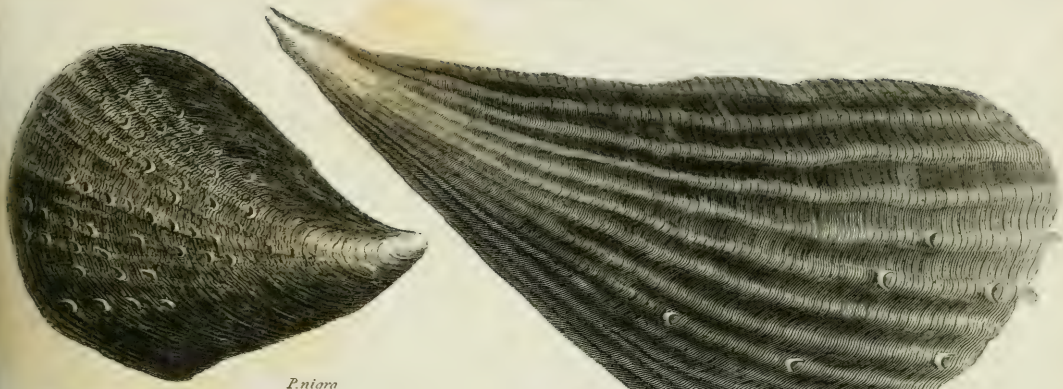




GENUS OSTREA.

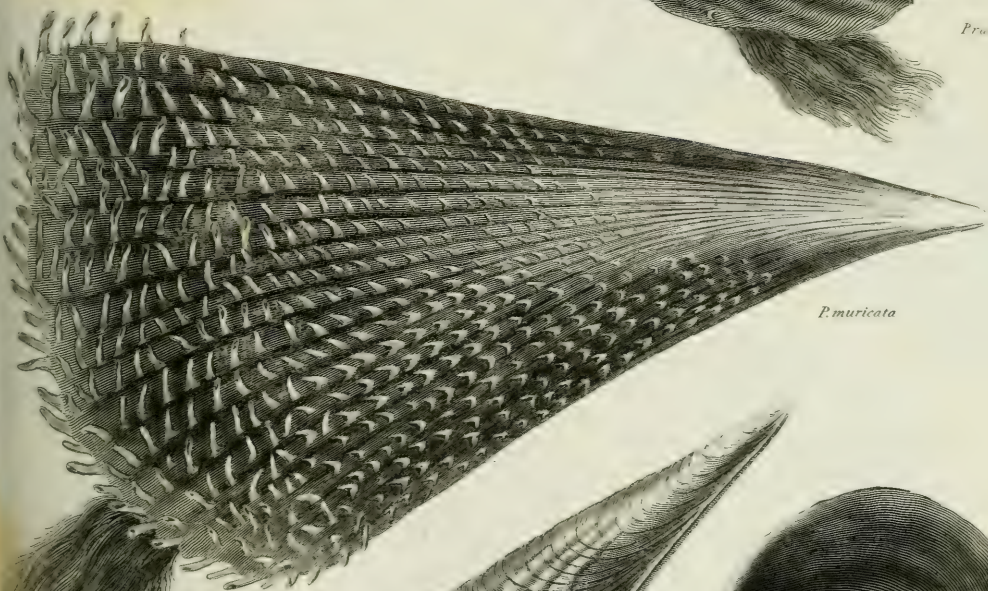


Genus PINNA.

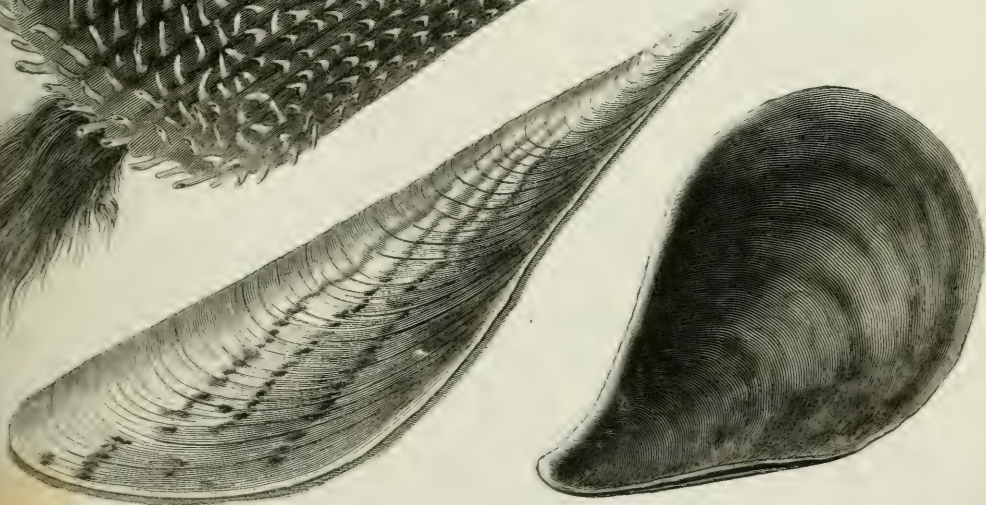


Pniom

Probra



Pmuricata



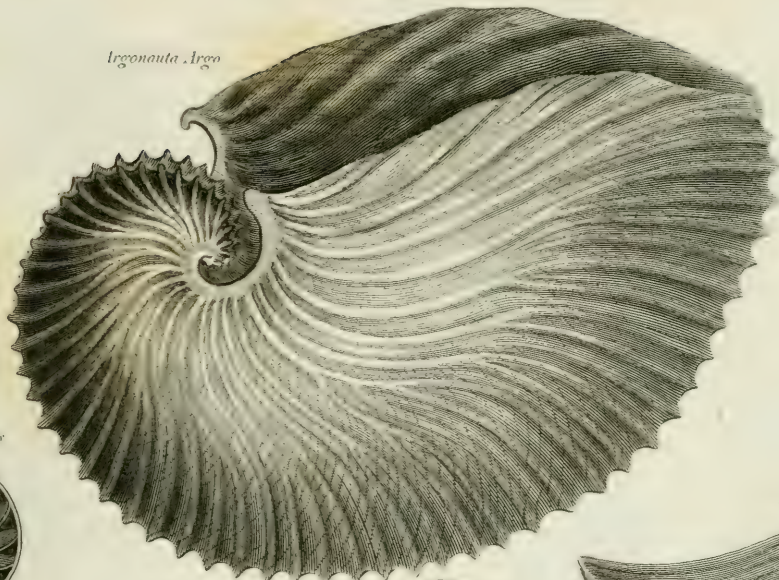
P. fragilis

P. nigra mada

CONCHOLOGY.

Order Univalve ... Genus Argonauta ... G. Nautilus

Argonauta Argo



Section of Nautilus



Argonauta Vitrus



*Nautilus
Pompius*



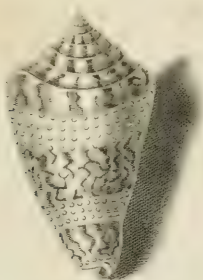
Nautilus Pompeius

CONCHOLOGY.

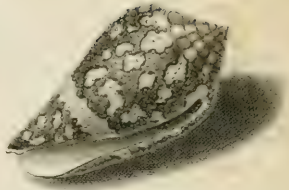
GENUS BULLA. G. CONUS. G. TORO. G. HELIX. G. FERETI.



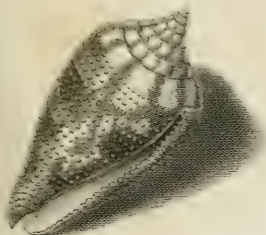
B. ligularia



C. Ammiralis var
Banded Cedo nulli Cone



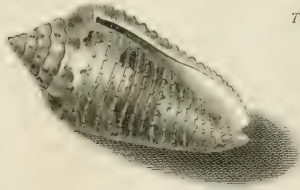
C. Ammiralis var
Sclaa C.n.C



C. Ammiralis var
Curacao C.n.C.



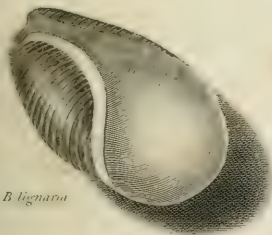
T. trilineatus



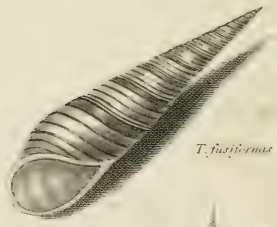
C. Ammiralis var
Southern C.n.C



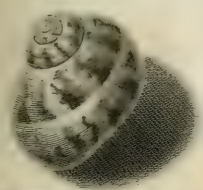
C. Ammiralis var
Marbled C.n.C



B. ligularia



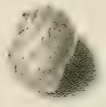
T. fusiformis



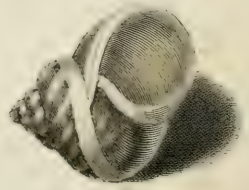
H. varians



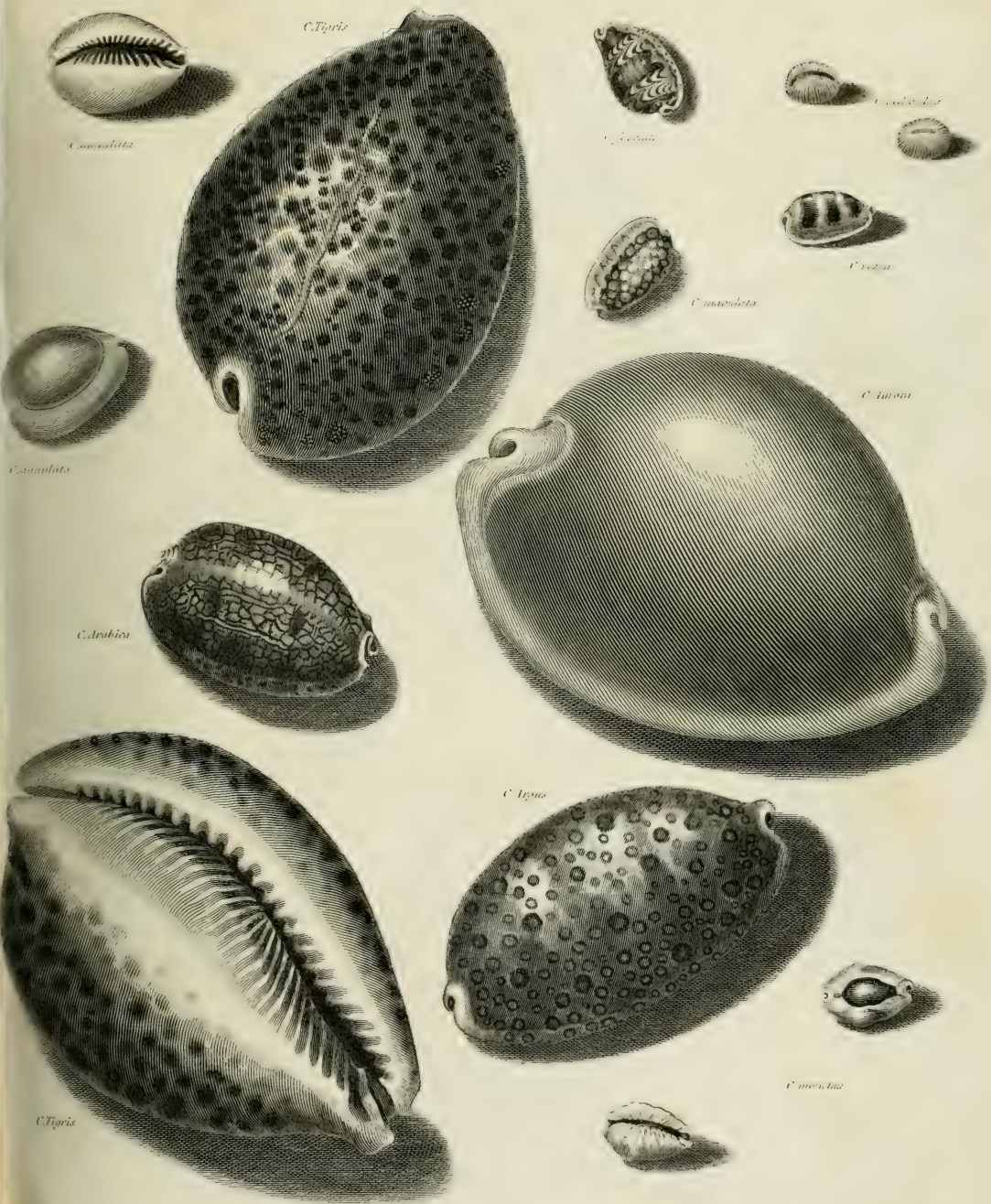
N. carenta



H. varians







C. Tyris

C. calata

C. Arabis

C. murex

C. murex

C. mureolata

C. aurata

C. calata

C. Arabis

C. ignea

C. murex

C. Tyris

Cypræa calata (Linn.) *Cypræa Arabis* (Linn.) *Cypræa ignea* (Linn.) *Cypræa mureolata* (Linn.) *Cypræa aurata* (Linn.) *Cypræa murex* (Linn.)

Order Volutæ.



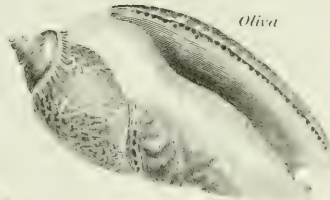
Papalis



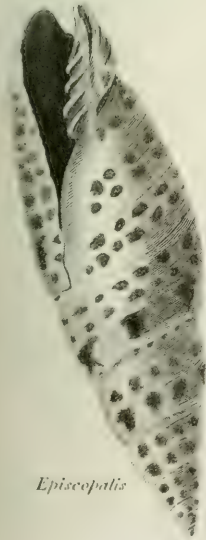
Indica



Epialis



Oliva



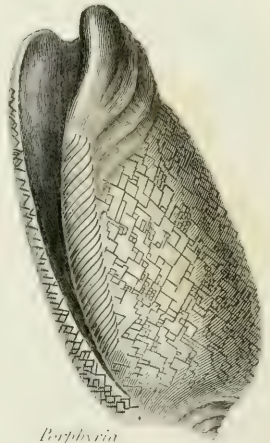
Episcopalis

Tornatilis



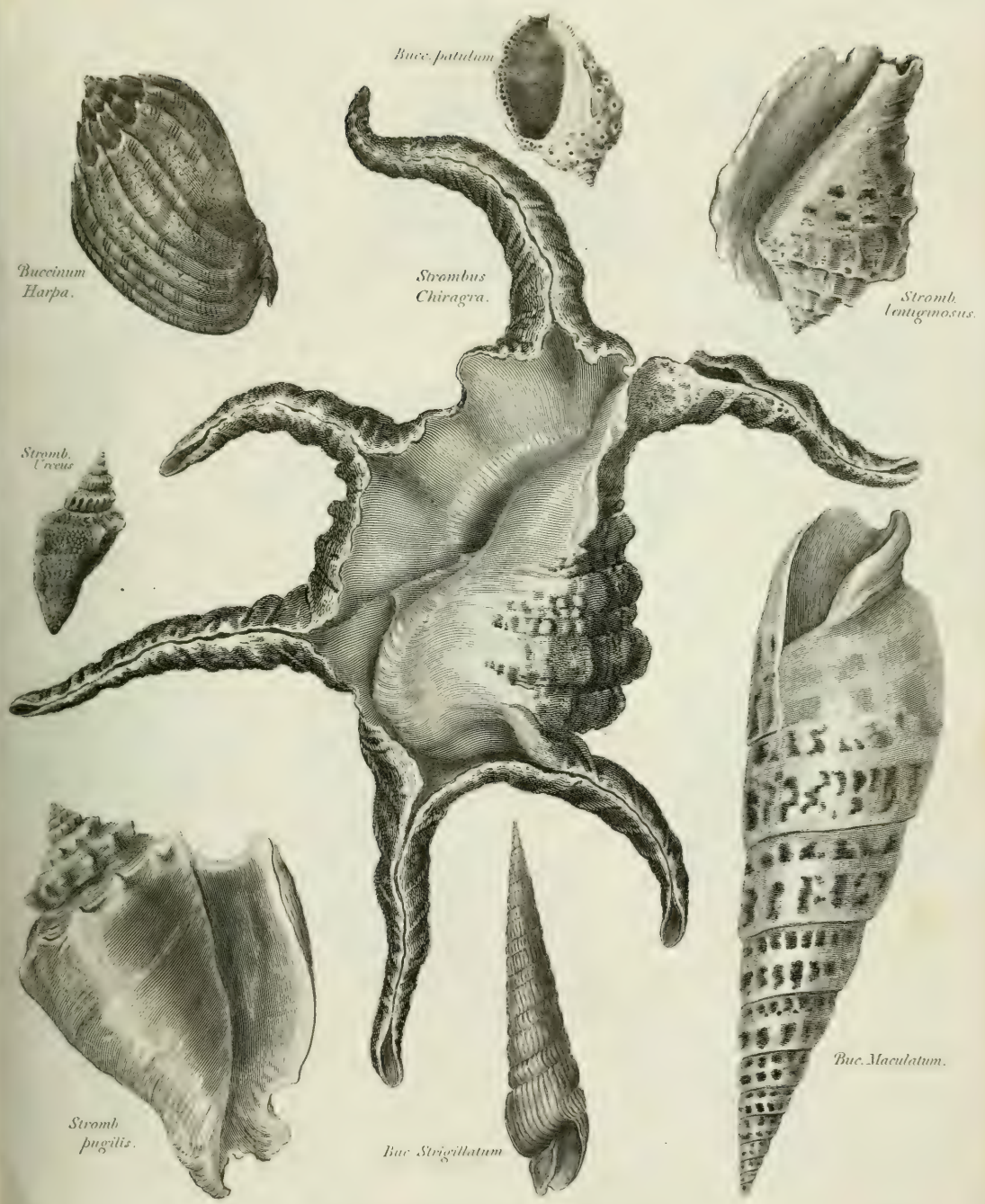
Aethiopica

Pallida



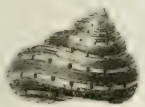
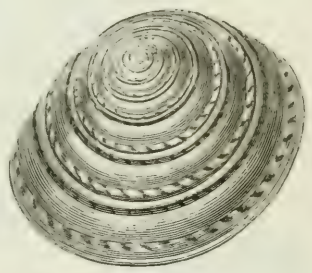
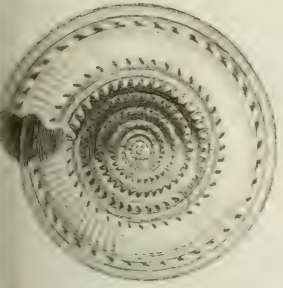
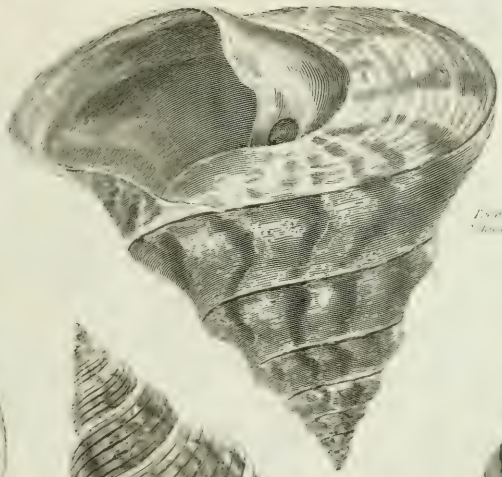
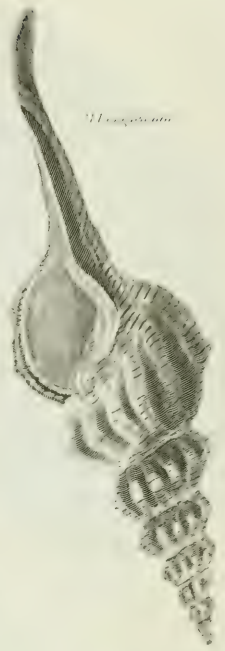
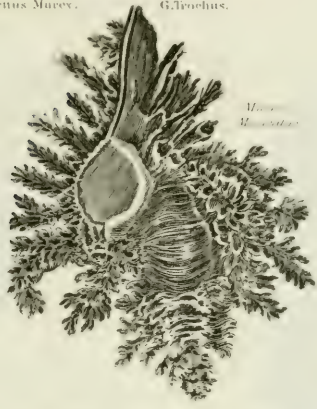
Porphyria

Order Voluta



ORDER UNIVOLVE.

