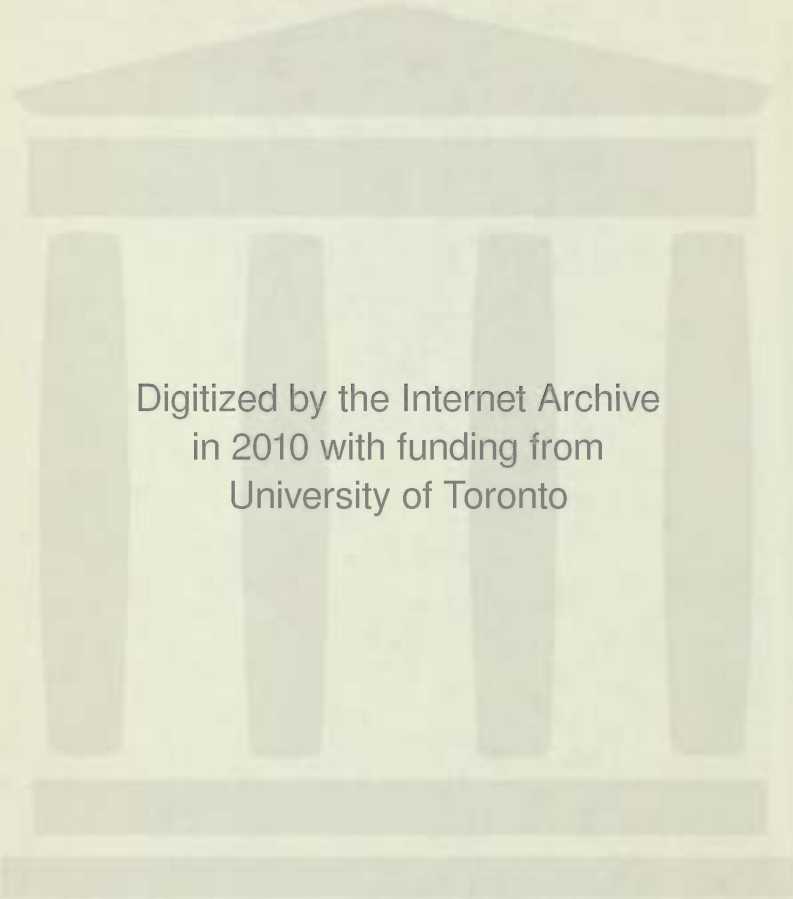


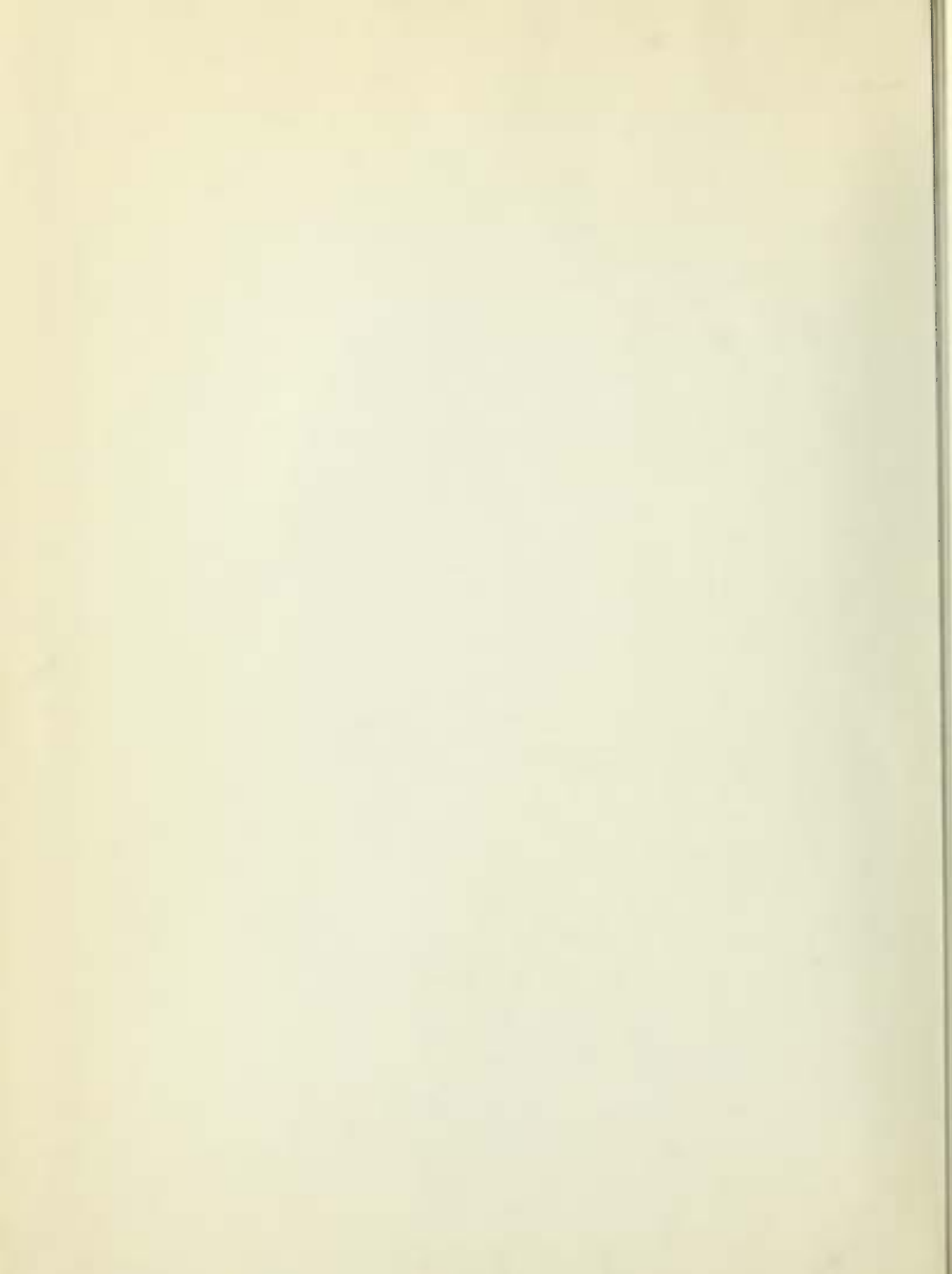


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11

104

CYCLOPÆDIA

THE  
**CYCLOPÆDIA;**  
OR,  
**Universal Dictionary**  
OF  
**ARTS, SCIENCES, AND LITERATURE.**

PLATES. VOL. V.  
NATURAL HISTORY.

CYCLOPEDIA

OF THE

ARTS AND MANUFACTURES

OF GREAT BRITAIN

AND IRELAND



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.

---

ILLUSTRATED WITH NUMEROUS ENGRAVINGS,  
BY THE MOST DISTINGUISHED ARTISTS.

---

PLATES. VOL. V.  
NATURAL HISTORY.

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LONDON:

PRINTED FOR LONGMAN, HURST, REES, ORME, & BROWN, PATERNOSTER-ROW,  
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1820.

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# QUADRUPEDS.

CLASS I. MAMMALS — ORDER PRIMATES.

Genus SIMIA — (see page 141.)



1 ORANG UTANG.                      2 CHIMPANZEE                      3 BABOON APE                      7 RED TAILED APE  
 2 CHESNUT UTANG.                      4 LONG ARMED APE                      8 PIGMY APE                      8 STRAITED APE

Published by the Author, Messrs. G. & J. Longman & Co. Royal Exchange Alley, London.



QUADRUPEDS.

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



1. *L. Dodje Tarsier* — 2. *L. Ecaudatus Taillefs Maucuco*. — 3. *L. Murinus Mirine Lemur*. — 4. *L. Catta Ring-tail Maucuco*. — 5. *L. Tardigradus Loris*.  
6. *L. Volans Flying Lemur. (Galeopithecus rufus Audela)*



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. 101 65/2





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 paradoxus*. Duck billed *Ornythorinchus*.

*Published according to the original Figures by the Author of the Engraving.*



QUADRUPEDS.

MAMMALIA GENUS MANIS GENUS DASYPUS.

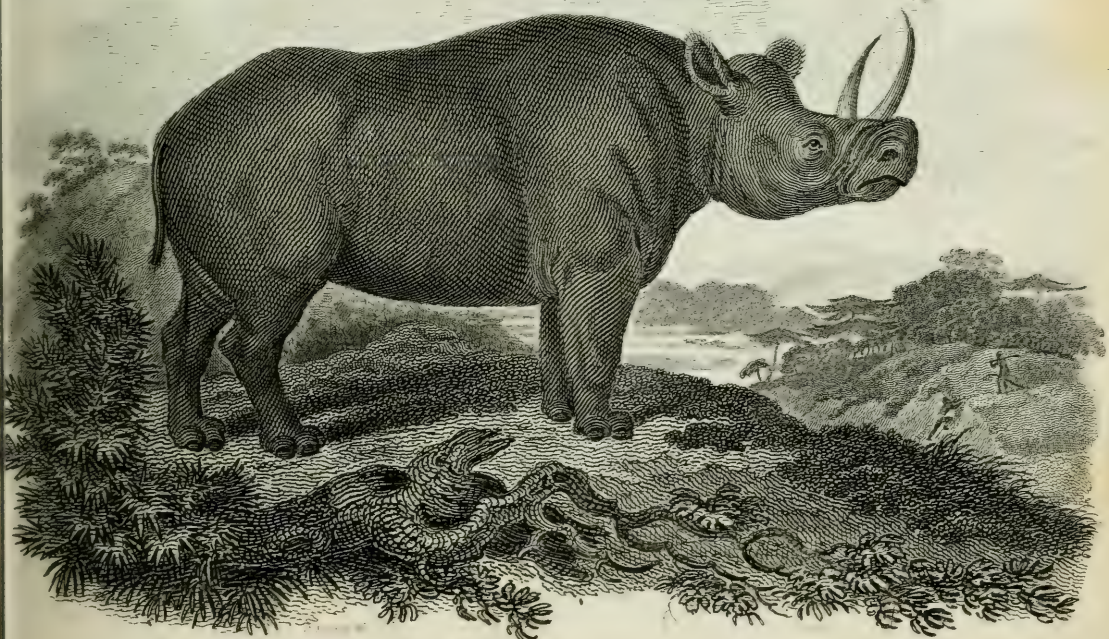


1. Manis Pentadactyla short tailed Manis — 2. Manis Tetradactyla long tailed Manis — 3. Dasypus Sexcinctus Six banded Armadillo  
 4. Dasypus Novemcinctus Nine banded Armadillo. — 5. Dasypus Duodecincinctus Tricinctus Lim. Twelve banded Armadillo.





*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 25<sup>th</sup> 1839, by Longman, Hurst, Bosc. & Co. Printers





# QUADRUPEDS.

Linn Syst.

CLASS I<sup>st</sup> MAMMALIA. ORDER III<sup>d</sup> FERE. GENUS IV<sup>th</sup> CANIS.

PLATE II of Order V<sup>th</sup>



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<sup>d</sup> 1821, by Longman & Co. Stationer Lane.



QUADRUPEDS.

CLASS I<sup>ta</sup> MAMMALIA. ORDER III<sup>ta</sup> 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.

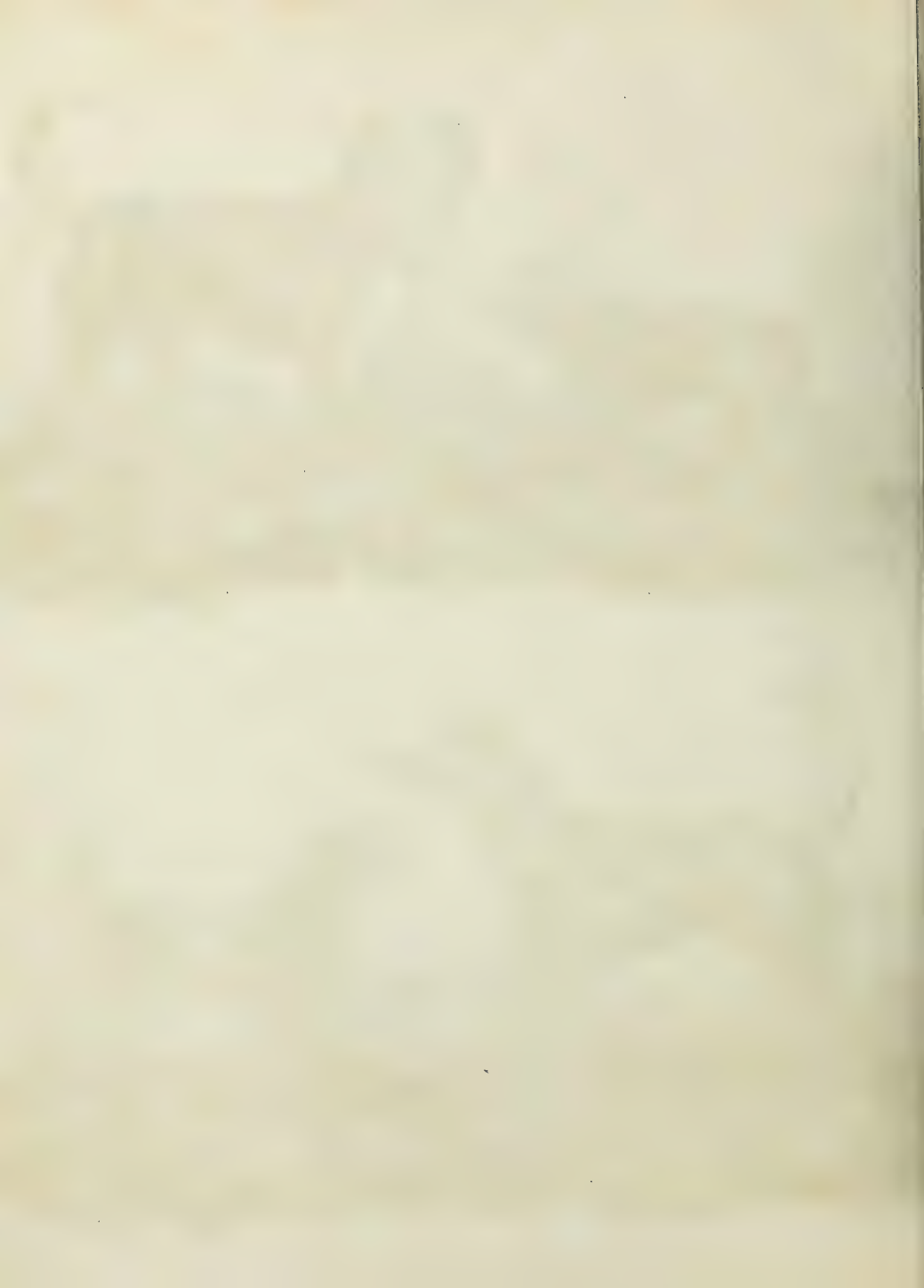


CLASS I<sup>ta</sup> MAMMALIA ... ORDER III<sup>ta</sup> TERRE ... GENUS IV<sup>ta</sup> CANIS.