Genus Murex. G. Trochus.



Murex

Murex
trochus

Murex
trochus

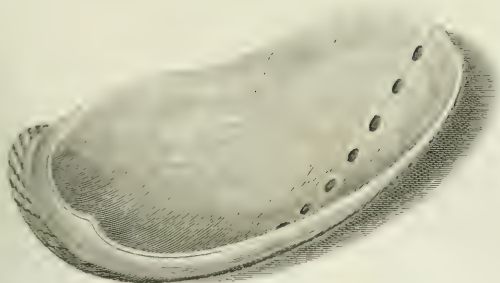
Murex
trochus

Murex
trochus

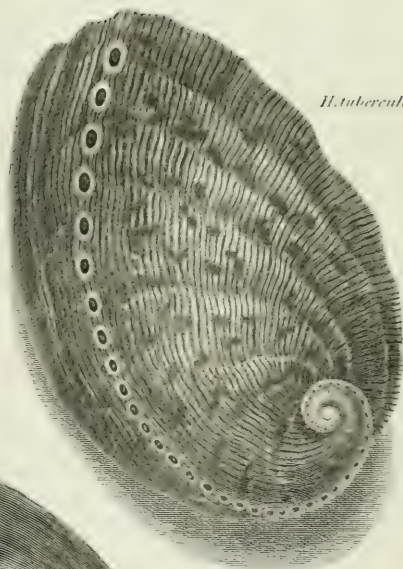
Murex
trochus

Murex
trochus

Murex
trochus



H. Asinum



H. tuberculata

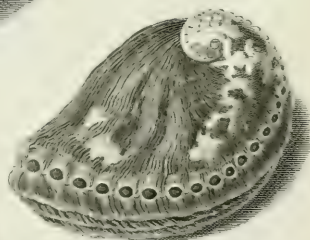
H. levigata

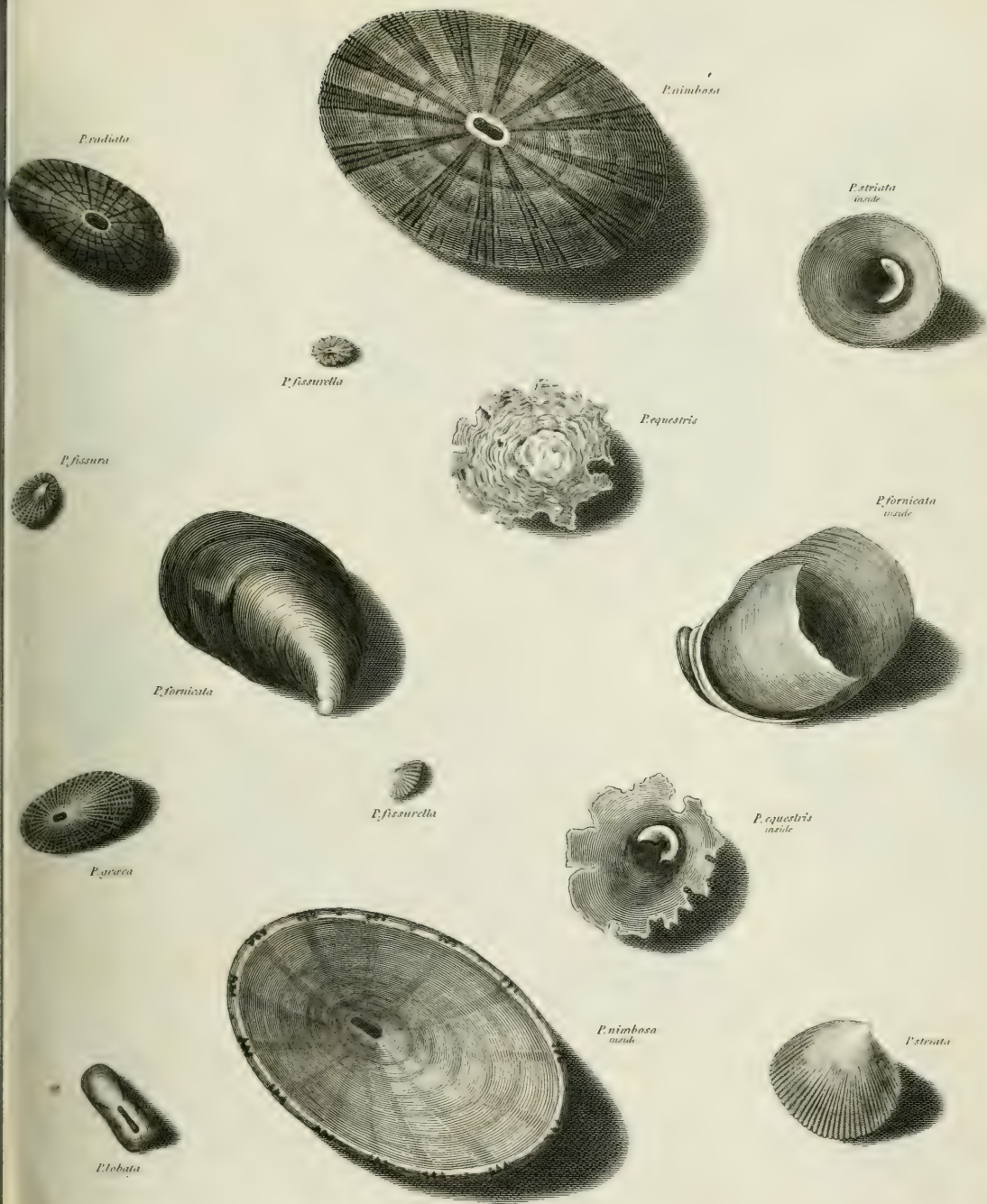


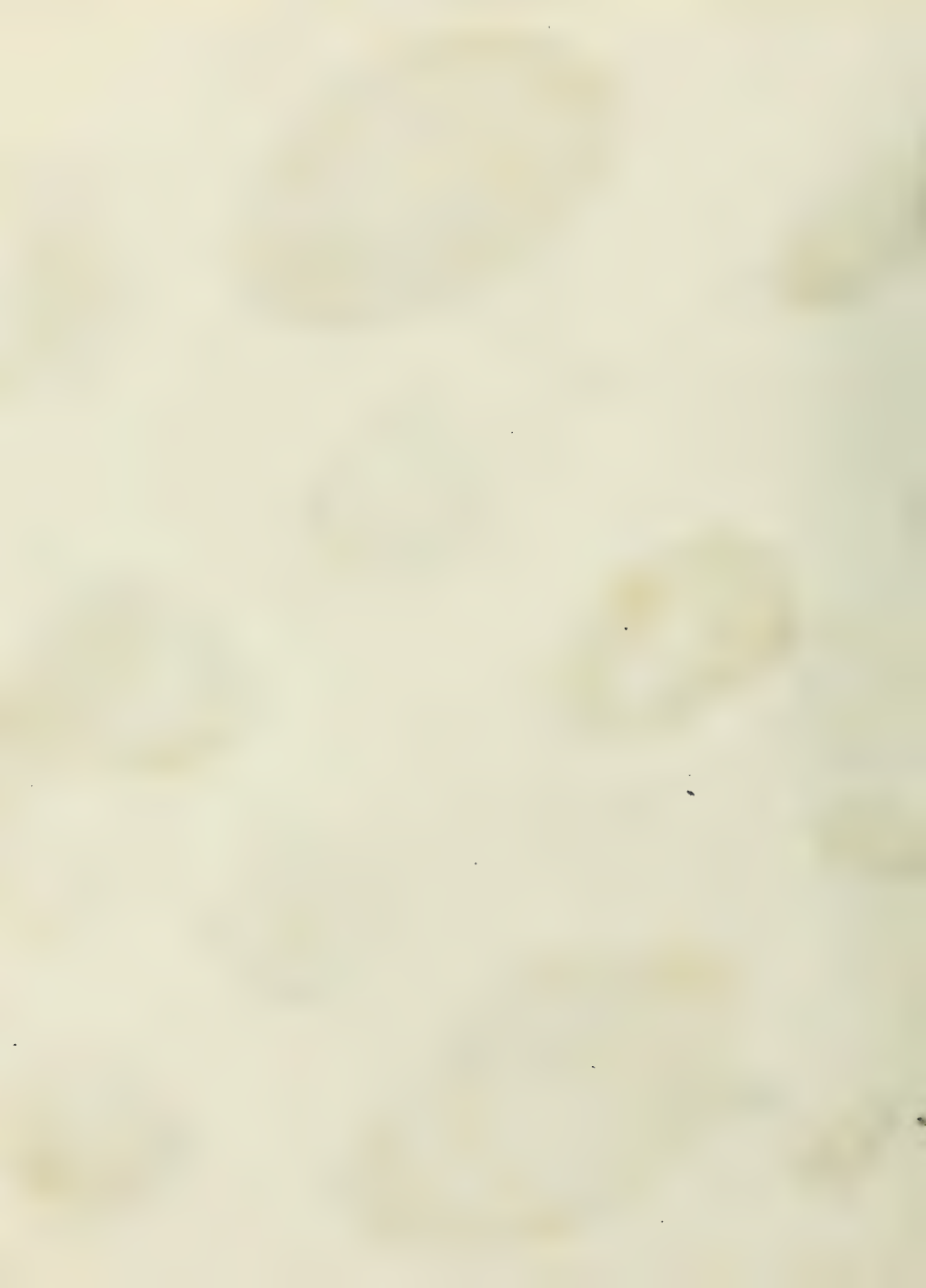
H. Asinum



H. spaldingii

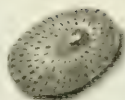






GENUS *PITELLI*

P. ovata



P. sagittata



P. radiata



P. auricula

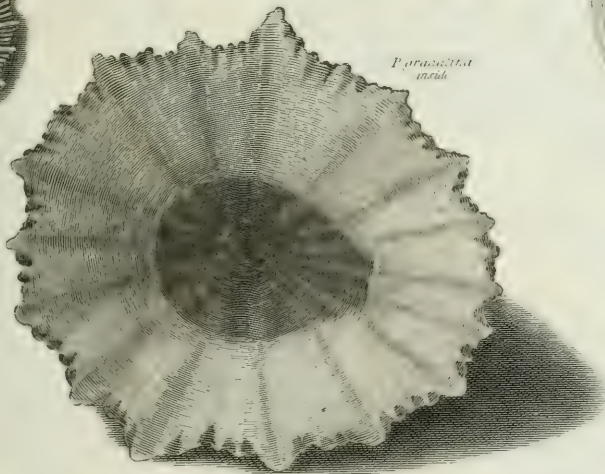


P. ovata var.

P. anatina

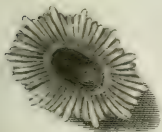


P. parasittata
incol.

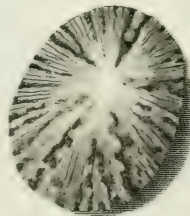


P. auricula

P. auricula

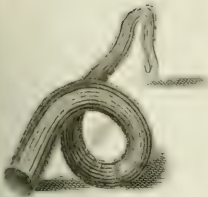


P. striolata

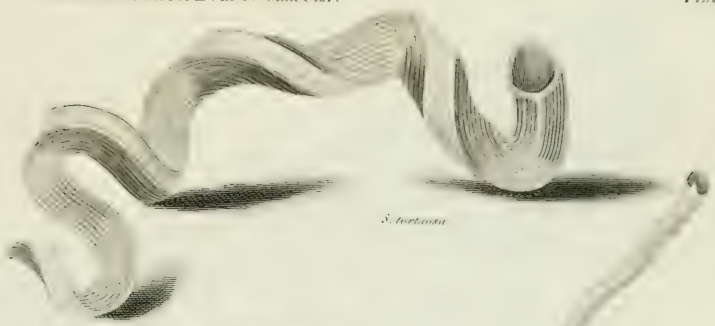


CONCHOLOGY

GENUS DENTILUM - GENUS SERPULA.