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

Published at the Art Direct. Dept. by Longman Hurst, Esq. & Co. in Brown, Paternoster Row.



QUADRUPEDS

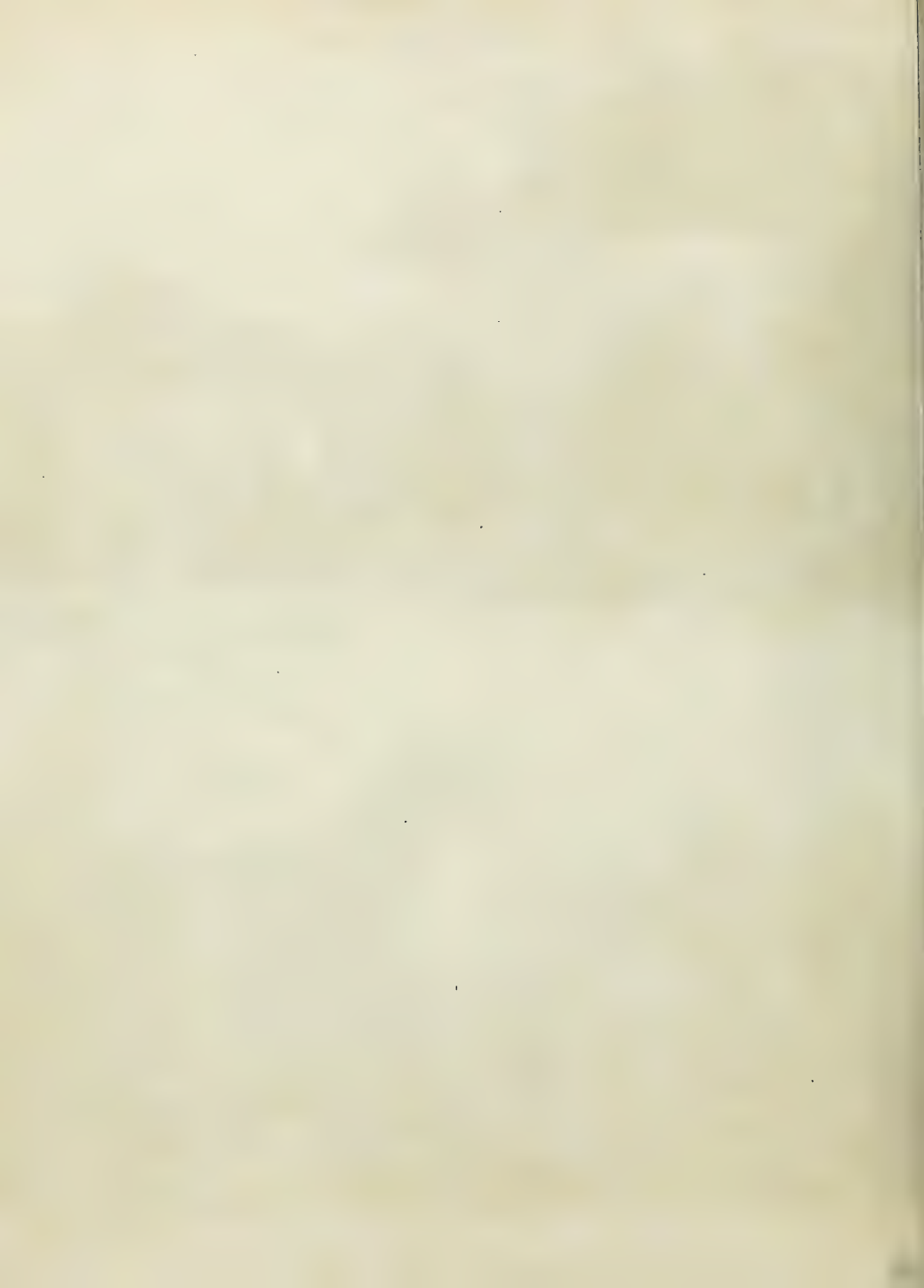
CLASS I. MAMMALIA. ORDER II. VIVERRA. GENUS IV. CANIS.

PLATE IV. *continued*



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

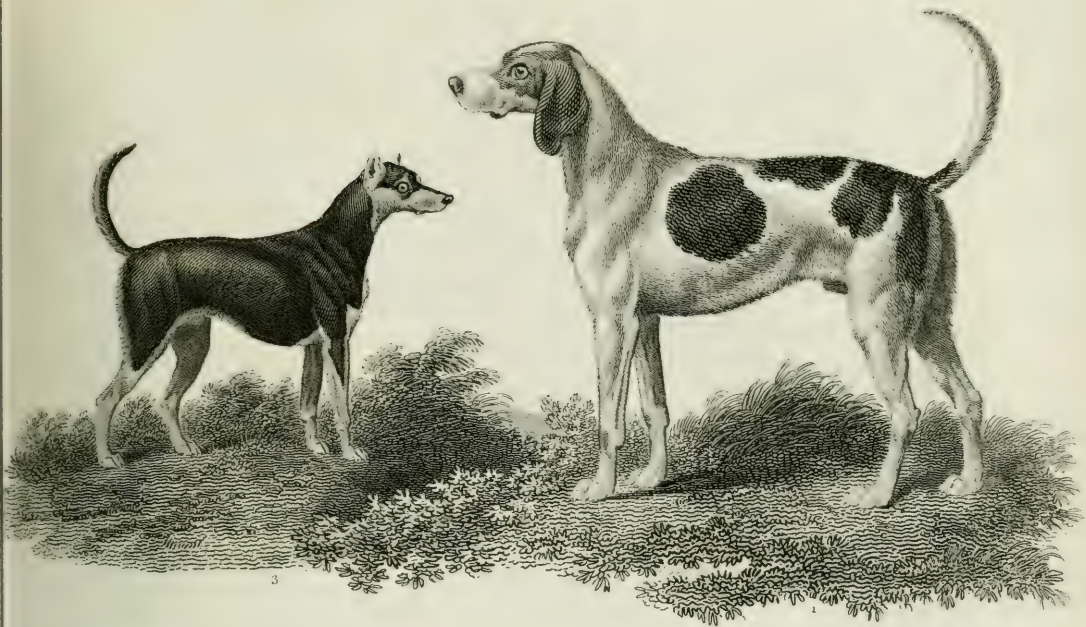
Engraved by the Art Director, June 1862, by Longman, Brown, Green & Co. Lithographers, Ram.





QUADRUPEDS.