S. reticulata



S. tortuosa



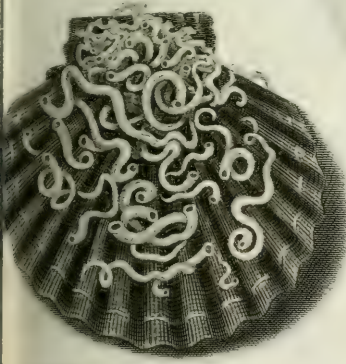
Serpula peni



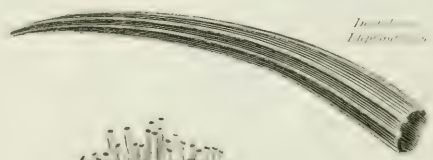
Serpula



Serpula



Serpula



Serpula



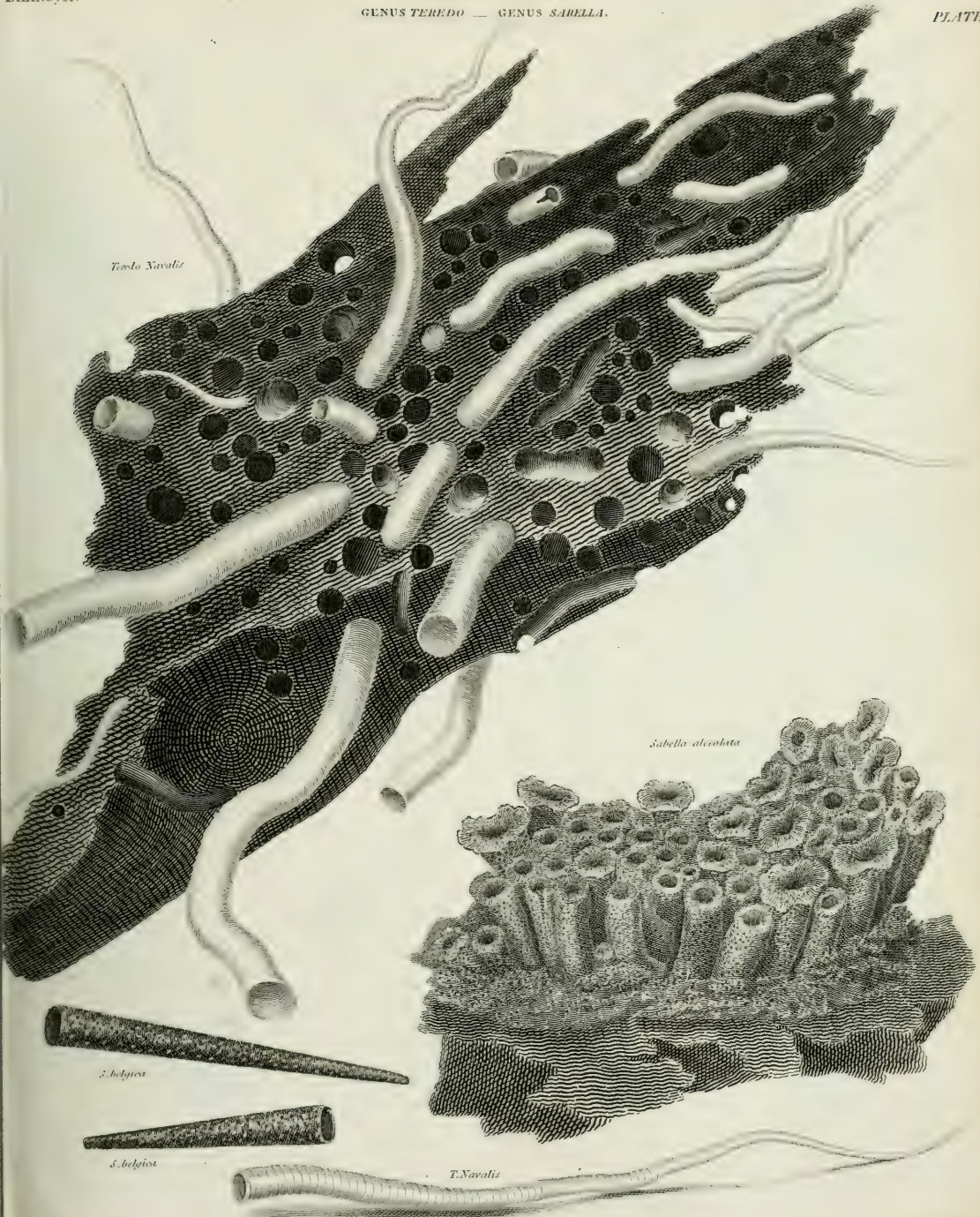
Serpula



Serpula



Serpula



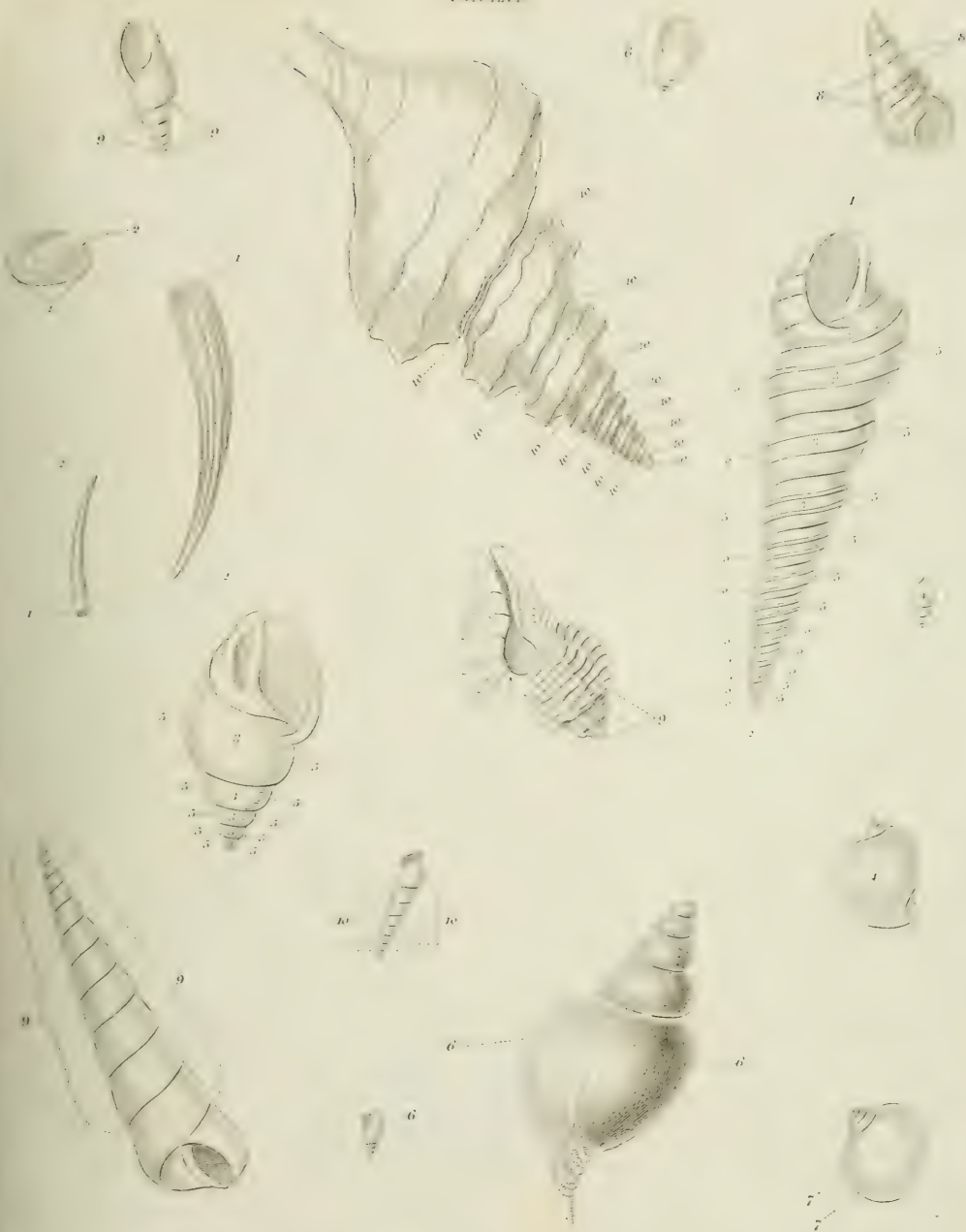
Teredo Navalis

Sabella obscolata

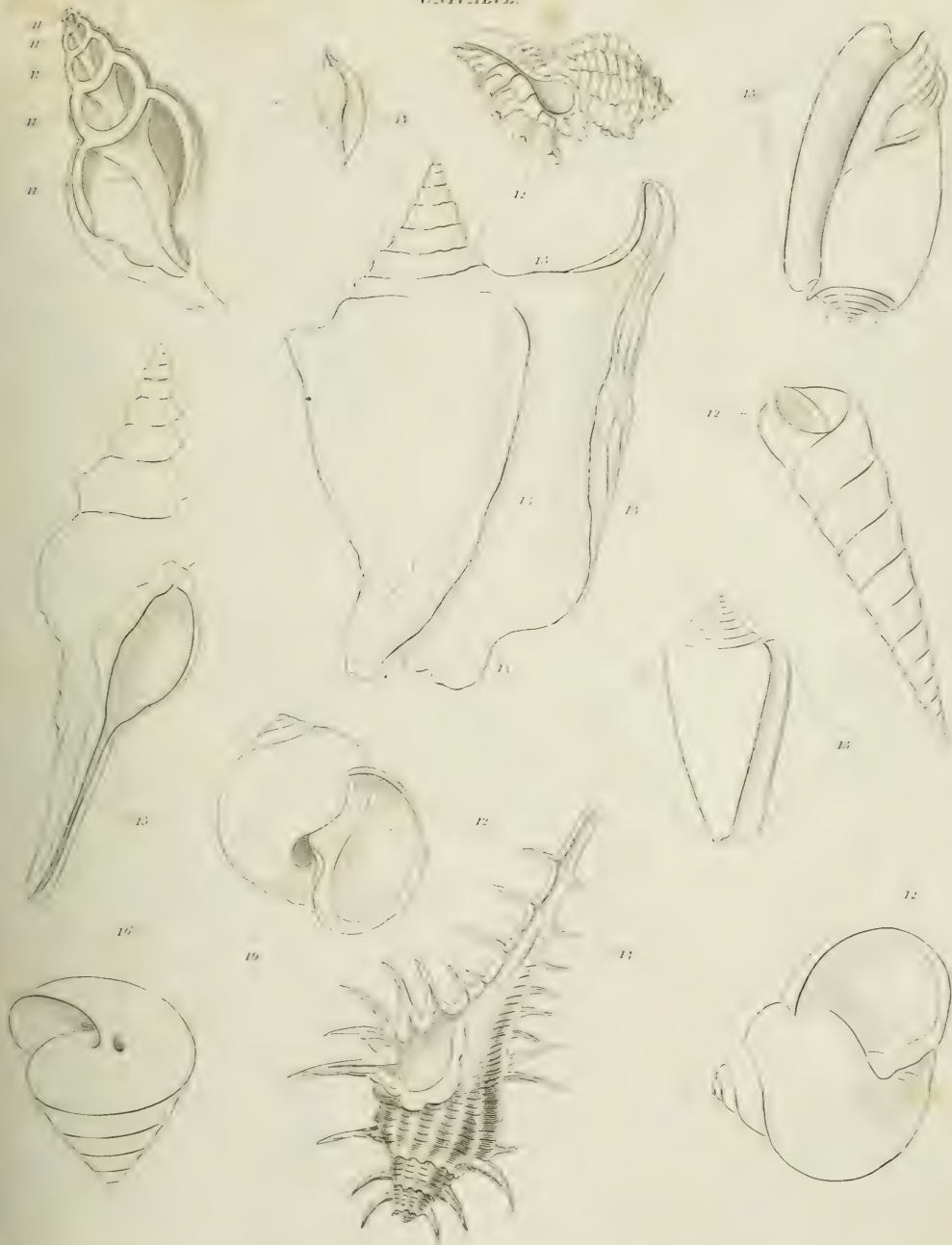
S. belgica

S. belgica

T. Navalis

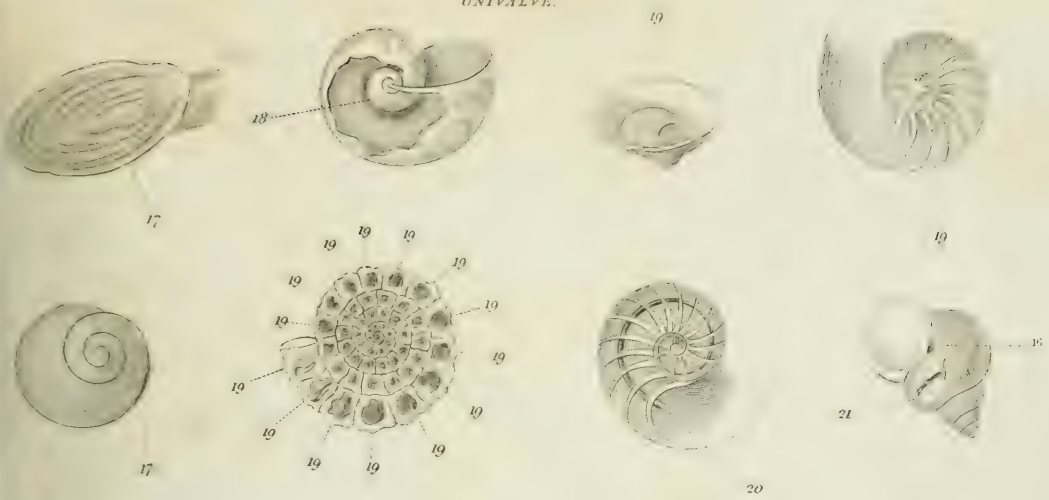


1. Base. 2. Apex. 3. Front. 4. Back. 5. Sides. 6. Body. 7. Belly. 8. Whorl. 9. Spire. 10. Suture of the Spire or Whorl.

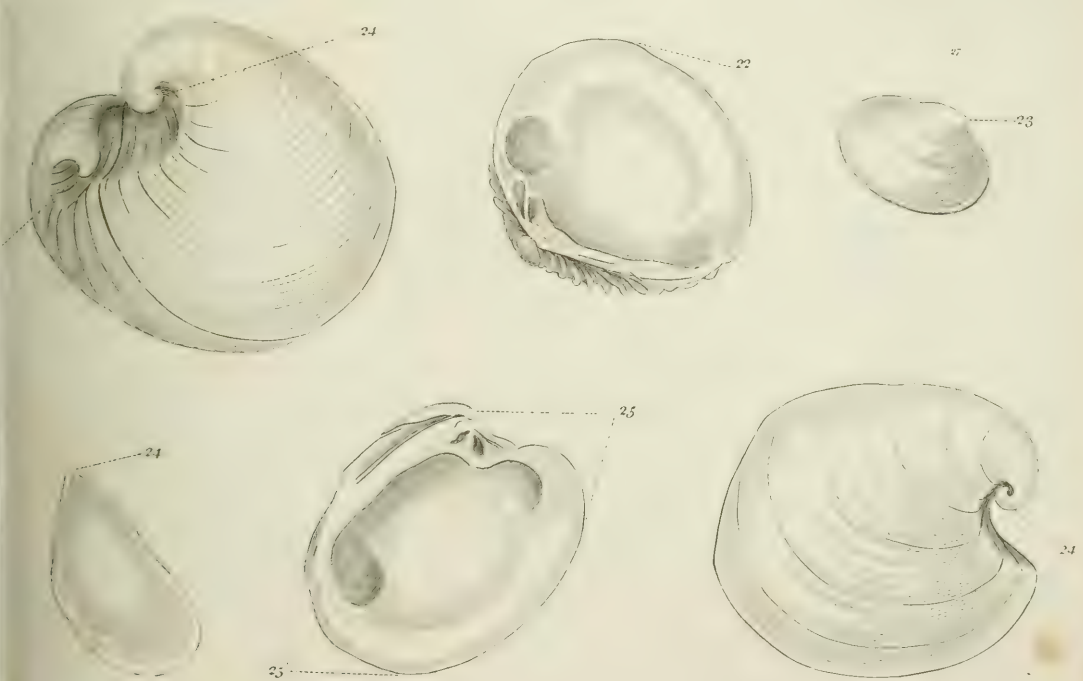


11. Volar or Columella. 12. Aperture. 13. Lip. 14. Beak. 15. Canal. 16. Umbilicus.

Elementary.
UNIVALVE.



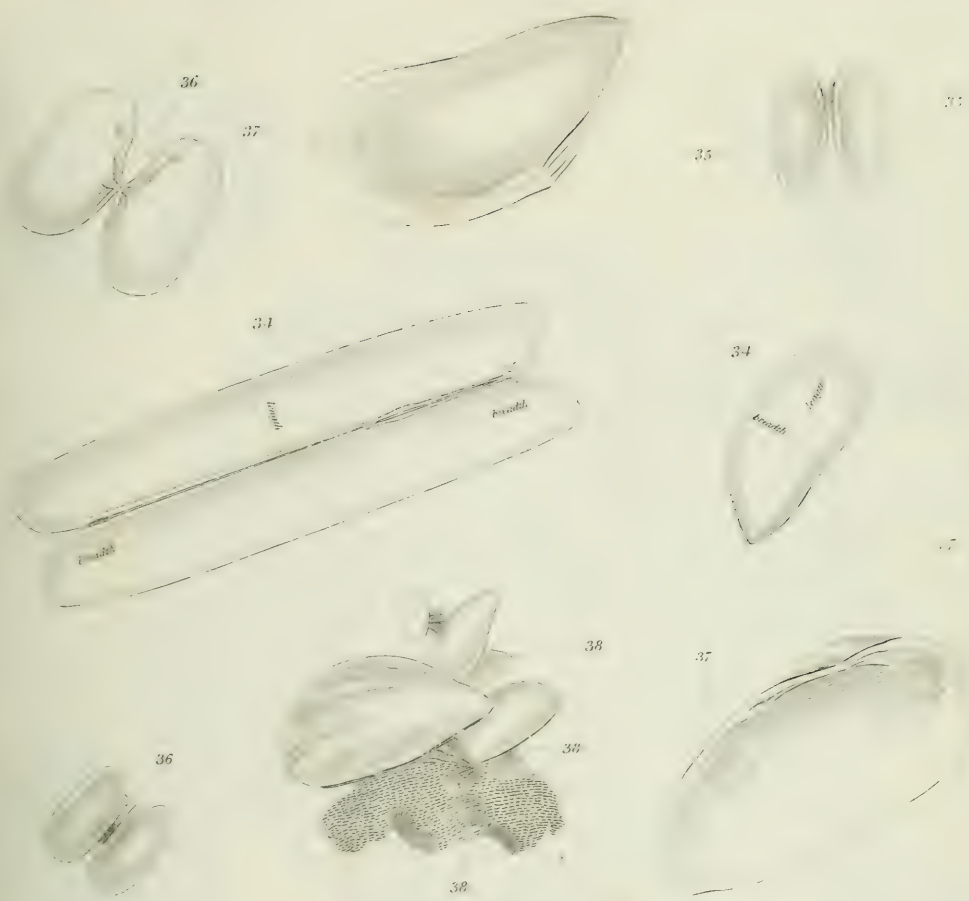
BIVALVES



17. Operculum. 18. Involved Spire. 19. Chambers. 20. Siphunculus. 21. Epidermis. 22. Base. 23. Summit. 24. Beak. 25. Sides.



26. Margin or Limb - 27. Disk - 28. Anterior Slope - 29. Posterior Slope - 30. Lunule a. b. - 31. Cartilage - 32. Ears - 33. Ligament perforation.



MULTIVALVES

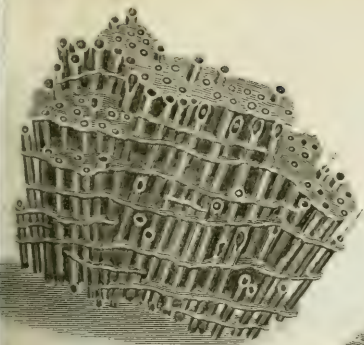


34.Length and Breadth - 35.Inside - 36.Hinge - 37.Cicatrix - 38.Byssus - 39.Base. 40.Ligament - 41.Operculum.

Published at the New York Jan. 27. 1850 by Longman, Hurst, Rods & Orme, Stationers to Her Majesty.

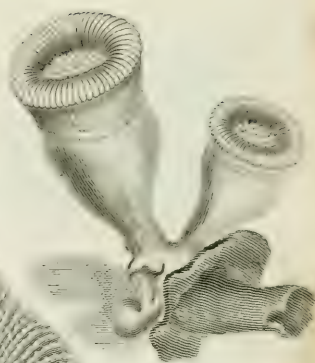
ZOOPHYTES.

GENUS *TUBIPORA*—*G. MADREPORA*.



Tubipora musica.

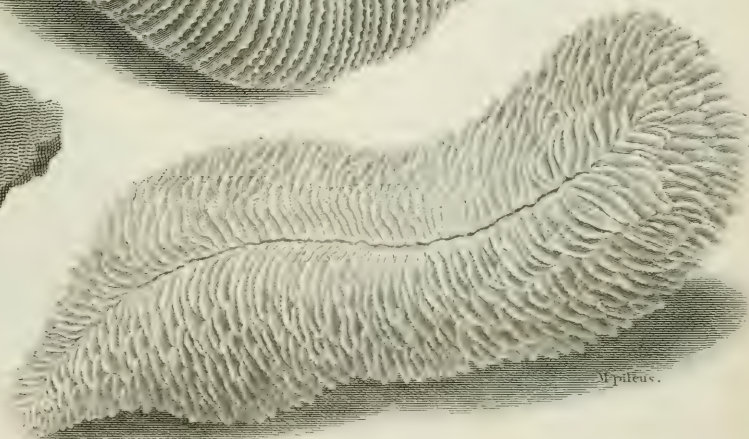
M. angites.



Madrepora Agathus.

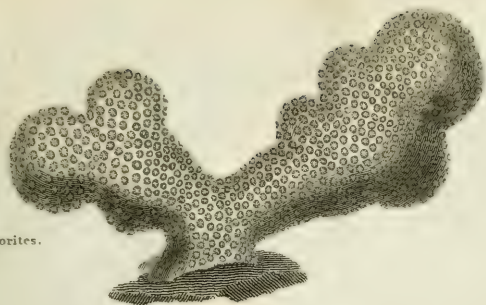


M. foliaceus.



M. pileus.

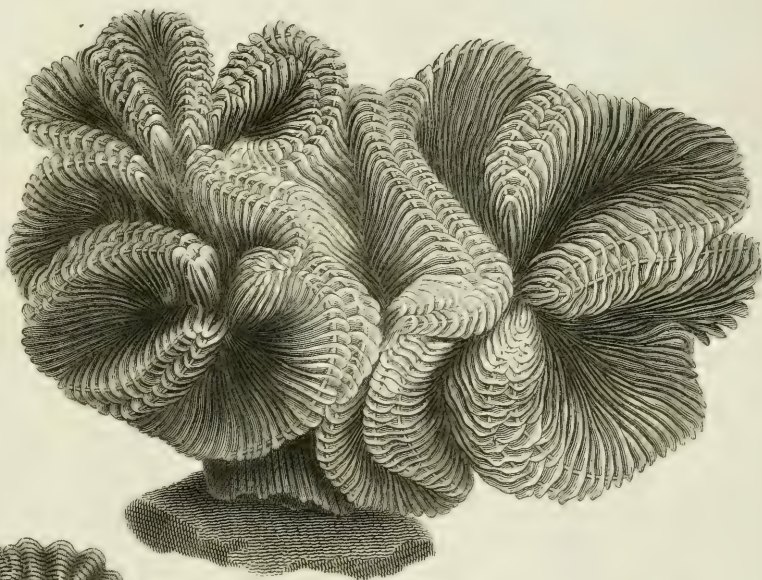
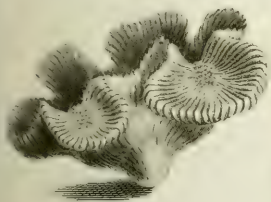
M.porites.



M.ananas.

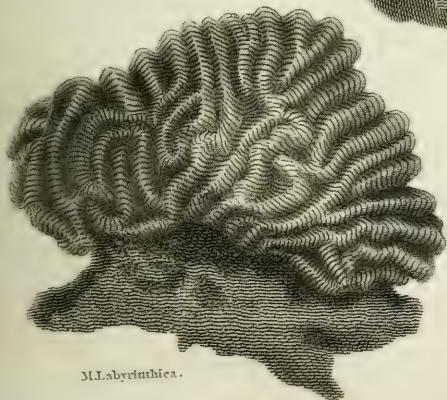


Mareolata.

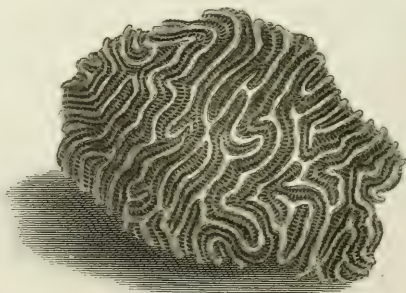


Madrepora grossa.

M.labyrinthica.



M.phrygia.



GENUS *ISIS* — GENUS *ANTIPATHES*.



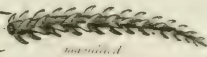
I. Cocinea.



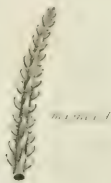
I. Hippuris.



A. Subpinnata.



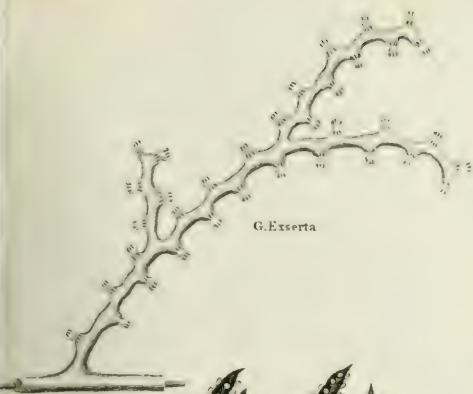
Antipathes.



Antipathes.



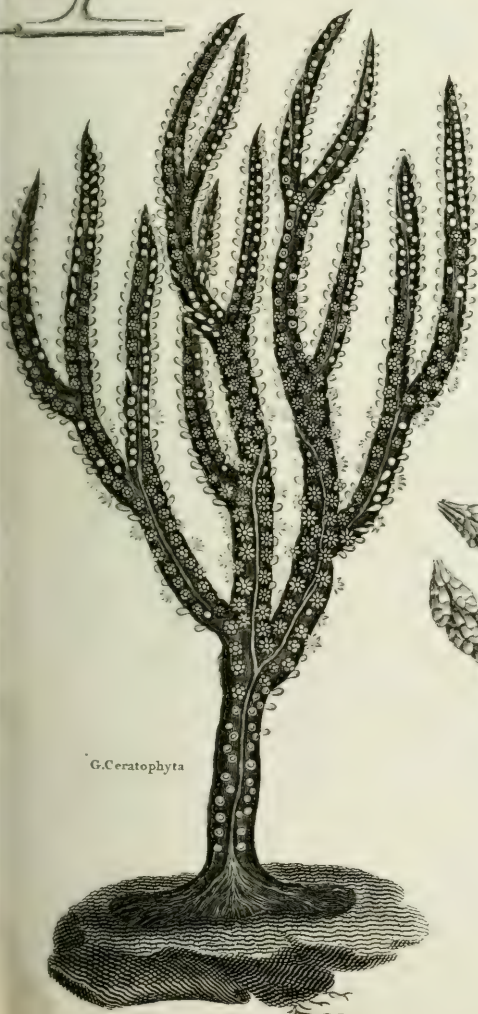
A. Microphella.