CLASS I<sup>st</sup> MAMMALIA \_ ORDER III<sup>rd</sup> FERA \_ GENUS IV<sup>th</sup> CANIS.

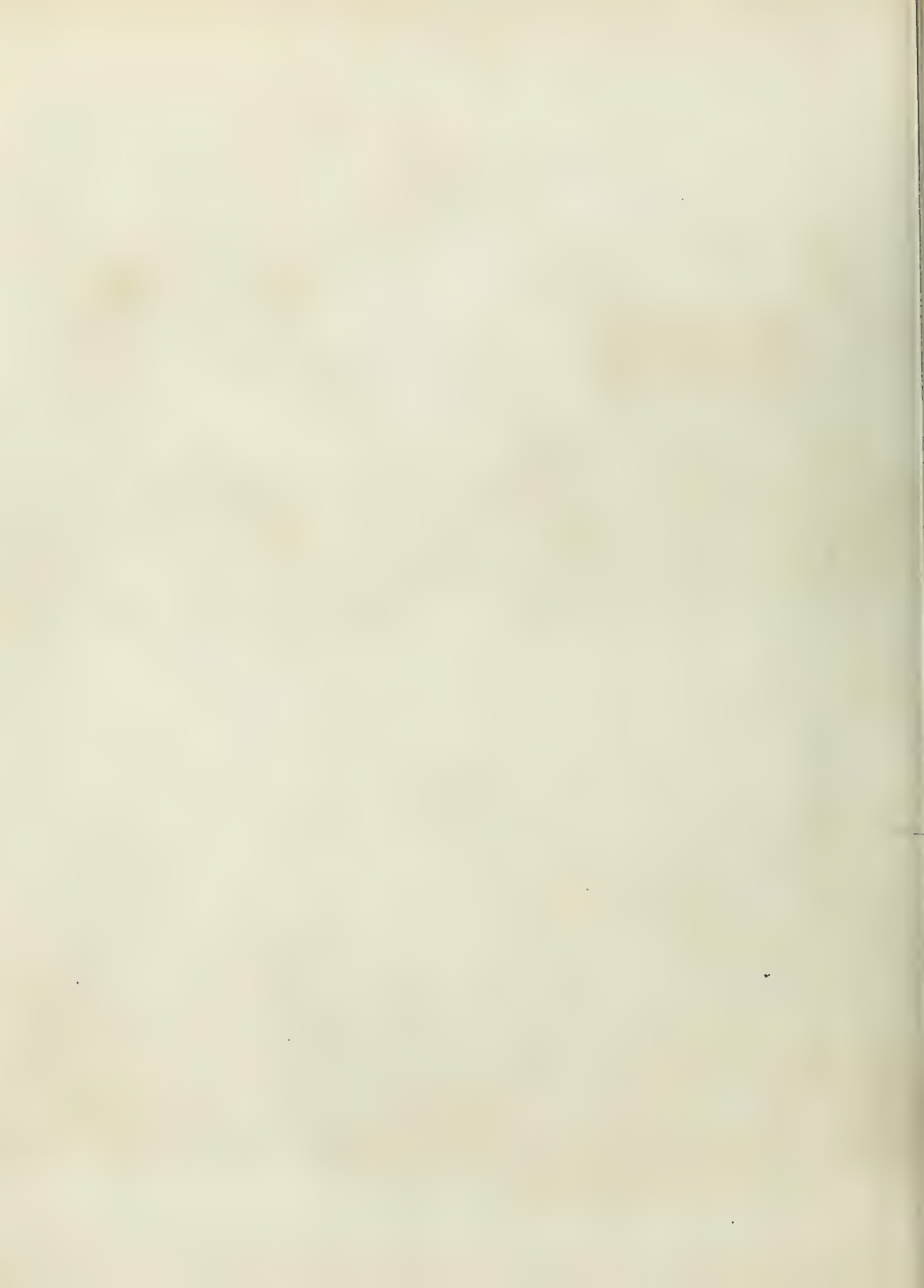


3



4

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



st.

QUADRUPEDS.  
CLASS MAMMALIA. ORDER FERE. GENUS CANIS.



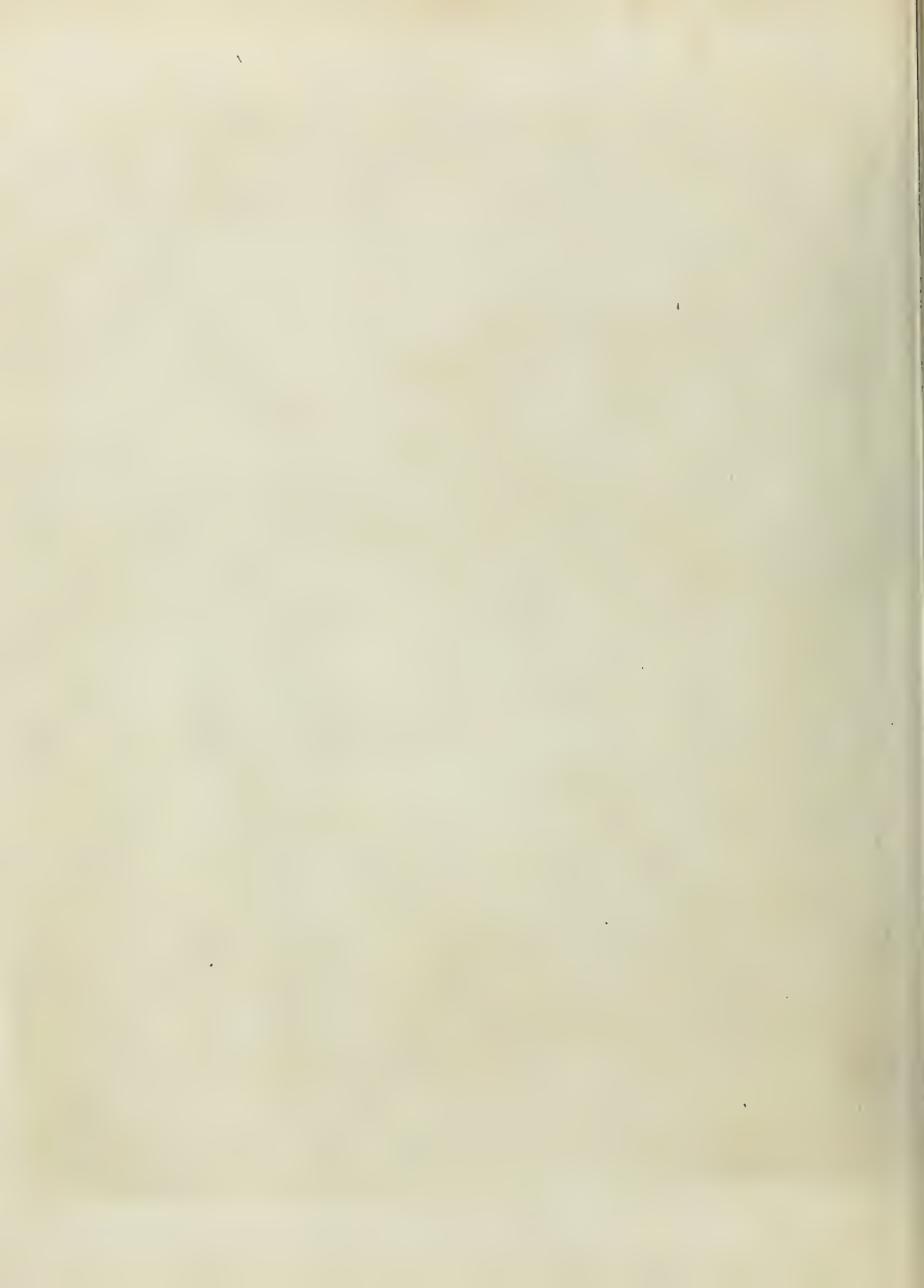
1. Canis Lupus. Wolf. 2. C. Hyæna. Striped Hyæna. 3. C. Mesomelas. Cape Jackal.  
4. C. Vulpes. Common Fox. 5. C. Lagopus. Arctic Fox.



QUADRUPEDS.  
GENUS FELIS. LIONS, TYGERS &c.

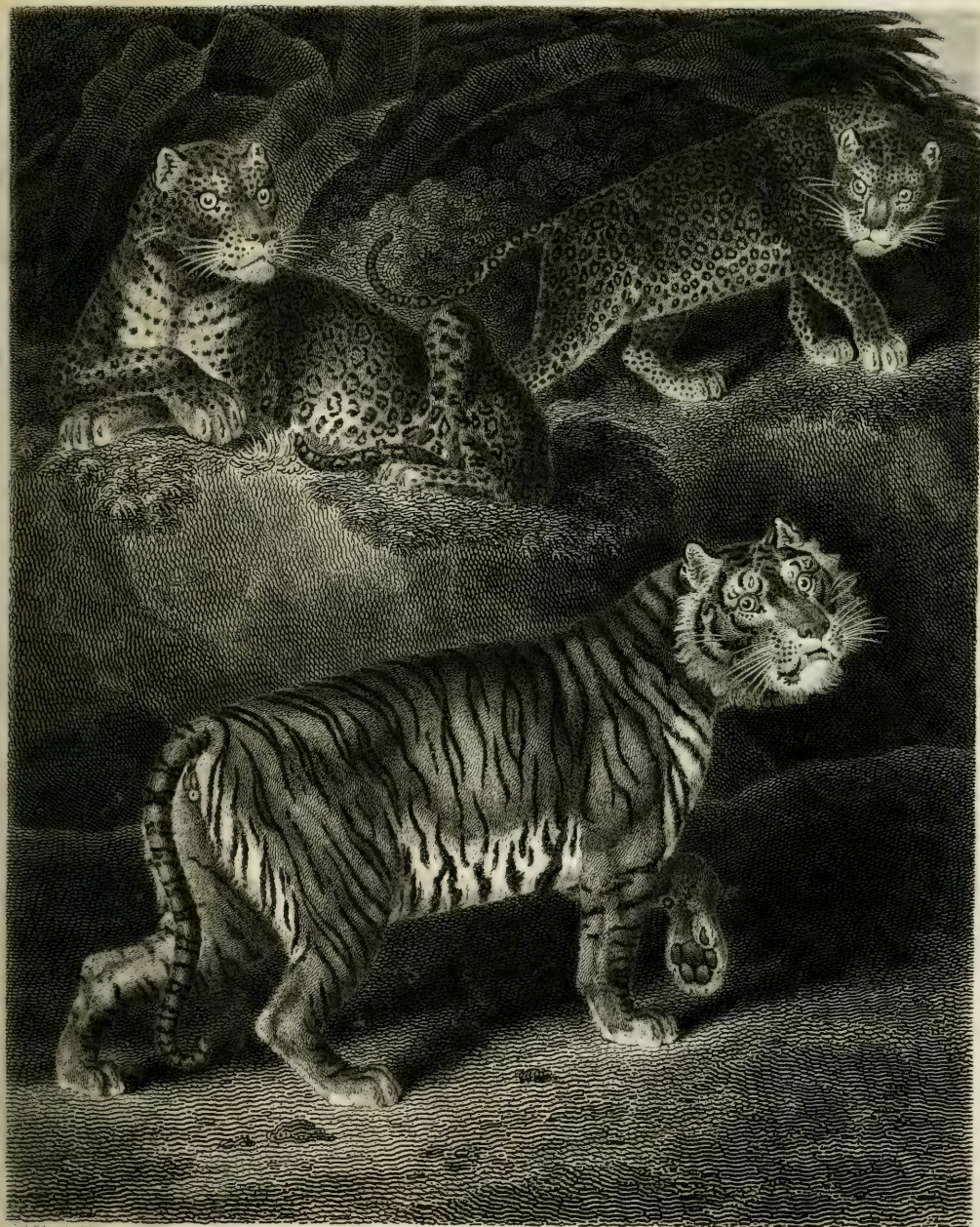


Felis Leo. Lion, Lioness & Young.



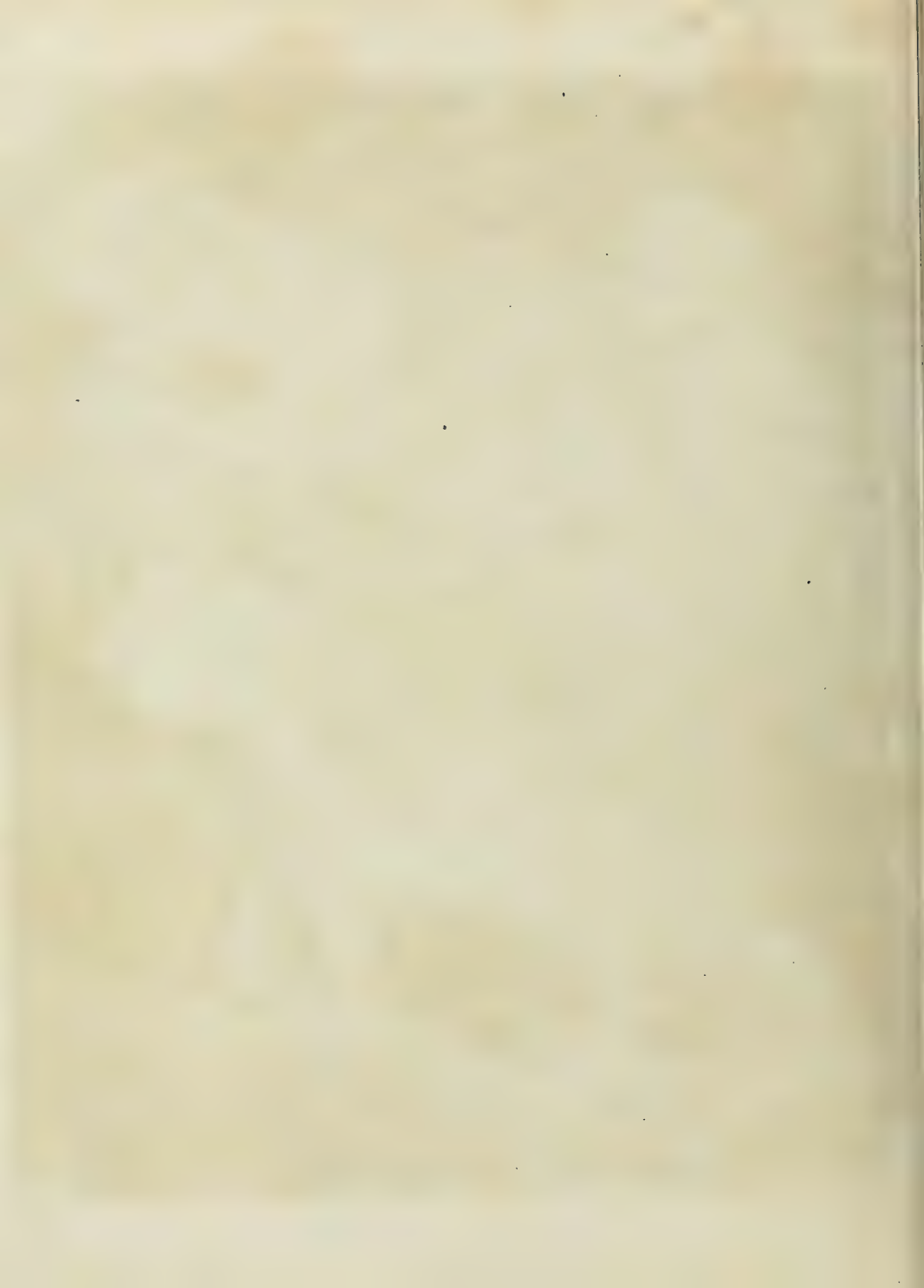
QUADRUPEDS.