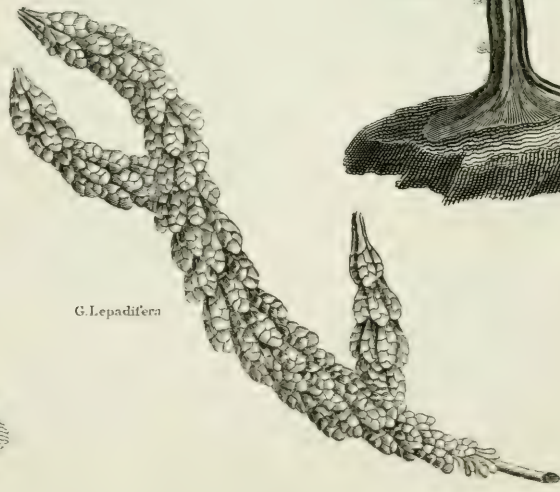
G. Exserta



G. Americana



G. Ceratophyta

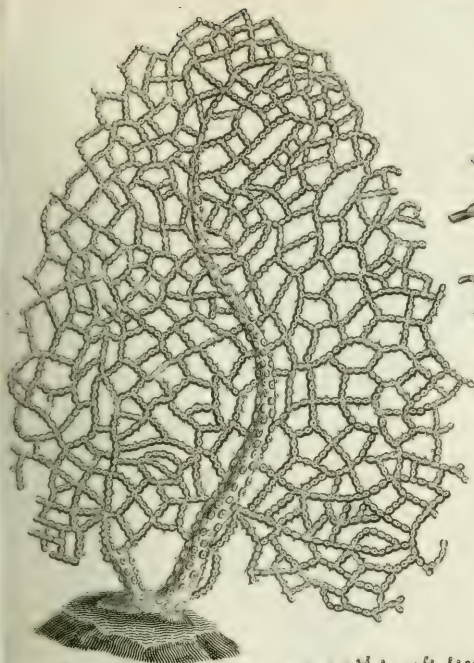


G. Lepandifera

ZOOPHYTES.

GENUS GORGONIA.

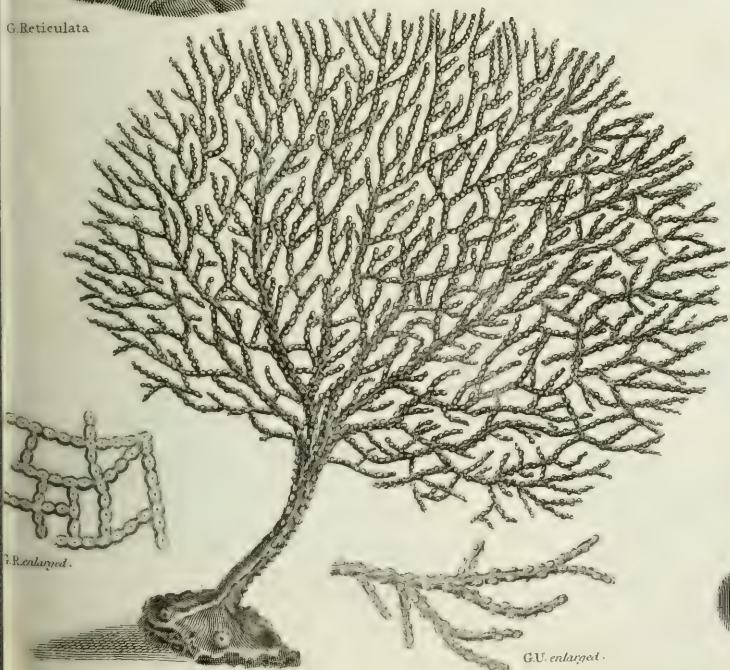
Sea Fan.



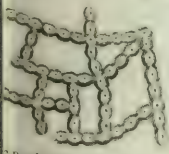
G. Reticulata



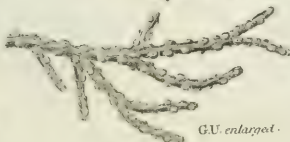
G. Nobilis



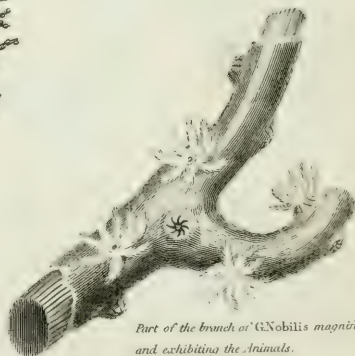
G. Umbraculum



G. Umbraculum enlarged.



G. Umbraculum enlarged.



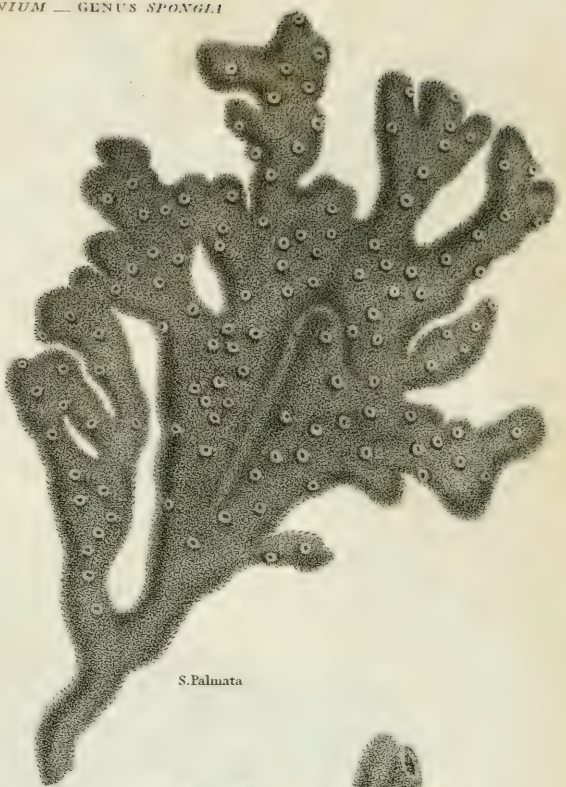
Part of the branch of *G. Nobilis magnifica* and exhibiting the Animals.

GENUS *ALCYONIUM* — GENUS *SPONGIA*

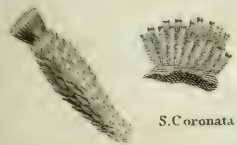
S. Protifera



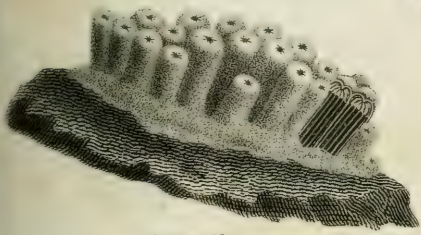
S. Palmata



S. Coronata

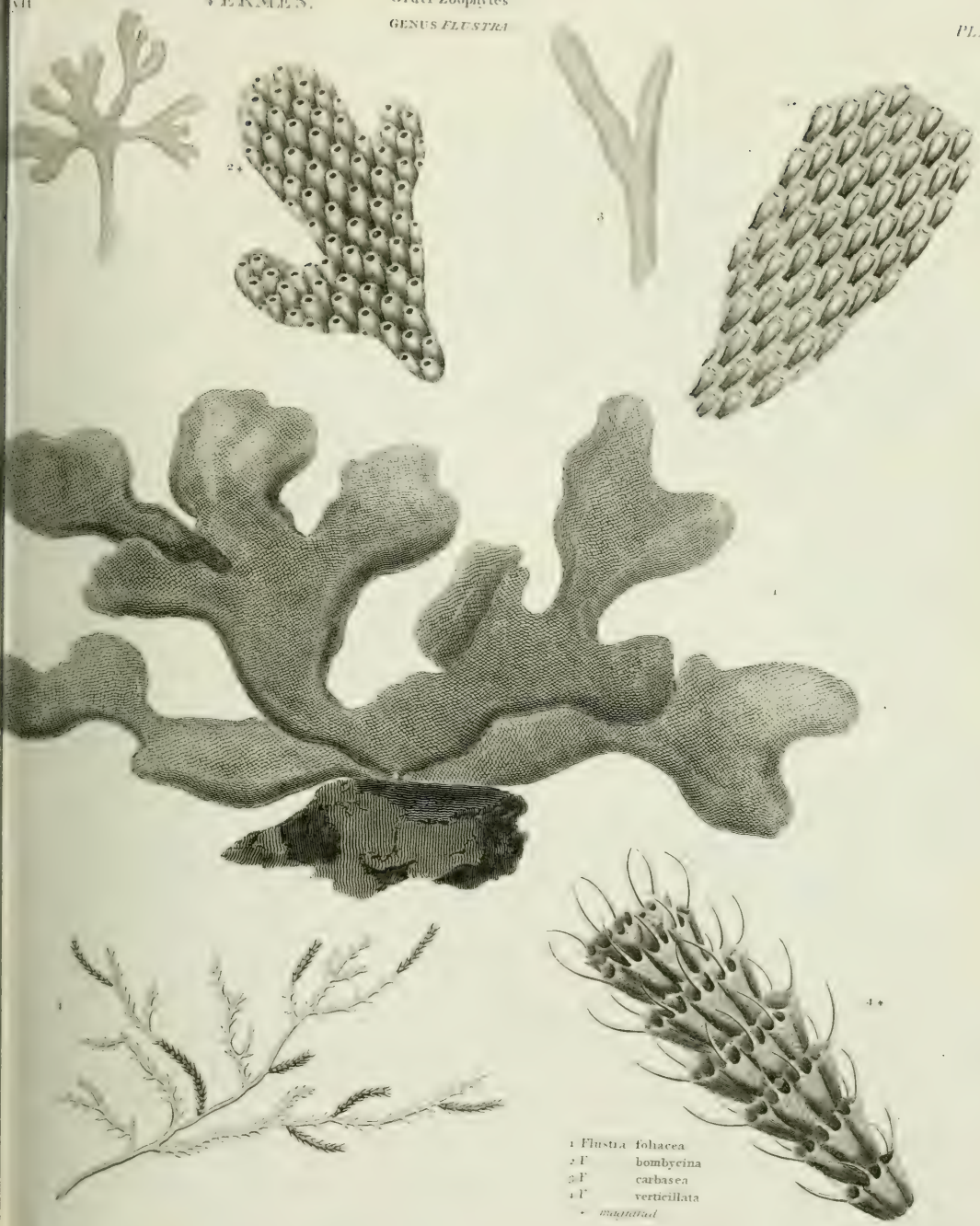


A. Gorgonoides

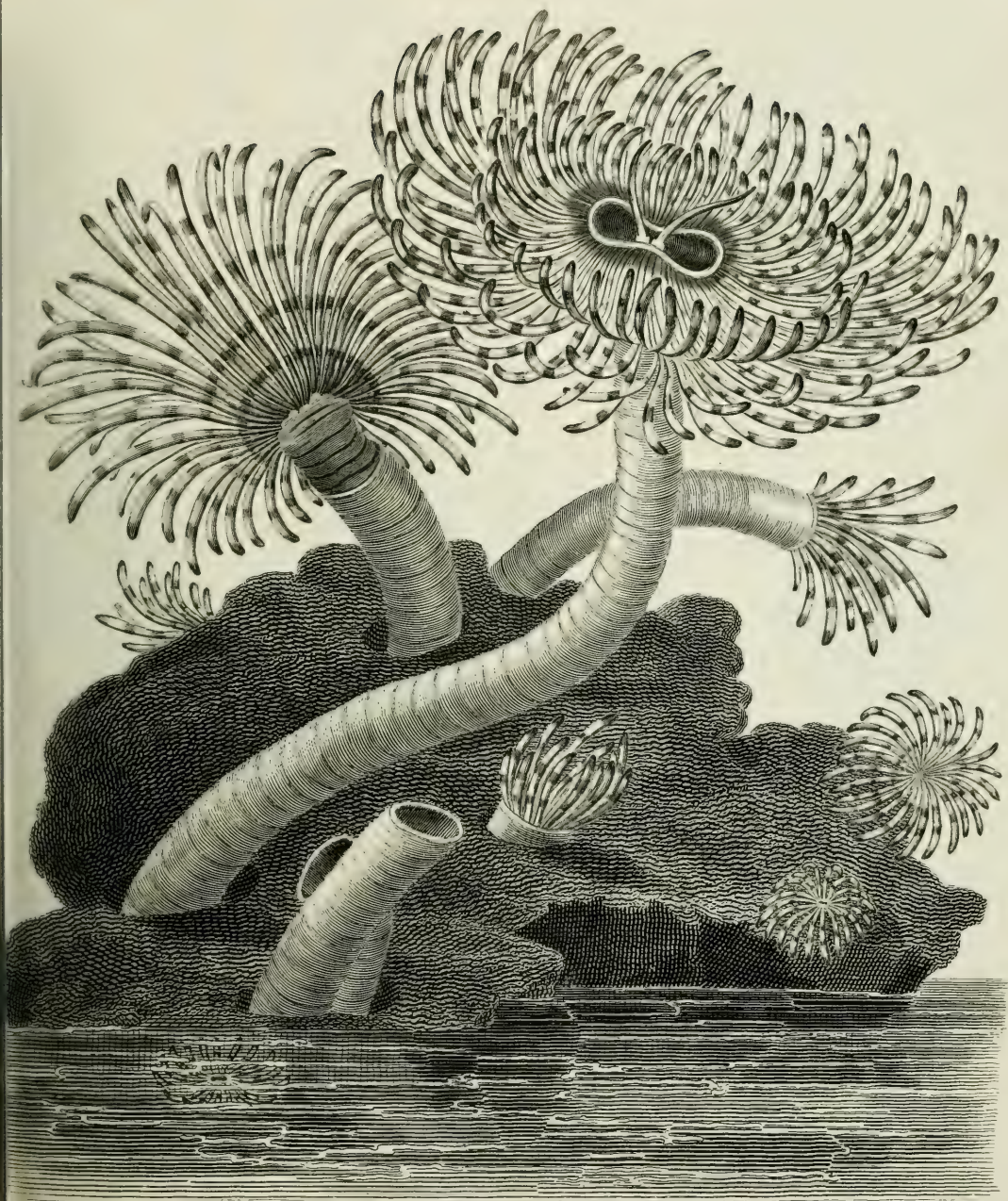


S. Tubulosa





1 Flustea foliacea
2 F. bombycina
3 F. carbasca
4 F. verticillata
5 magnifera



T. MAGNIFICA
(Magnificent Tubularia)

1. The Animal in its young state - 2. full grown (front view) expanding its tentacula - 3. back view - 4. partially retracted - 5. entirely retracted.

Published as the Act direct, May 1st 1899, by Longman, Hurst, Rees & Orme Paternoster Row

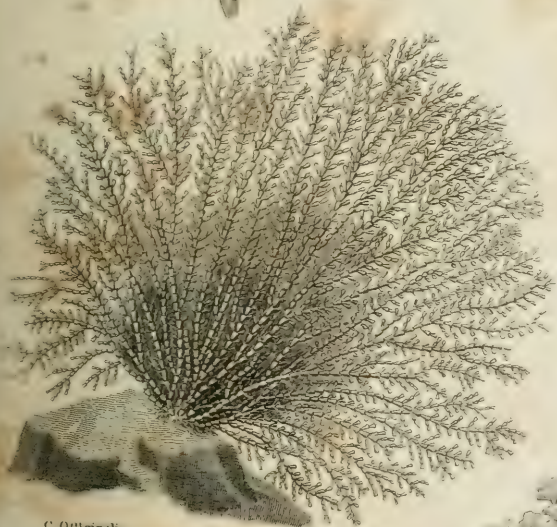
GENUS CORALLINA



C. Officinalis
marginata



C. incrassata



C. Officinalis



C. Corniculata
marginata



C. Squamata



C. Corniculata



C. Opuntia



C. Squamata
marginata



VERMES
Order Zoophytes.
GENUS SERTULARIA



Sertularia
futescens
quadridentata
pinnaster
filicula
multicaulis

Order Zoophytes.

Genus Hydra.

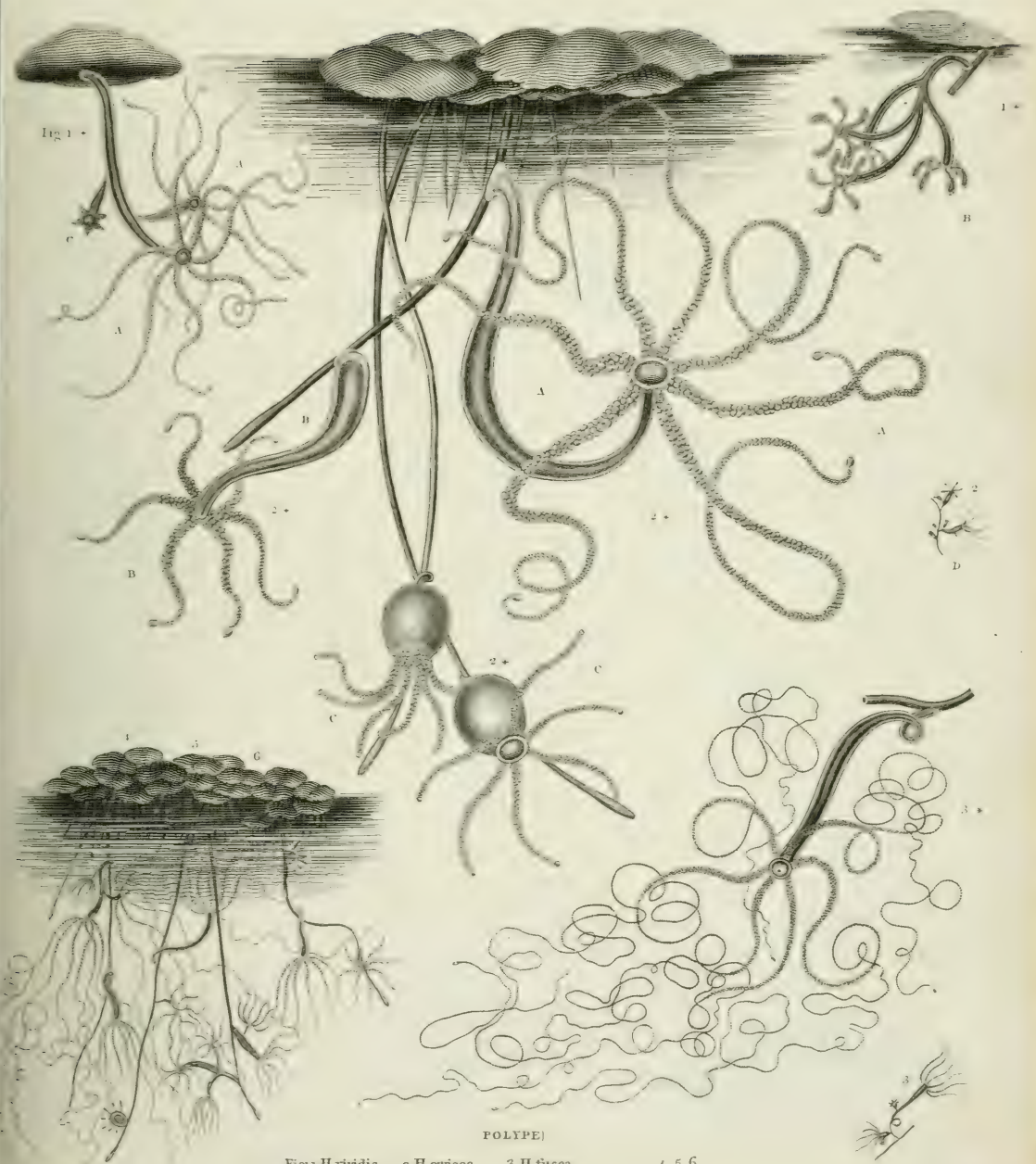


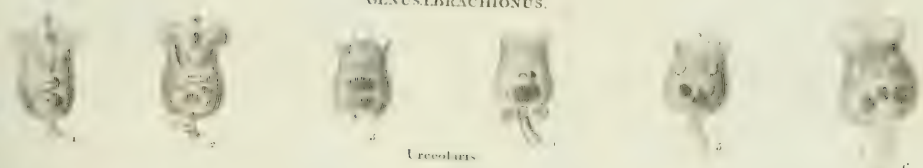
Fig: 1 *H. viridis* 2. *H. grisea* 3. *H. fusca* 4. 5. 6
 Green P. Grey P. Brown P. Clusters of the three species. nat size.

* magnitud. A. extended Body & tentacula. B. subretracted. C. contracted. D. young.

CLASS. VERMES.

Order. Infusoria.

GENUS. BRACHIONUS.



Ureolatus



Striatus



Lipos

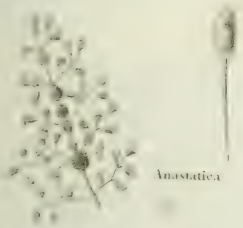


Uncumatus

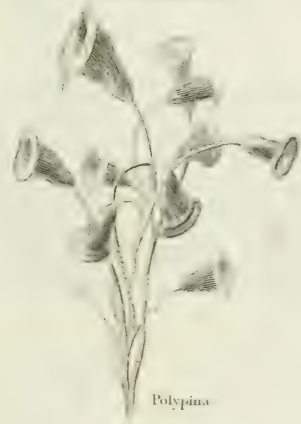


Quadridentatus

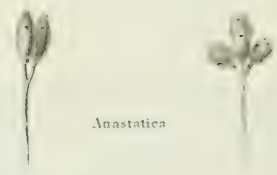
GENUS. VORTICELLA.



Anastatica



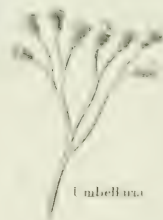
Polypina



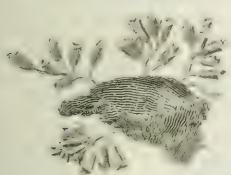
Anastatica



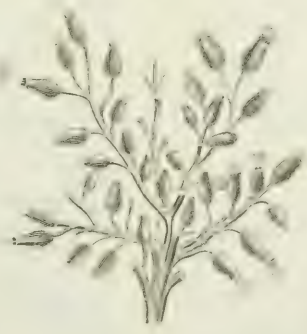
Pyraia



Umbellata



Digitalis

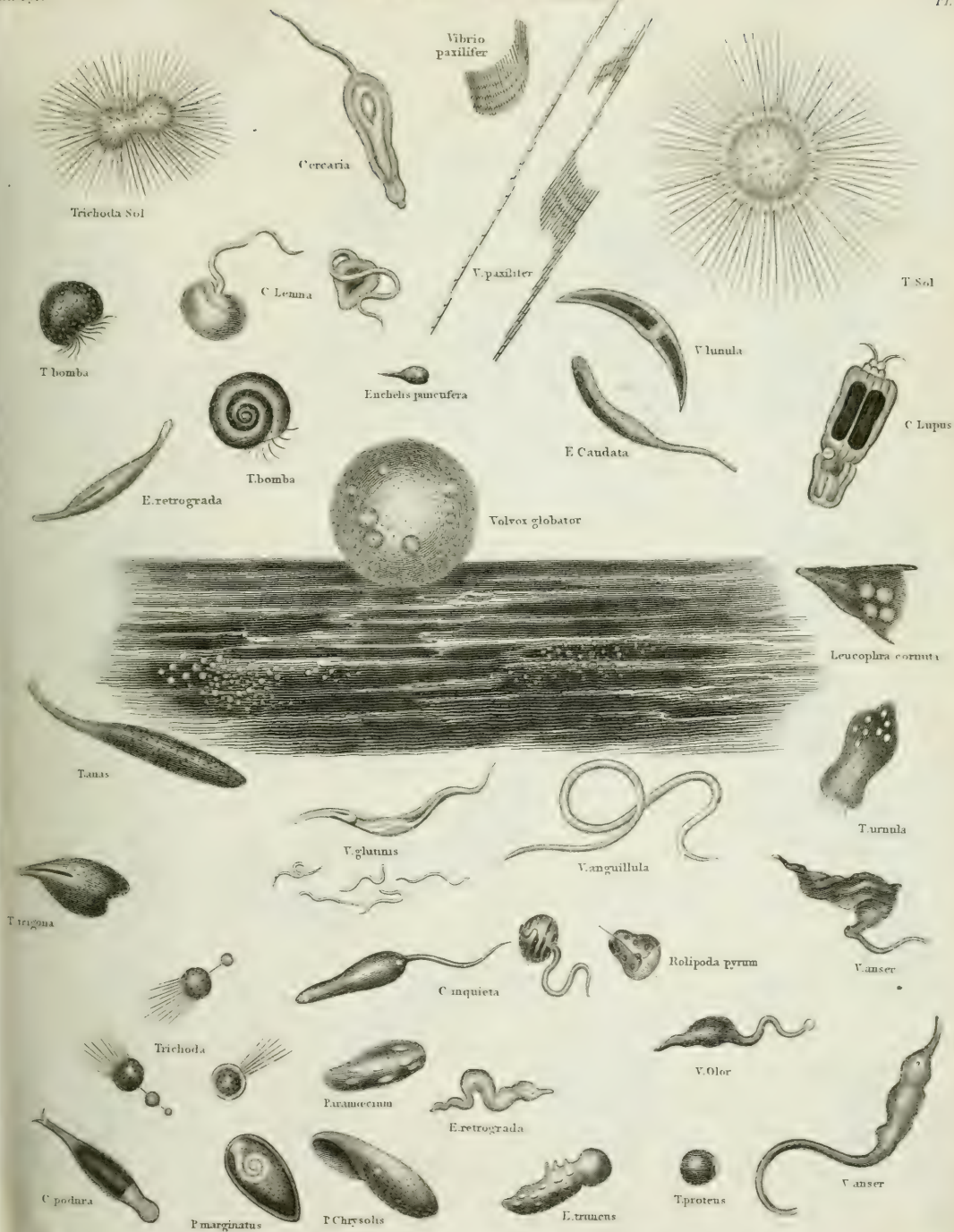


Opercularia

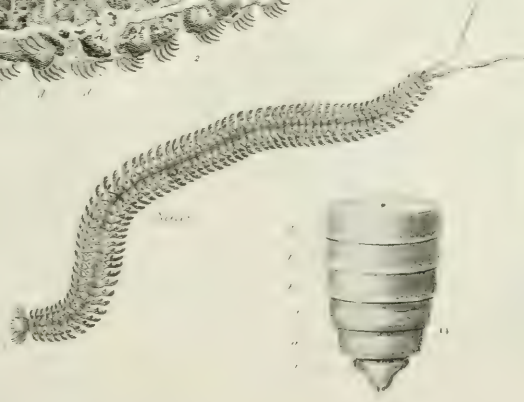
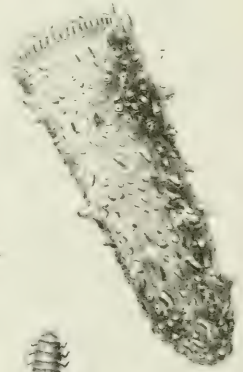
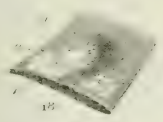
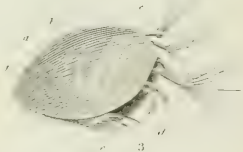
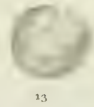


Nebulifera

VERMES INFUSORIAE.



LUMINOUS LIGHT. ANIMALS



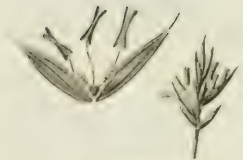
Classes.



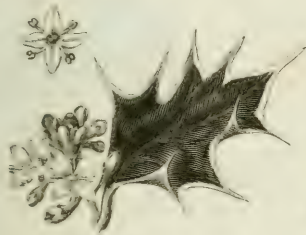
MONANDRIA



DIANDRIA



TRIANDRIA



TETRANDRIA



PENTANDRIA



HEXANDRIA



HEPTANDRIA



OCTANDRIA



ENNEANDRIA



DECANDRIA



DODECANDRIA



ICOSANDRIA

Classes.



POLYANDRIA



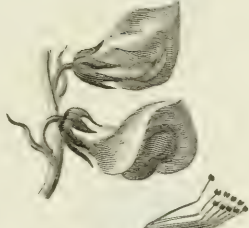
DIDYNAMIA



TETRADYNAMIA



MONADELPHIA



DIALDELPHIA



POLYDELPHIA



SYNGENESIA



GYNANDRIA



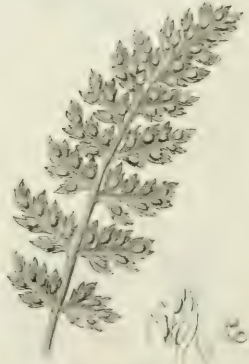
MONOECIA



DIOECIA

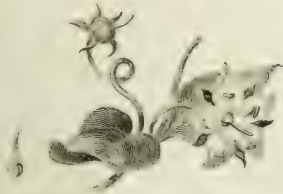


POLYGAMIA



CRYPTOGAMIA

Orders.



MONOGYNIA



DIGYNIA



TRIGYNIA



TETRAGYNIA



PENTAGYNIA



HEXAGYNIA



HEPTAGYNIA



DECAGYNIA



DODECAGYNIA



POLYGYNIA



GYMNOSPERMA



ANGIOSPERMA

Orders.



SILICULOSA



SILIQUOSA



POLYGNIMA AQUALIS



POLA SUPEREUA



POLA NECESSARIA



POLA FRUSTRAEA



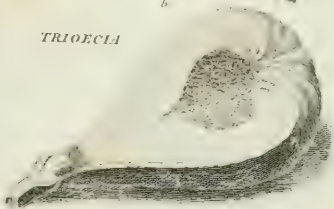
POLA SEGREGATA



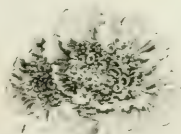
TRIOECIA



FILICES



MUSCI



ALGAE



HEPATICE



FUNGI



BOTANY.
FRINGES
of
MOSSES.



1. *Tetraphis*



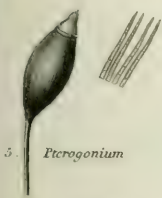
2. *Octoblepharum*



3. *Splachnum*



4. *Encalypta*



5. *Pterogonium*



6. *Grimmia*



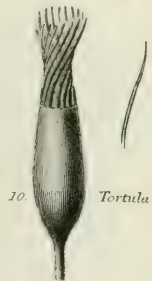
7. *Conostomum*



8. *Dicranum*



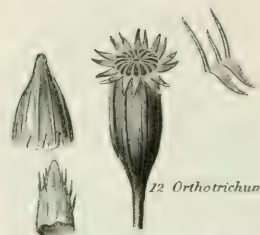
9. *Trichostomum*



10. *Tortula*



11. *Syntrichum*



12. *Orthotrichum*



13. *Neckera*



14. *Funaria*



15. *Barbatula*



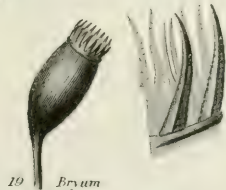
16. *B. villosa*



17. *Bartramia*



18. *Mnium*



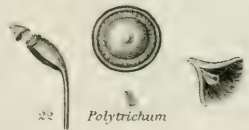
19. *Bryum*



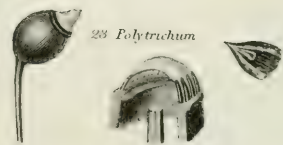
20. *Hypnum*



21. *Fontinalis*



22. *Polytrichum*



23. *Polytrichum*



AGARIC



BOLETUS



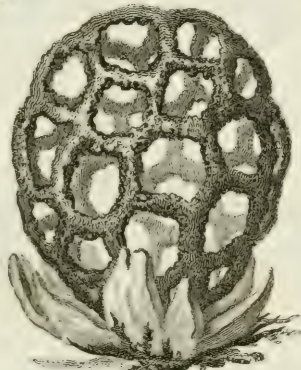
HYDNUM



PHALLUS



HELVELLA



CLATHRUS



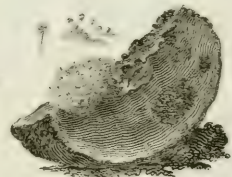
PEZIZA



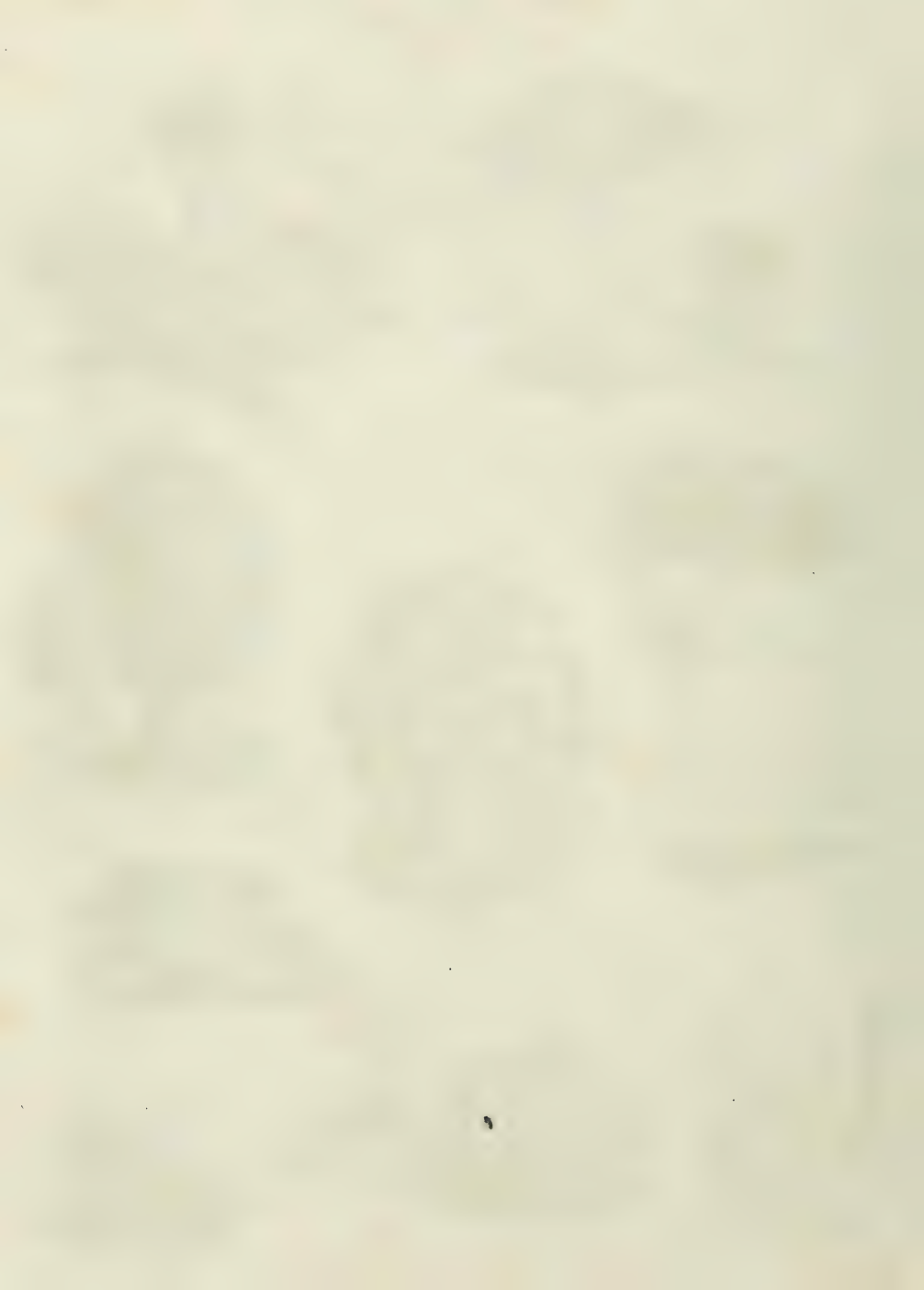
CLAVARIA



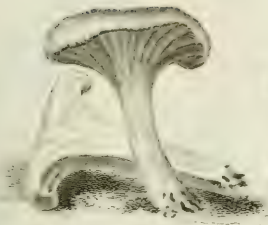
LYCOPERDON



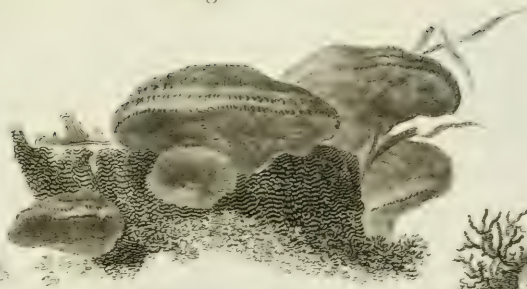
MUCOR



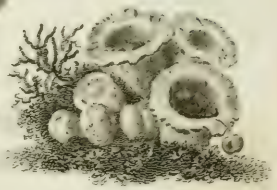
Fungi.



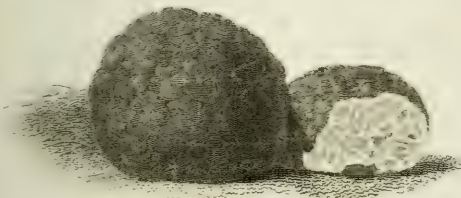
MERULIUS eburneus.



AURICULARIA rotata.



NIDULARIA campanulata.



TUBER cibarium.



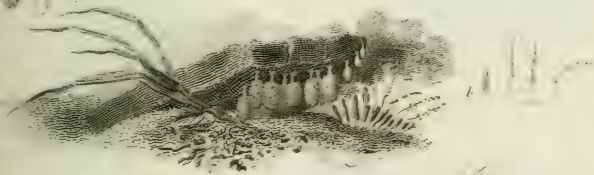
CYATHUS minutus.



c. SPILERIA digitata.



d. bombardica.



a. TRICHLA denudata

b. nuda.



UREDO segetum

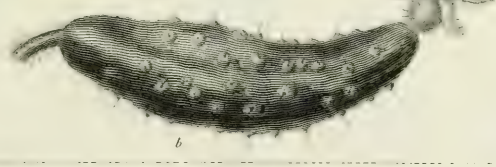
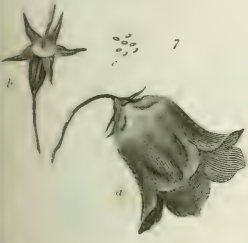
ÆCIDIUM anemones.



RHIZOMORPHA phosphorea.

Class I. BELL SHAPED.

Fig 1.



Class II. FUNNEL SHAPED.

Fig 1.

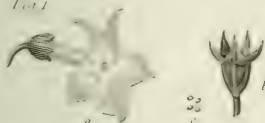


Class II. FUNNEL SHAPED Continued

Fig. 1



Fig. 1



Class III. PERSONATE

2

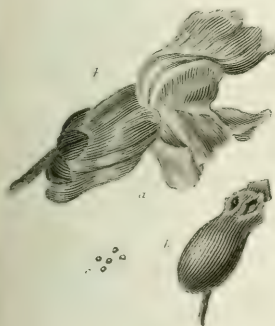


Fig. 1

Class IV. LABIATE

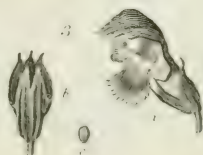
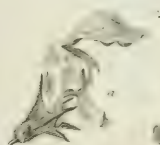
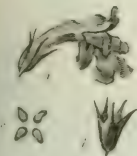


Fig. 1.



Fig. 1.

Class VI. ROSACEOUS.



Class VIII. CARYOPHYLLOUS.

Fig. 1.



Class VII. UMBELLITE.

Fig. 1.



Class IX. LILIACEOUS.

Fig. 1.



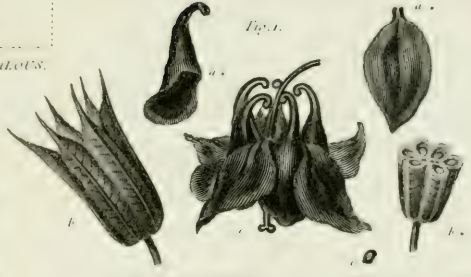
Class X PAPILLOXACEOUS.

Fig. 1.



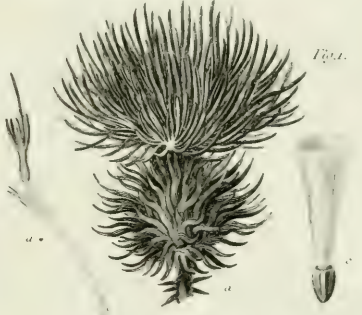
Class XI APOCALOUS.

Fig. 1.