CLASS I<sup>ST</sup> 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.

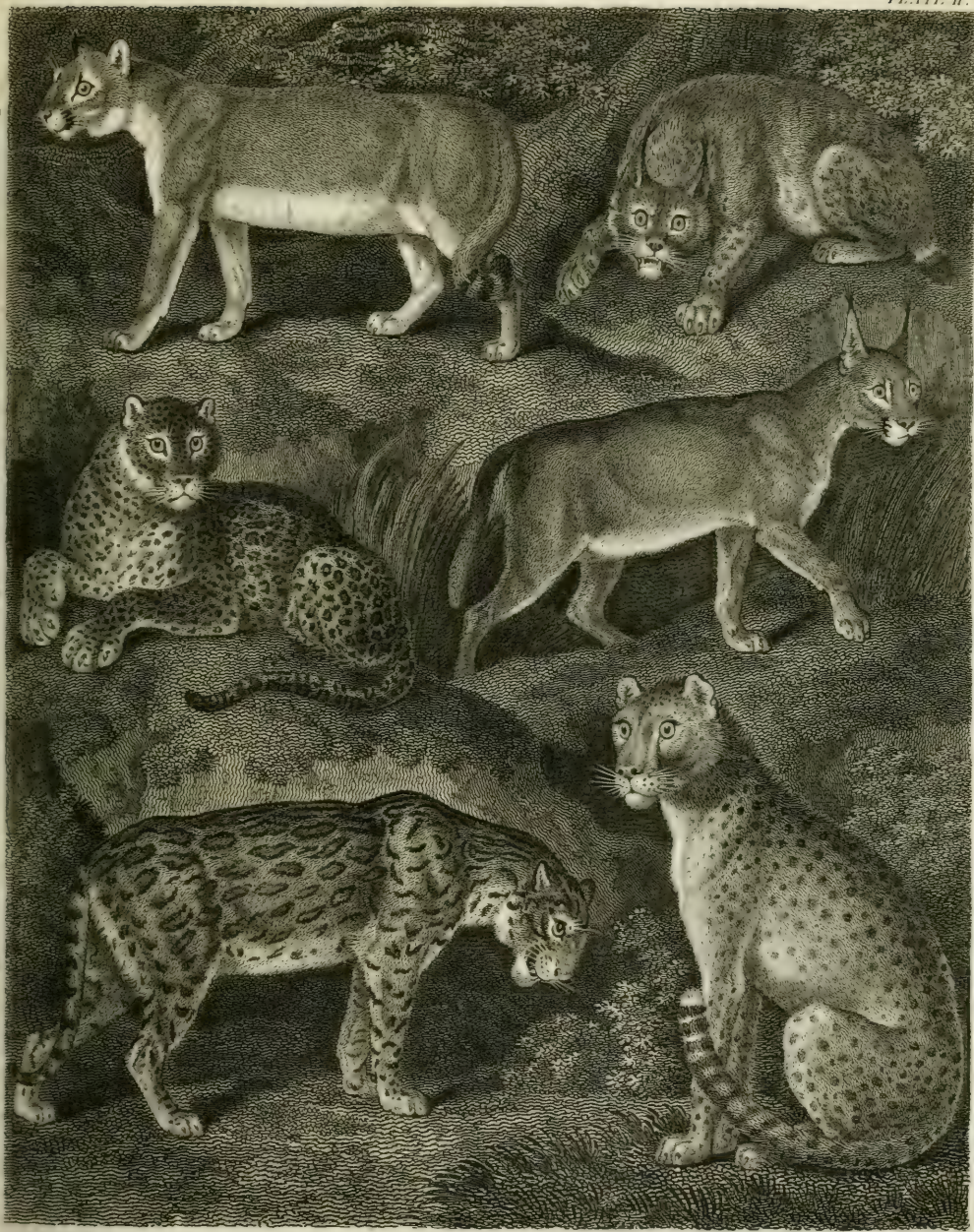




# QUADRUPEDS

GENUS FELIS. TYGERS.

PLATE II.



1. Felis tigris, Cougar. — 2. Felis lynx, the Lynx. — 3. Felis catus, Ocelot. — 4. Felis onca, Jaguar. — 5. Felis onca, Jaguar. — 6. Felis pardus, Leopard.