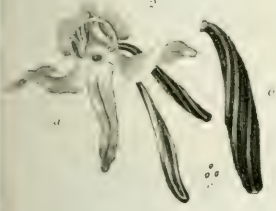
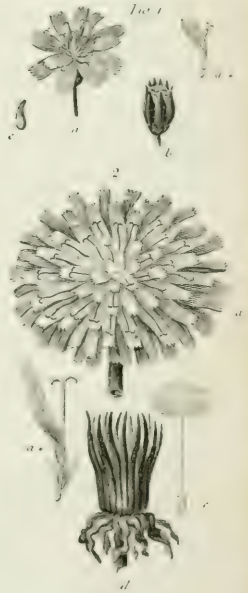
Class XII LEUCULOUS.

Fig. 1.



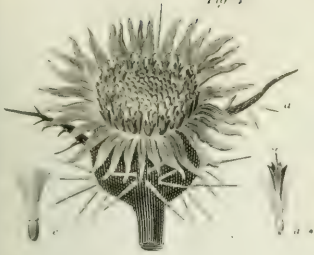
Class XIII SEMILEUCULOUS.

Fig. 1.



Illustrationes in Botanicis, Jussieu, Icones, Tab. 1, p. 1, 1793.

Fig. 5

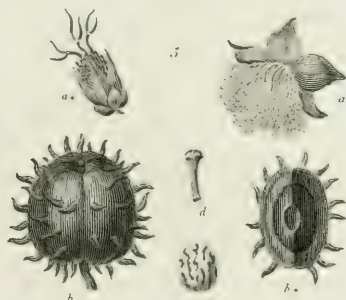
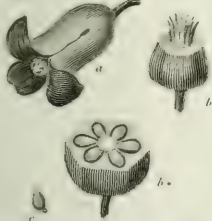


Class IV. RADIAL.



Class V. APETALOUS STAMINIFEROUS.

Fig. 1.





Class VIII. APETALOUS WITHOUT APPARENT FRUIT

Fig 1



TREES & SHRUBS.
Class VIII. APETALOUS.

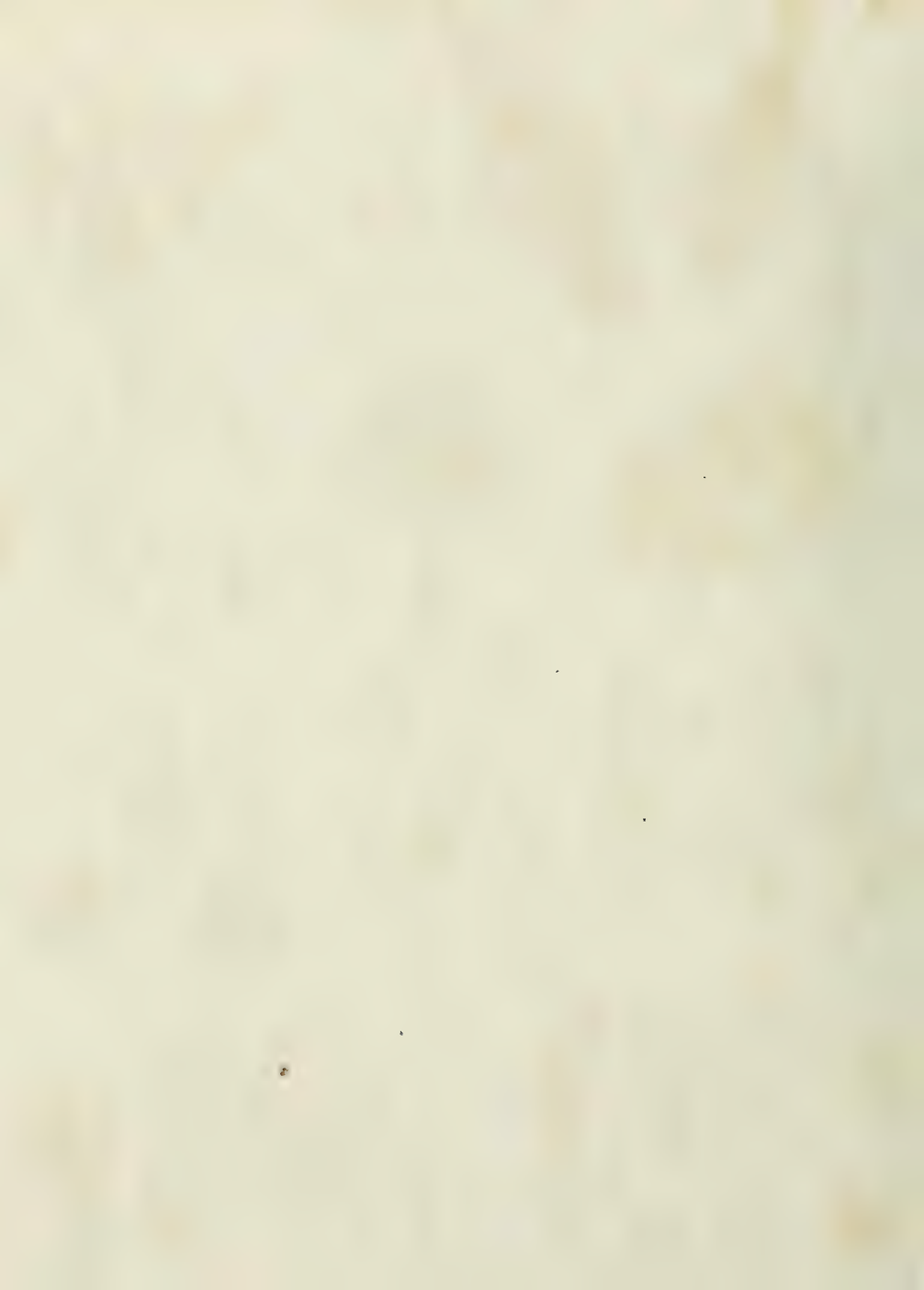
Fig 1



Class IX. AMENTACIOUS

Fig 1







Class. XX MONOPETILOUS



TREES and SHRUBS
Class XII ROSACEOUS

Fig 1

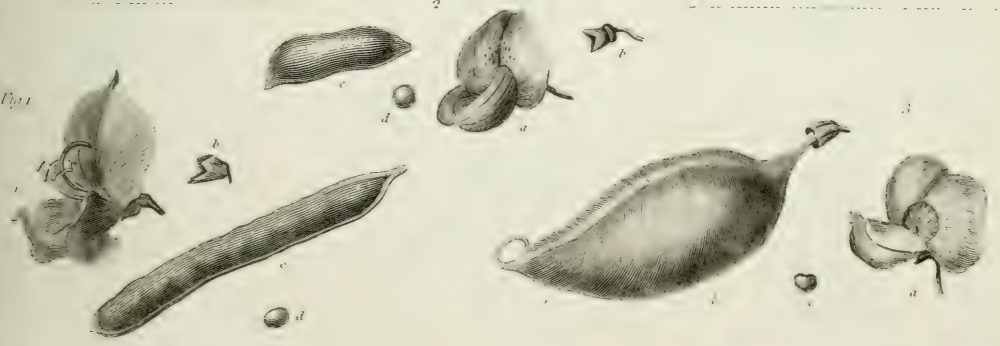
2



Class XIII PAPILIONACEOUS

2

Fig 1



Bark.

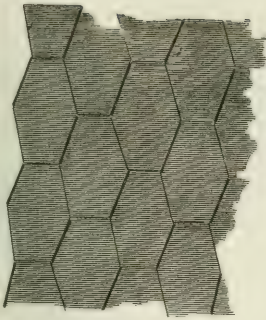


FIG. 2.

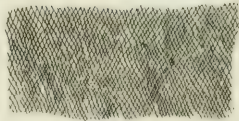


FIG. 11.

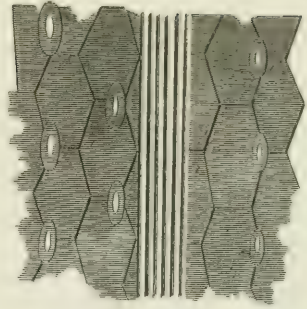


FIG. 3.

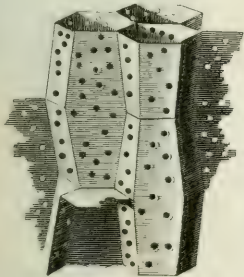


FIG. 5.

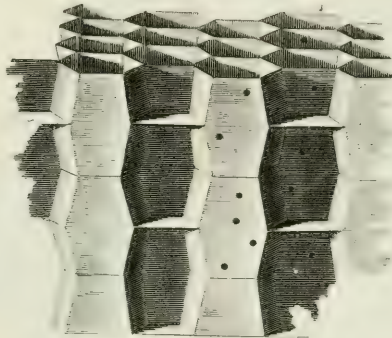


FIG. 4.

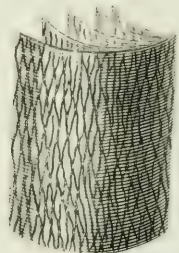


FIG. 7.



FIG. 9.

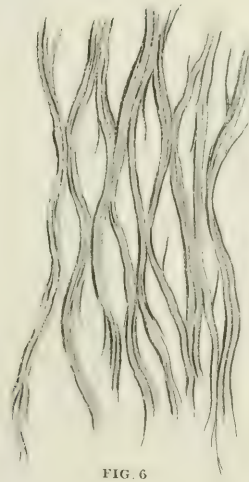


FIG. 6.

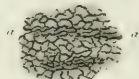


FIG. 1.



FIG. 10.



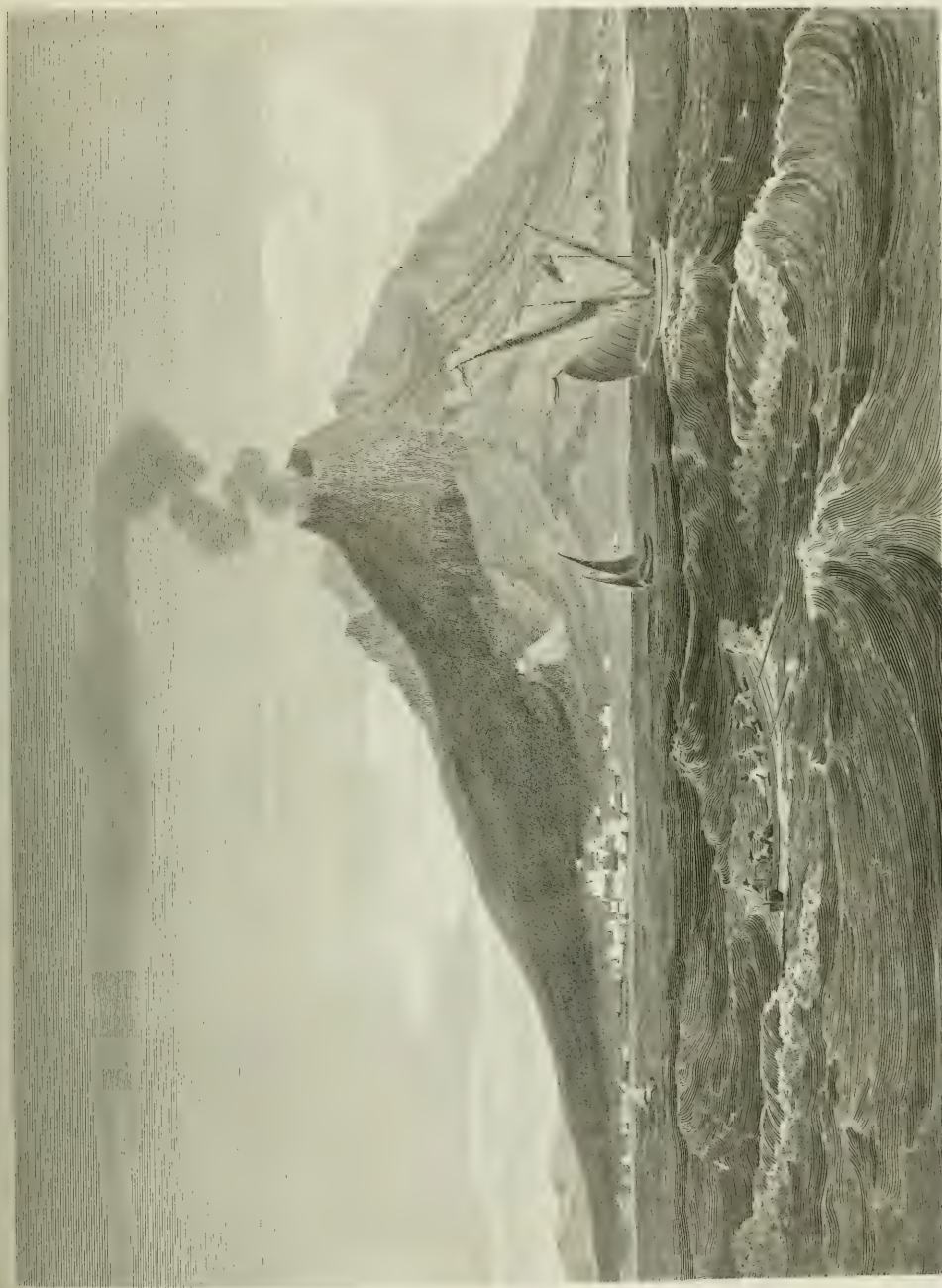
FIG. 8.

Plate I



Plate II





From an original sketch made in the year 1797, by R. Dippold Esq.

MOUNT VESUVIUS.

as seen from the Bay of Naples.

Published at the Art directors, Sept. 2, 1808, by Longman & Coes, Printers in Row.

Lowry sculp



From an original sketch made in the year 1797 by R. Dapper Esq.

THE CRATER OF MOUNT VESUVIUS.

Published by the Author, at the expense of the Government, by J. Johnson, St. Paul's Church-yard.

MINERALOGY.
BASALT.



See Mr. Chaney's *Improvement in Safety Lamps*,
as made for Mr. Freeman Esq. St. Lancaster, &c.
see INDEX before.

See Dep. *Double Draft Slip* *Trundle &c* in the *British Coal*.

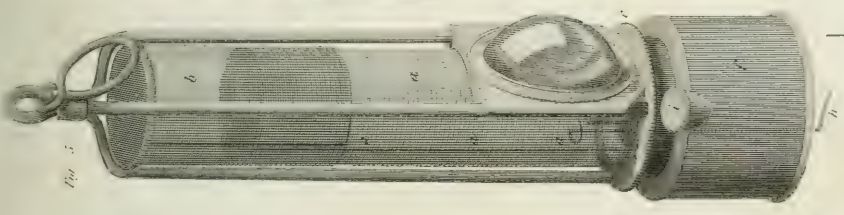


Fig. 3.



Fig. 1.

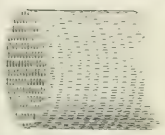


Fig. 6.

Dr. Chaney's Safety Lamps.

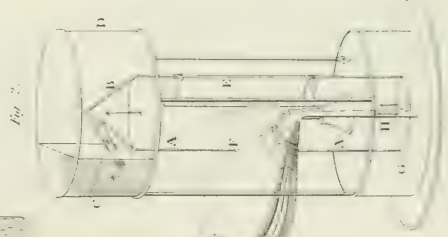


Fig. 7.

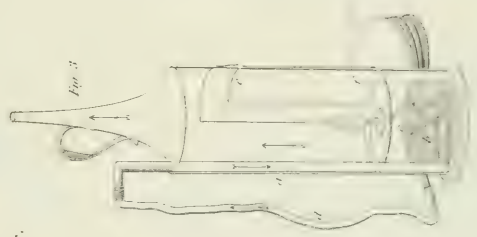


Fig. 3.

Dr. Chaney's Steam Safety Lamp.

Fig. 4.



Fig. 1.



Fig. 2.

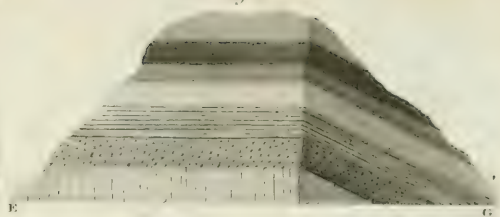


Fig. 3.

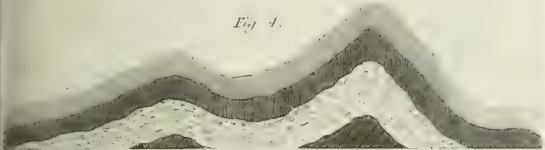


Fig. 3.

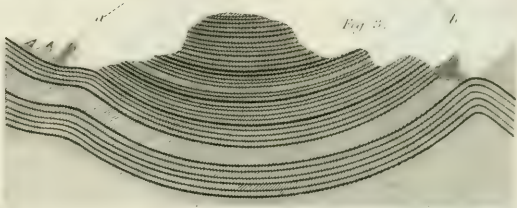


Fig. 5.



Fig. 4.



Fig. 7.

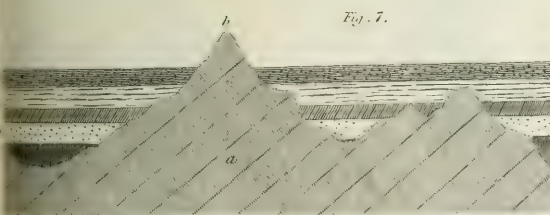
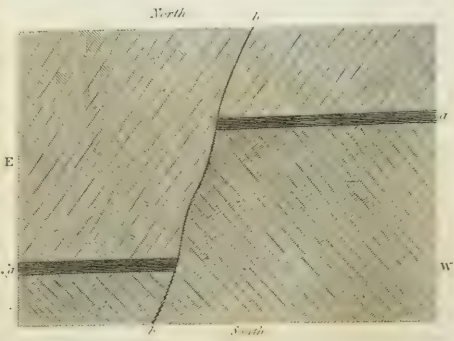
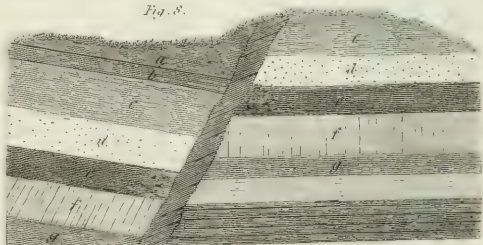
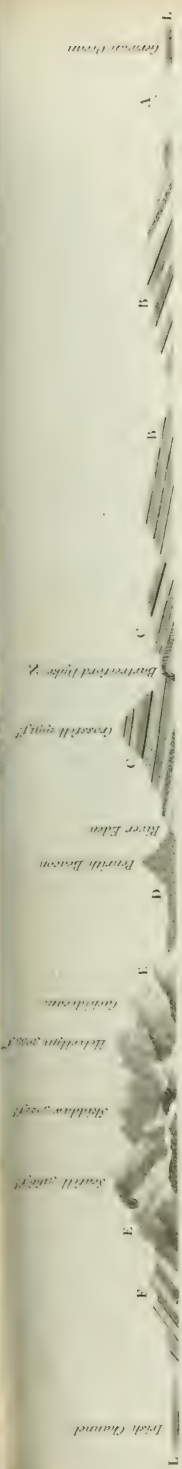


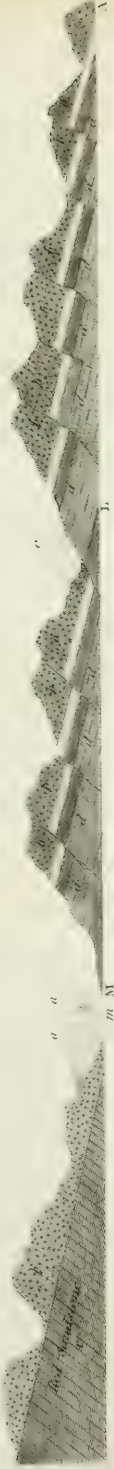
Fig. 8.





A Sketch of the Arrangement of the Strata through England by R. Bakewell. Lat. 51° 35' to 51° 45'

Fig. 2.



A Section of the Strata through part of Dorsetshire & Devonshire by R. Bakewell.

Fig. 3.

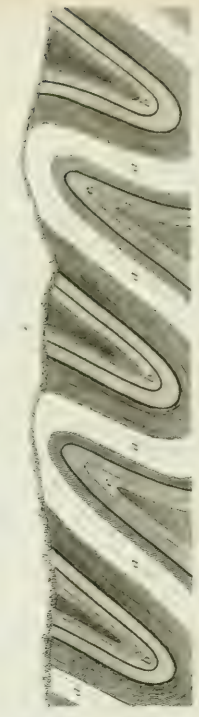


Fig. 4.

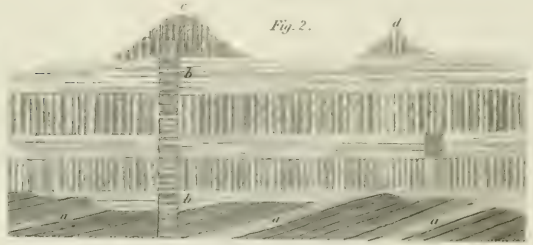
Fig. 5.



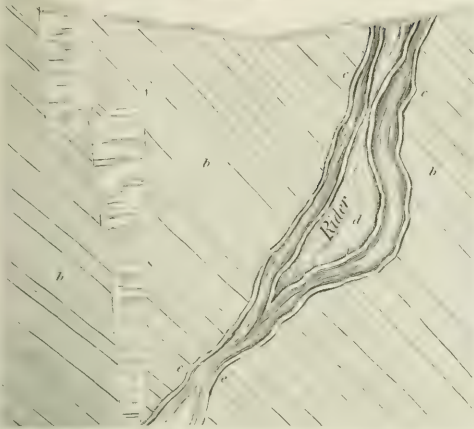
Fig. 6.



Columnar and amorphous Basalt intersected by Basaltic Dykes

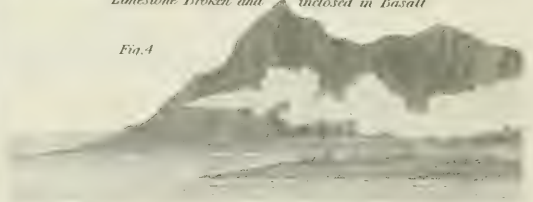


Metallic Veins

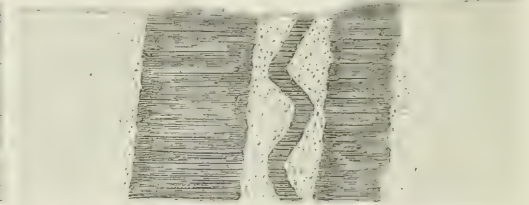
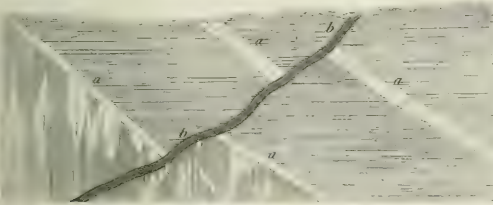


Limestone Broken and enclosed in Basalt

Fig. 4



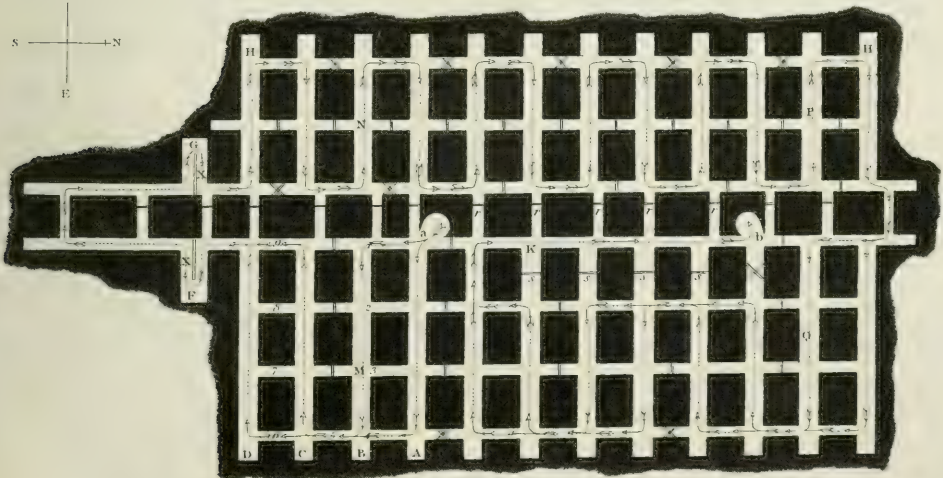
Whinstone Dykes or Basaltic Veins passing through

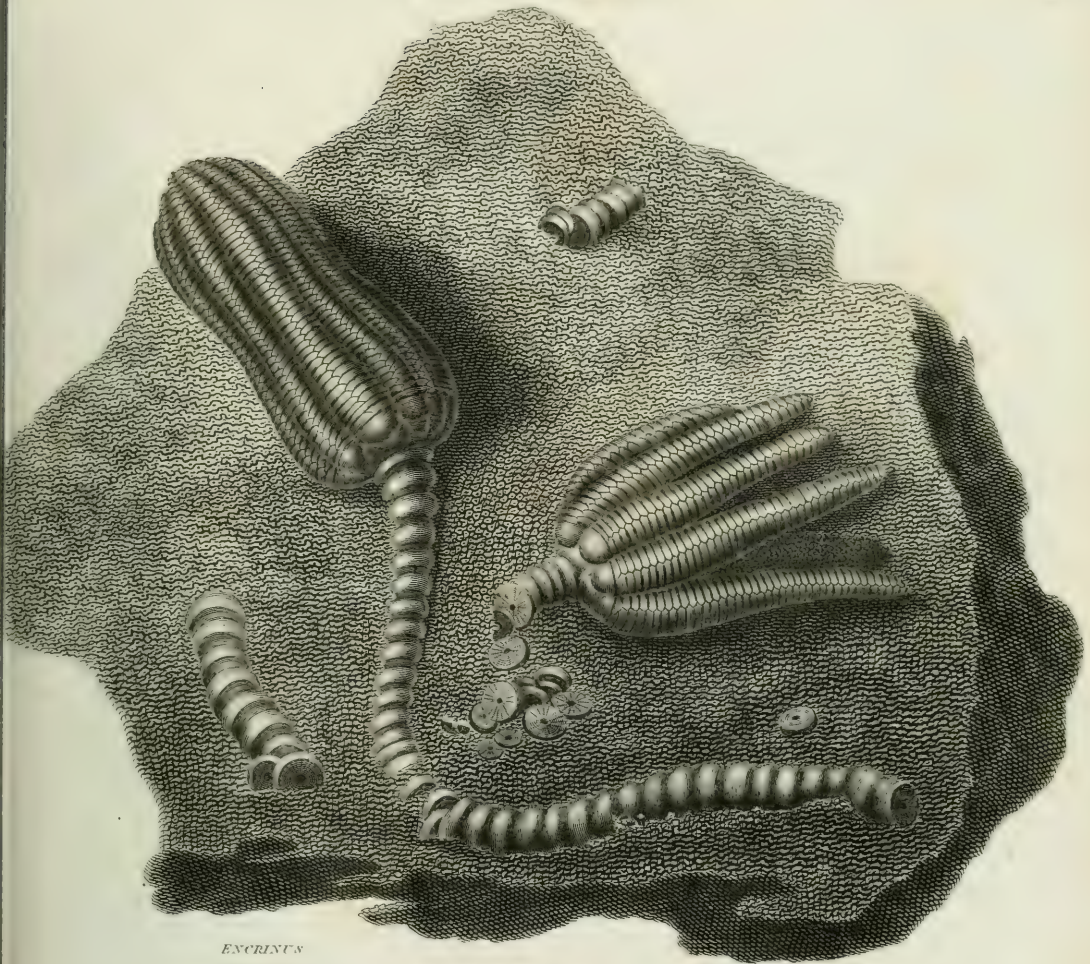


Intersection of Metallic Veins

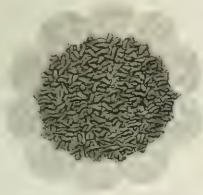
Chalk and Changing it into Marble

Plan of a Coal Mine and mode of Ventilating





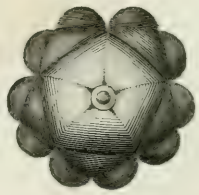
ENCRINUS
Stone Lily



*Transverse Section of the
Lily Head.*



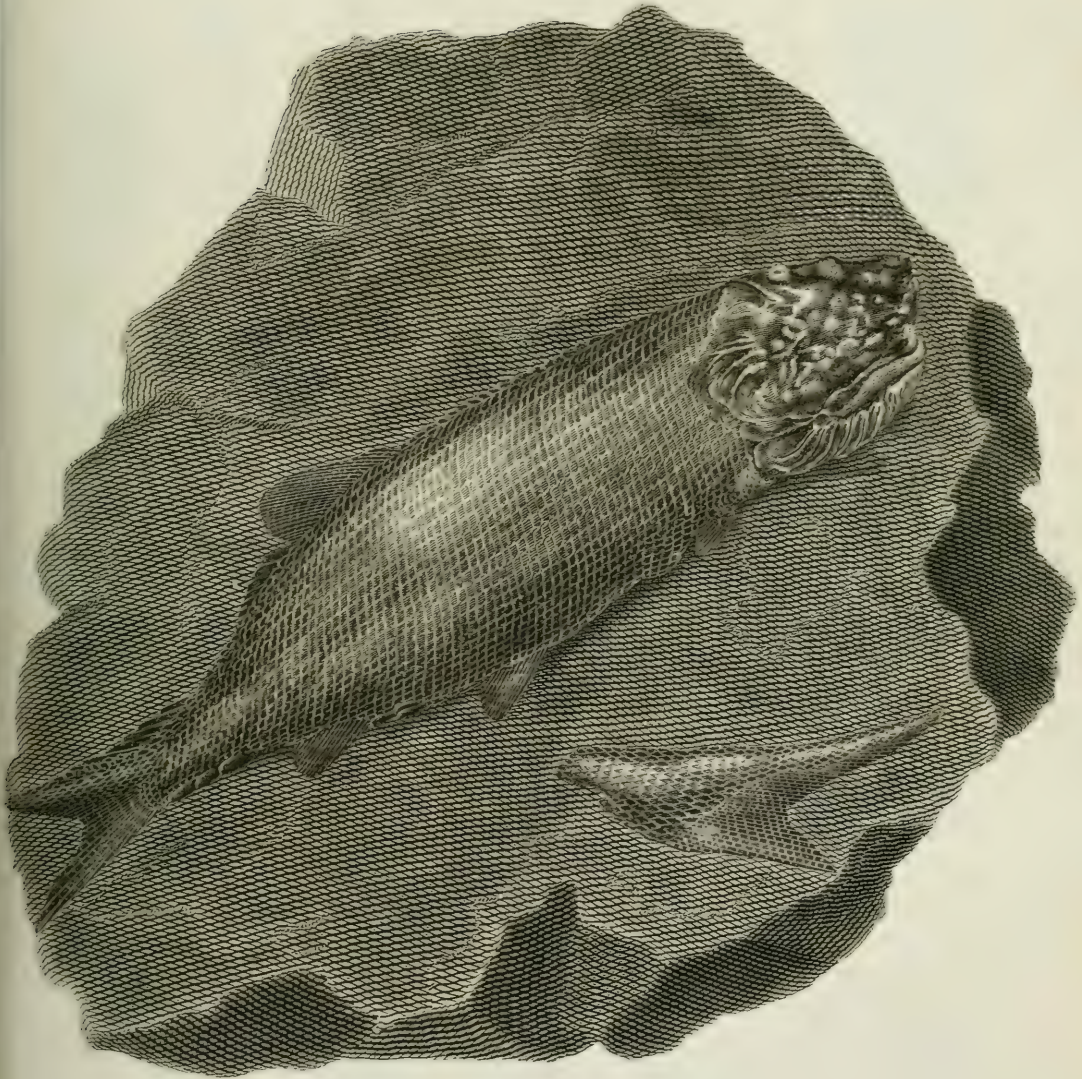
L.II^d broken transversely.



Bottom of the Lily Head

ICHTHYOLITE.

Ichthyological remains.



Impressions of Fishes on Sandstone, from the Tertiary of Germany.

Published at the Art Union, No. 1, Pall Mall, London.

ADAMANTINE SPAR

Fig 1.



Fig 2



Fig 3

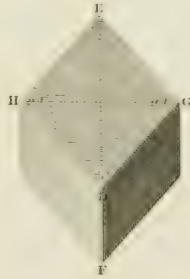


Fig 4



Fig 5

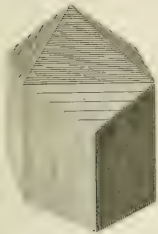
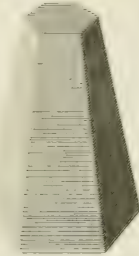


Fig 6



Fig 7



FELSPAR

Fig 8.

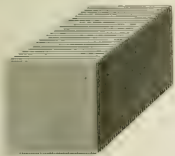


Fig 9



Fig 10.



Fig 11

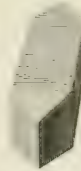


Fig 12



Fig 13.



Fig 14

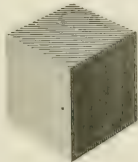


Fig 15

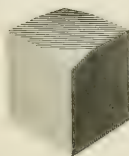
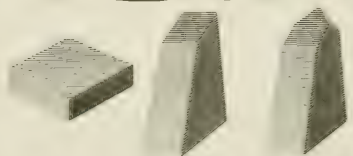
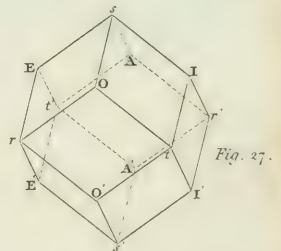
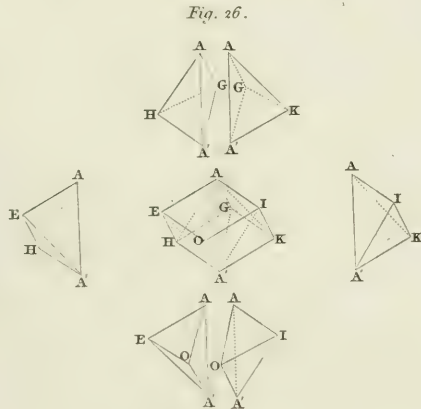
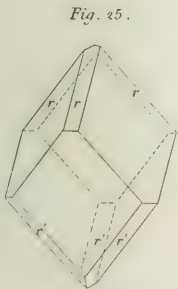
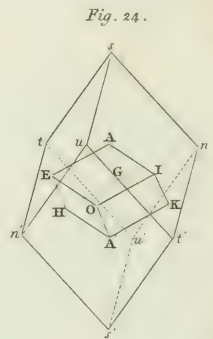
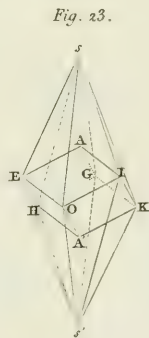
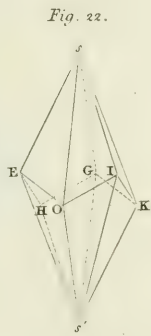
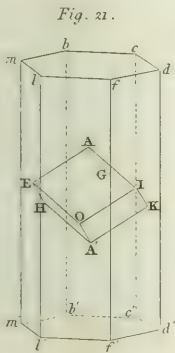
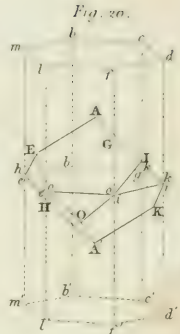
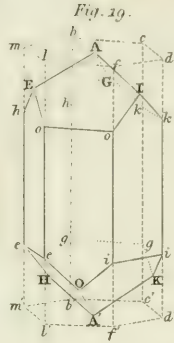
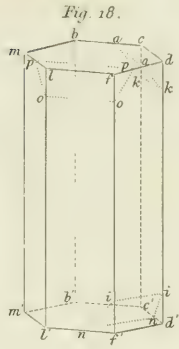


Fig 16.



CRYSTALLIZATION, THEORY OF.



CRYSTALLIZATION, *Theory of.*

Fig. 28.

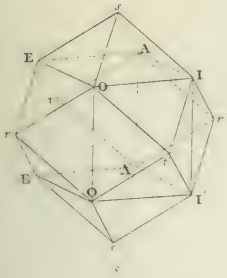


Fig. 30.

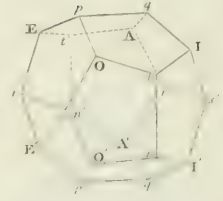


Fig. 35.

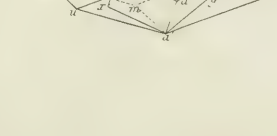
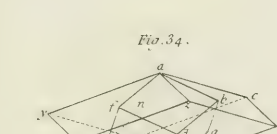
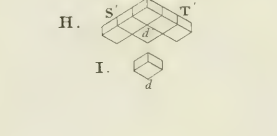
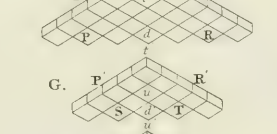
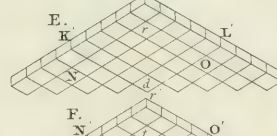
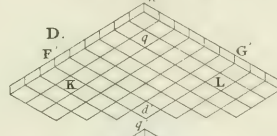
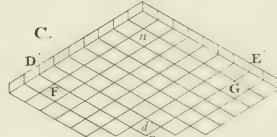
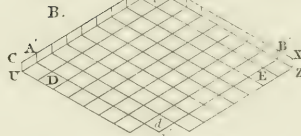


Fig. 31.

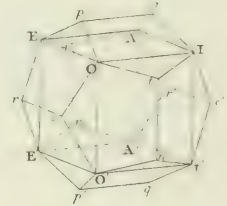


Fig. 32.

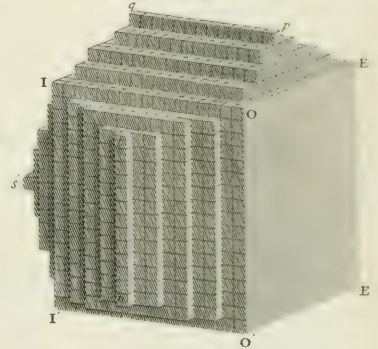


Fig. 29.

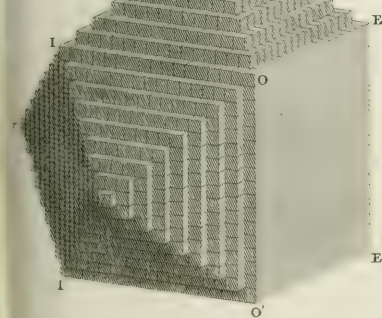


Fig. 34.

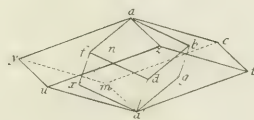
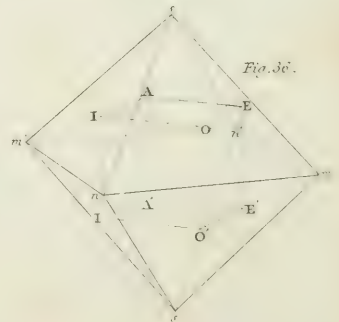


Fig. 33.



CRYSTALLIZATION, THEORY OF.

Fig. 39.

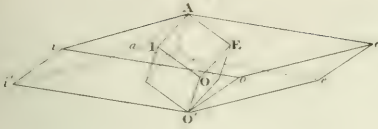


Fig. 38.

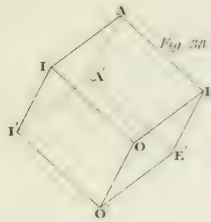


Fig. 37.



Fig. 47.

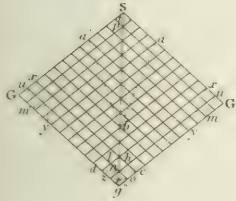


Fig. 46.

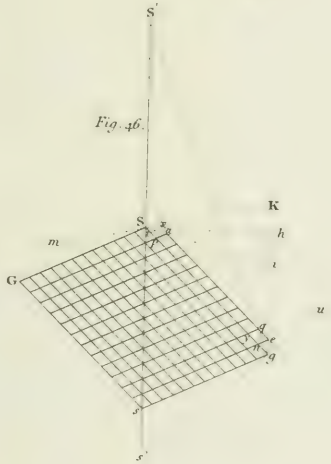


Fig. 45.