*Published by the Author, No. 1, Pall Mall East, London.*



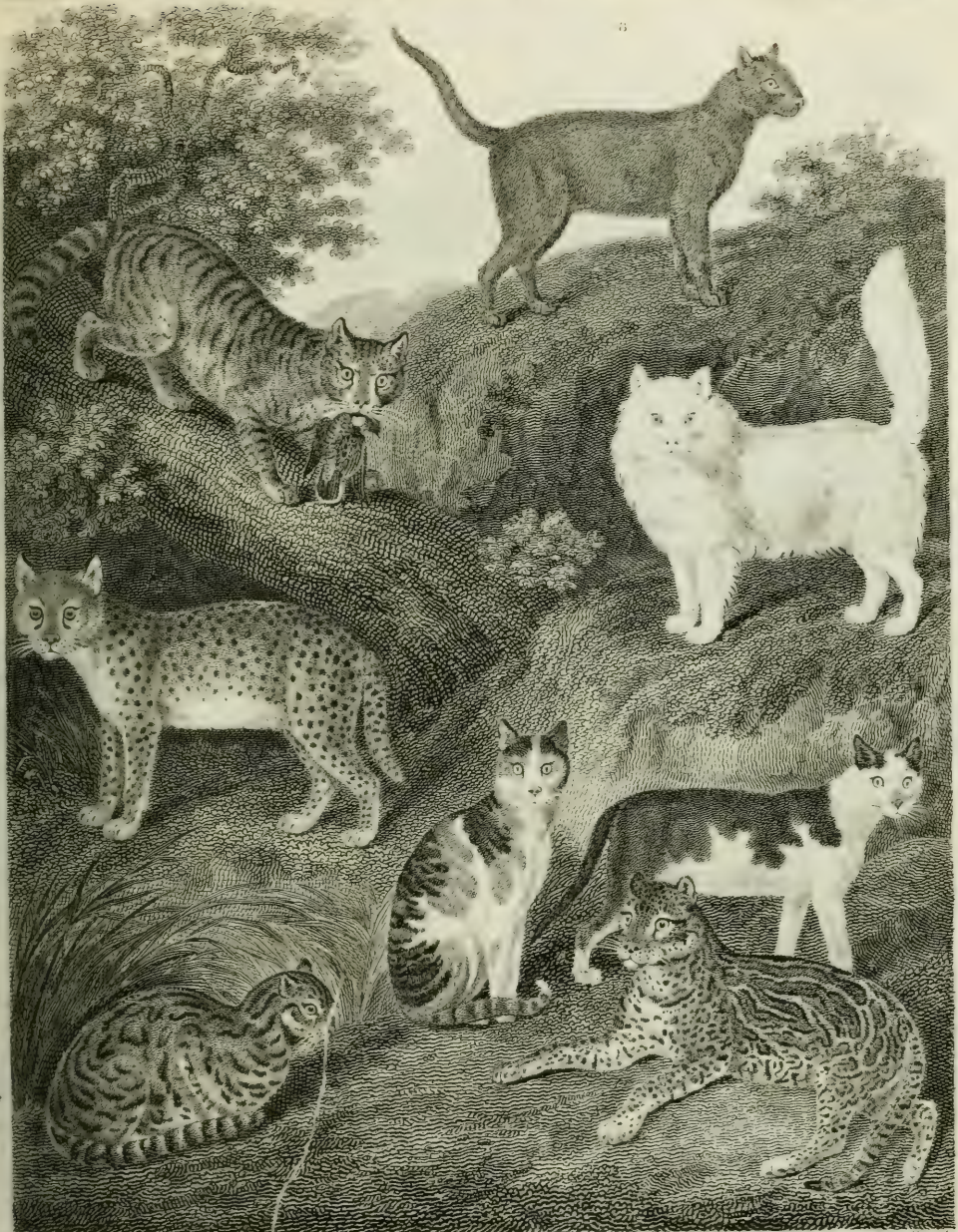


Fig. 1. Felis Pardalis, Ocelot. 2. Felis Tigrina, Mangay. 3. Felis Serval, Serval. 4. Felis Catus, Wild Cat. 5. var. Domestic Cat. 6. var. Spanish or Tortoise-shell Cat. 7. var. Angora Cat. 8. var. Slate Coloured Cat, or Chartreux.

Published as the 1st direct. Dec. 2<sup>d</sup> 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. Brasilian. Weesel. 5 V: Civetta. Civet.



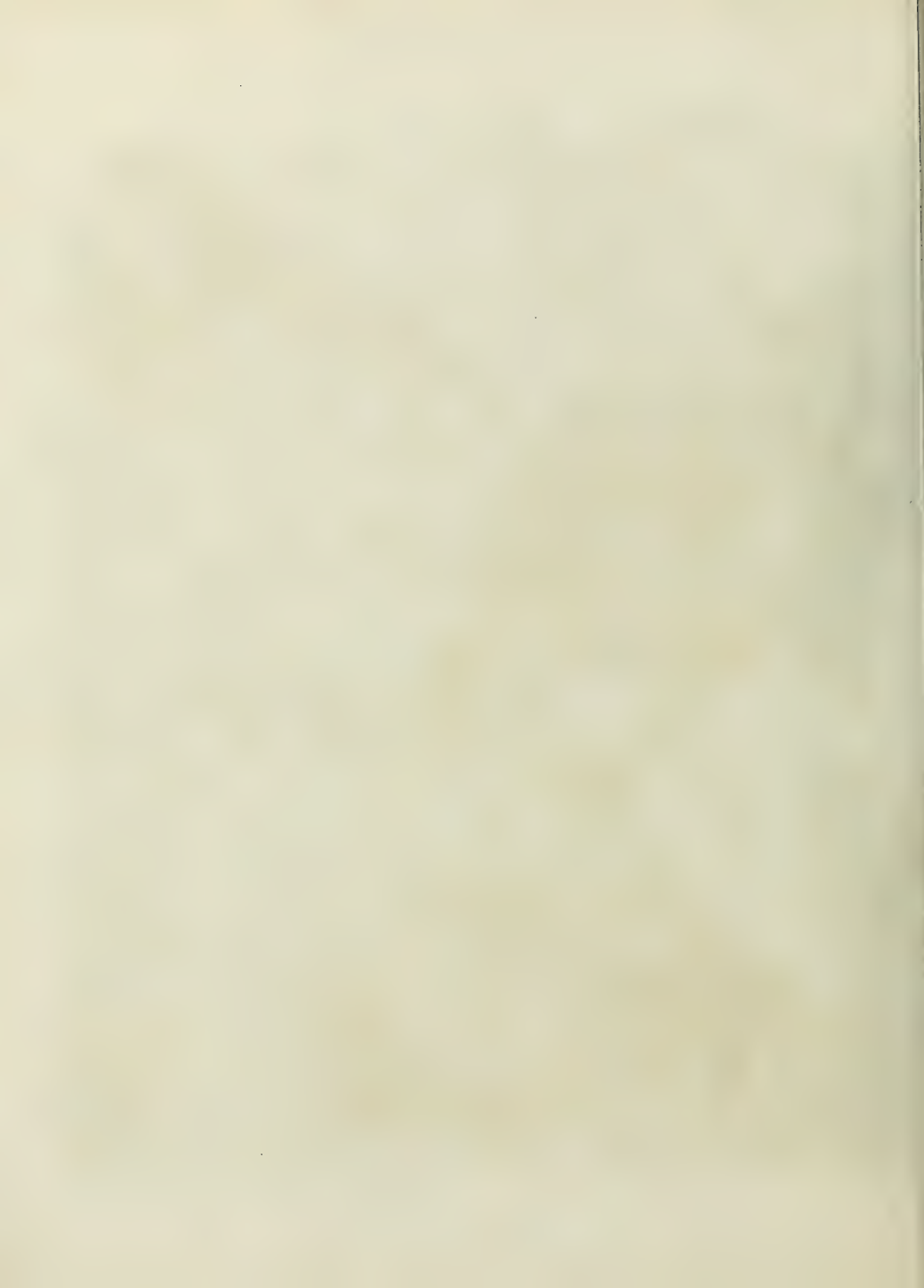
# QUADRUPEDS.

CLASS MAMMALIA. ORDER FERA. GENUS MUSTELA.