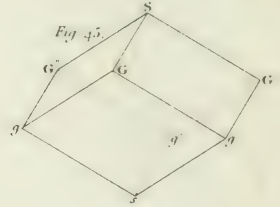


Fig. 44.

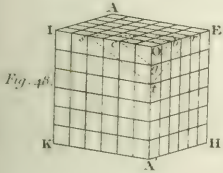


Fig. 49.

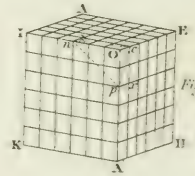


Fig. 53.

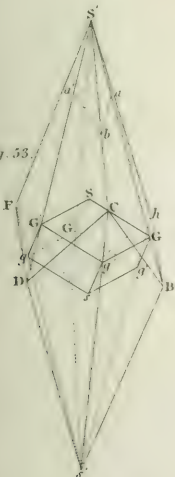


Fig. 52.

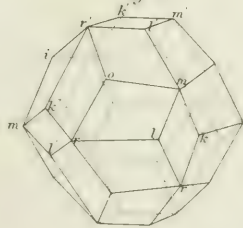


Fig. 51.

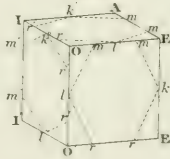


Fig. 50.

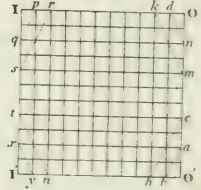


Fig. 55.

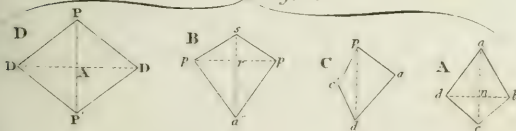


Fig. 53.

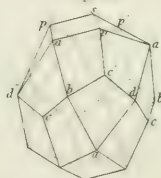
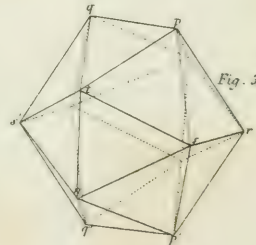


Fig. 54.



CRYSTALLIZATION, THEORY OF.

Fig. 56

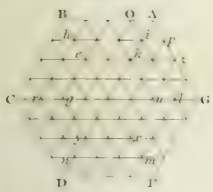


Fig. 57

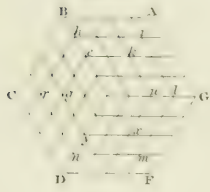


Fig. 58

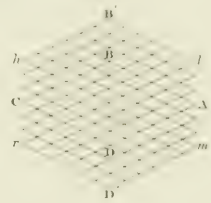


Fig. 59



Fig. 60

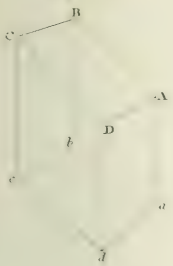


Fig. 61



Fig. 62



Fig. 63

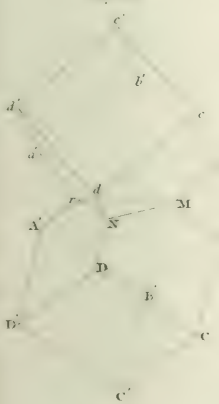


Fig. 64

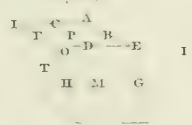


Fig. 65

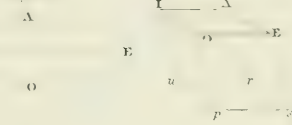


Fig. 67

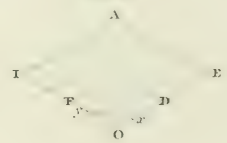


Fig. 68



Fig. 69

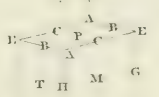


Fig. 70

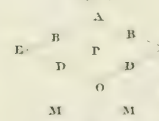


Fig. 71

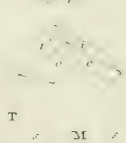


Fig. 72

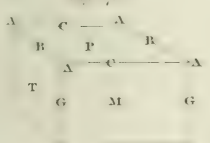


Fig. 73

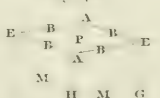


Fig. 74

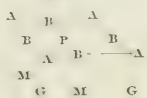


Fig. 75

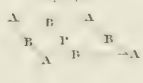
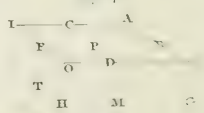
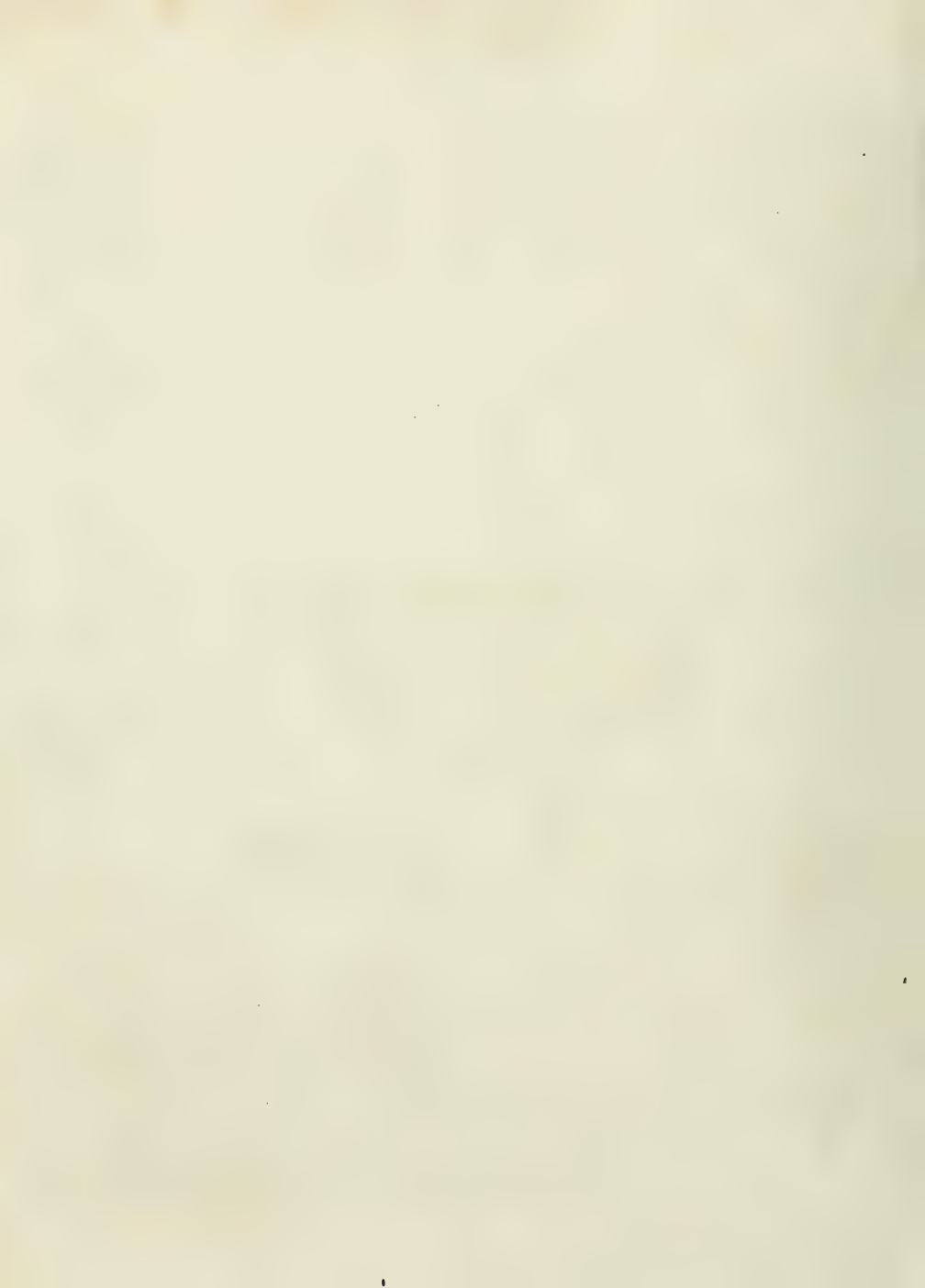
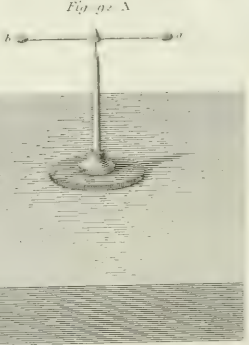
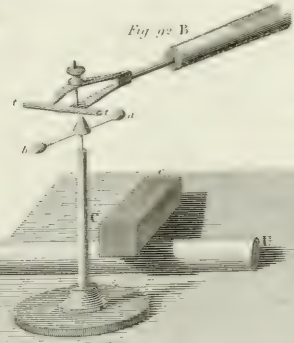
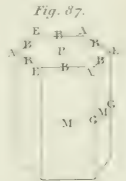
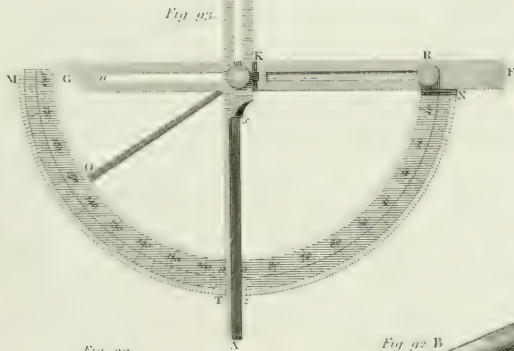
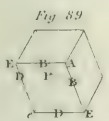
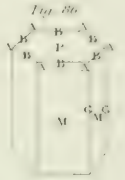
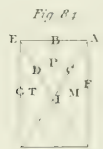
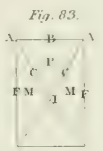
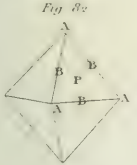
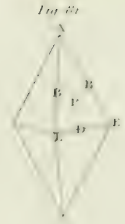
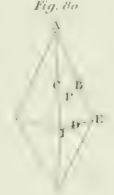
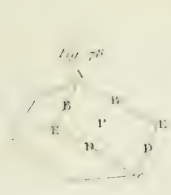
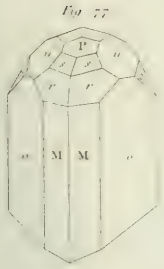


Fig. 76





CRYSTALLIZATION, THEORY OF.



see Mineralogy Appendix.

Cube. Fig. 1.



Rhomb. Fig. 2.



Fig. 3.

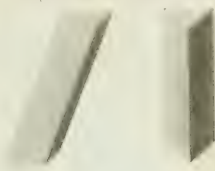


Fig. 5.



Varieties of the Prism.

Fig. 4.



Pyramid.



Fig. 7.



Table.

Fig. 8.

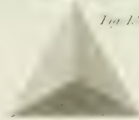


Double six sided Pyramid. Fig. 14.



Tetrahedron

Fig. 13.



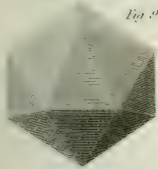
Lens

Fig. 11.



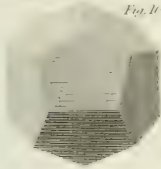
Icosahedron

Fig. 9.



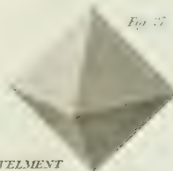
Pentagonal Dodecahedron

Fig. 10.



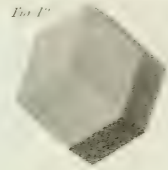
Regular Octahedron.

Fig. 12.



Rhomboidal Dodecahedron.

Fig. 1*



TRUNCATION

BEVELMENT

On the Angles.

Fig. 16.



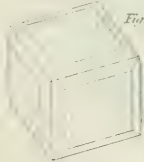
On the Edges.

Fig. 17.



On all the Edges.

Fig. 18.



On all the lateral Edges.

Fig. 19.



Fig. 21.



On the Angles.

Fig. 20.



ACUMINATION

The Acuminating Planes.

On the lateral edges.

Fig. 20.



At each angle set on the lateral planes.



Fig. 21.

On the lateral planes.

Fig. 22.



On the lateral angles.

Fig. 23.



On the lateral planes.

Fig. 24.



On the alternating lateral planes.

Fig. 25.



On the lateral edges.

Fig. 26.



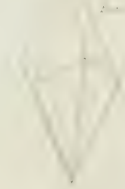
Double eight sided pyramid four planes at each extremity set on the alternate lateral edges

Fig. 27.



Double six sided Pyramid with the planes joined obliquely or Metastatic Crystal.

Fig. 28.



MINING

Fig. 1.

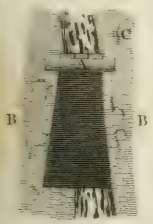


Fig. 2.

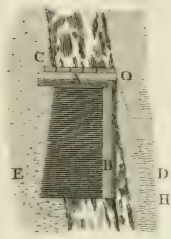


Fig. 3.

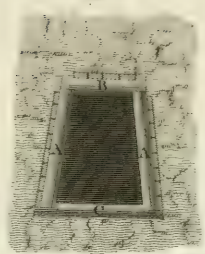


Fig. 4.

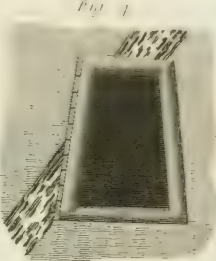


Fig. 5.



Fig. 6.

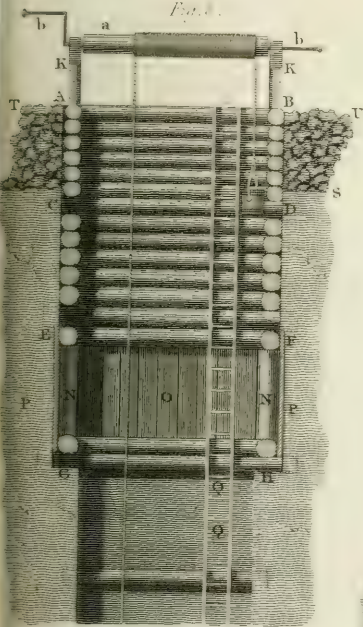


Fig. 7.

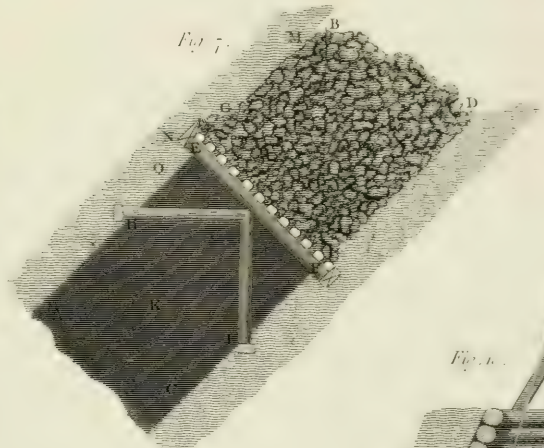


Fig. 8.

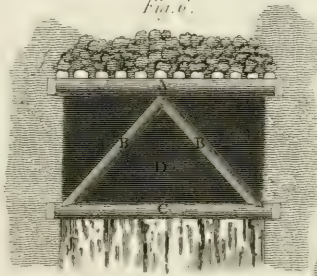


Fig. 9.

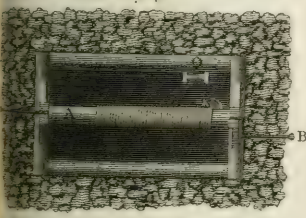
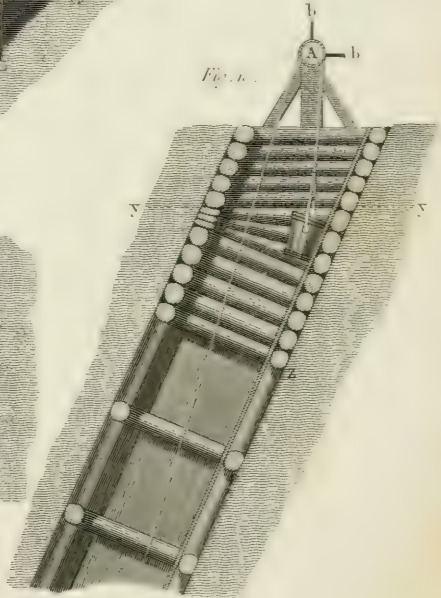
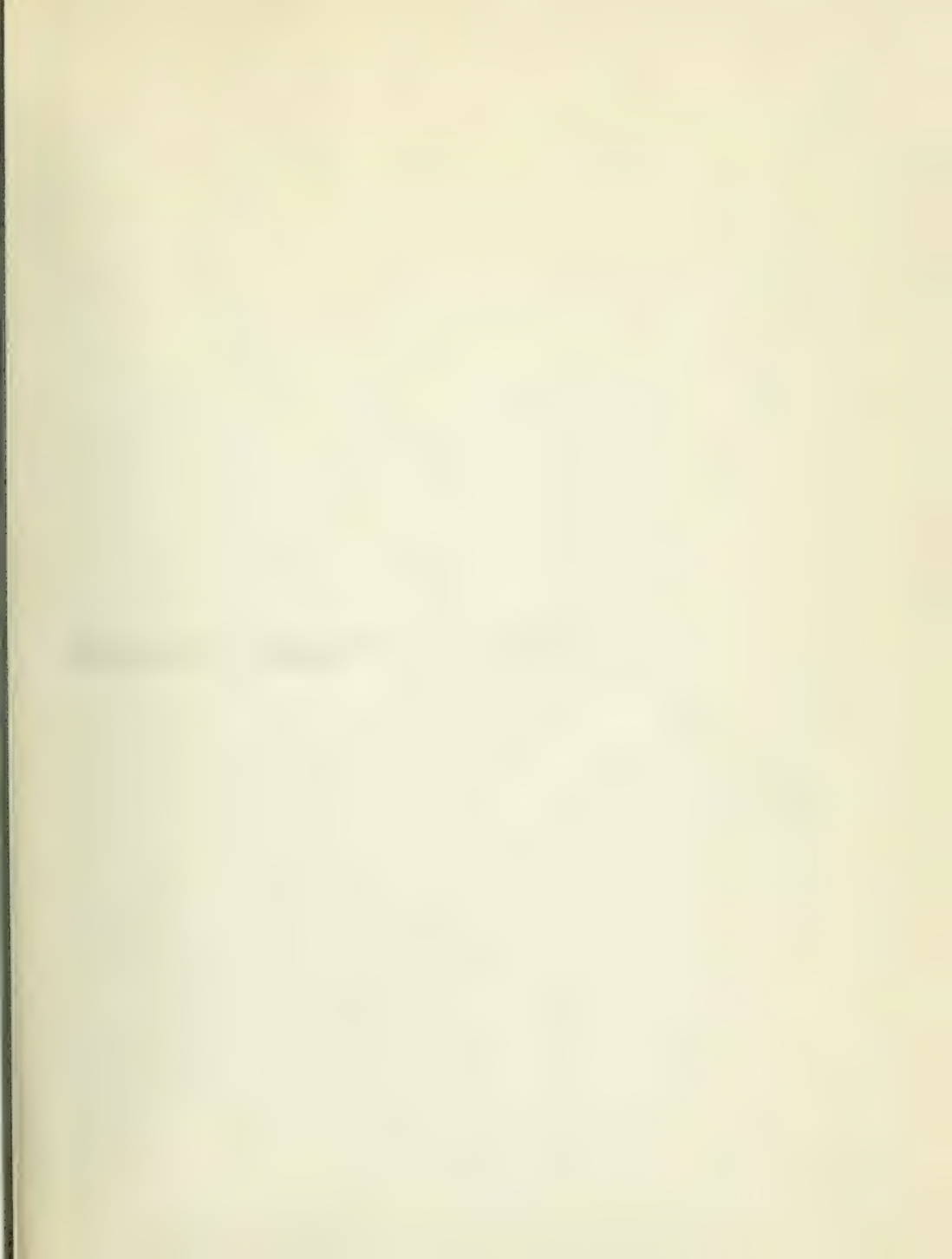


Fig. 10.










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