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

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



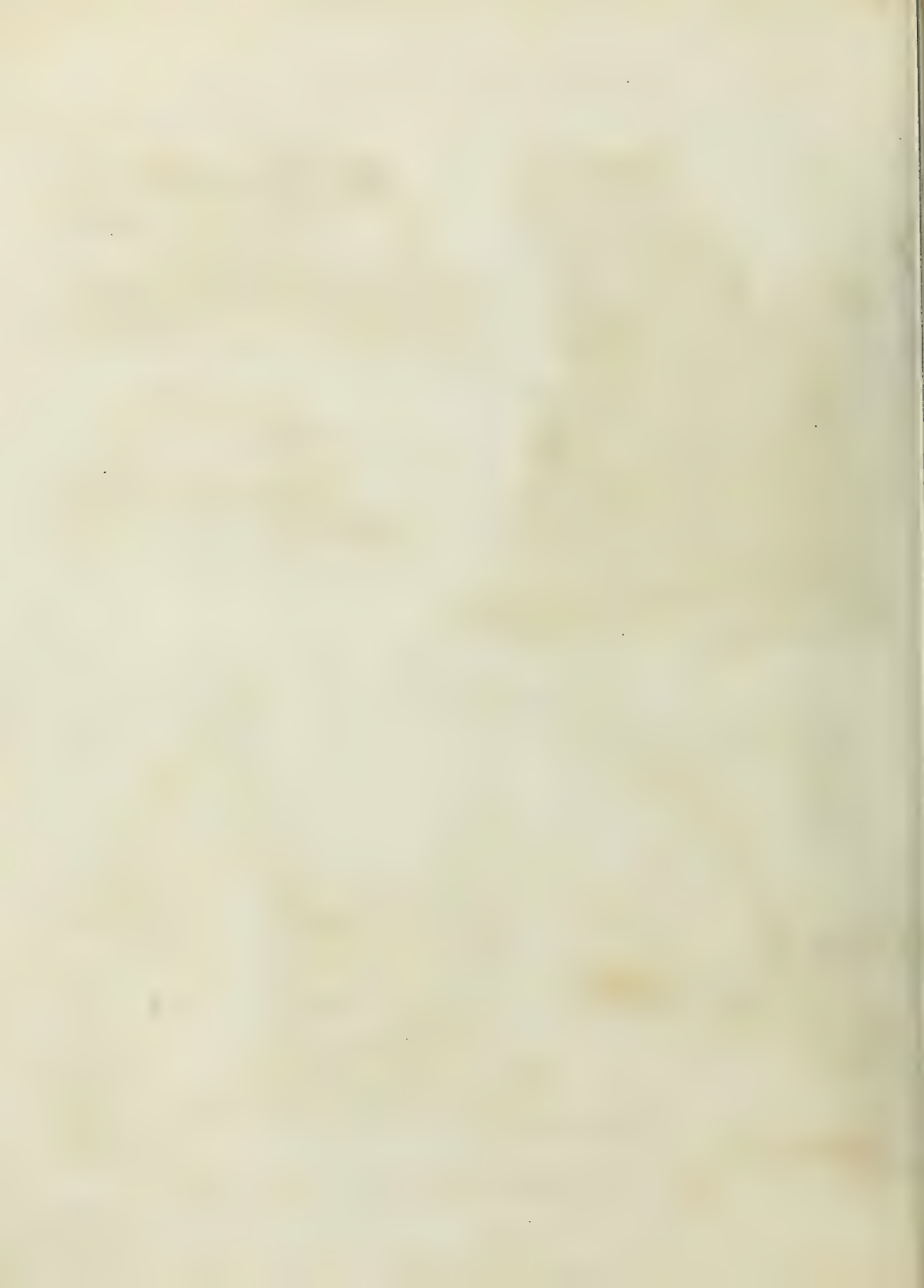


QUADRUPEDS.

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.

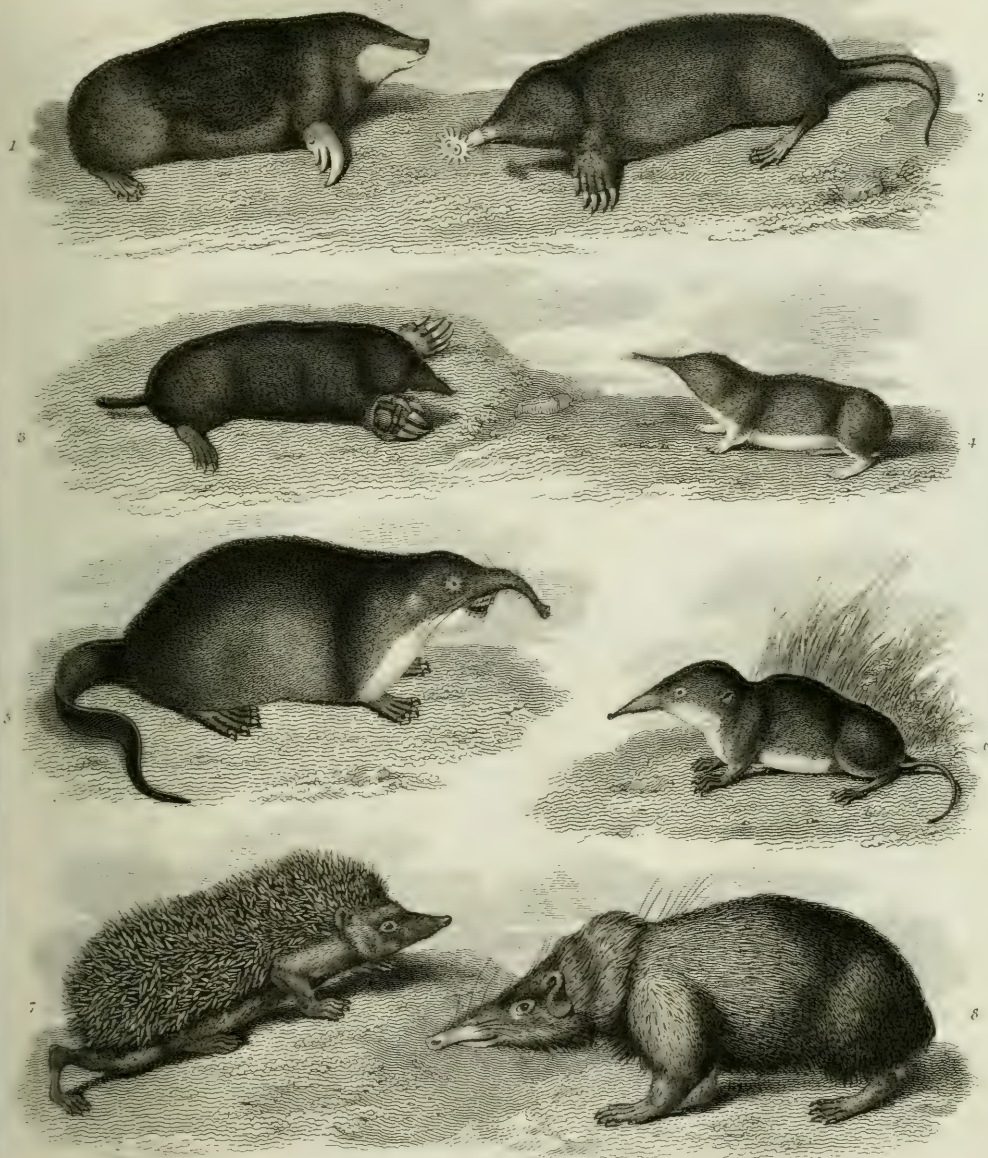


1. D. Virginiana Virginian O. — 2 D. Petaurus Petaurine O. — 3 D. Murina Murine O. — 4 D. Gigantea Great K. a. Mas. b. Fem.

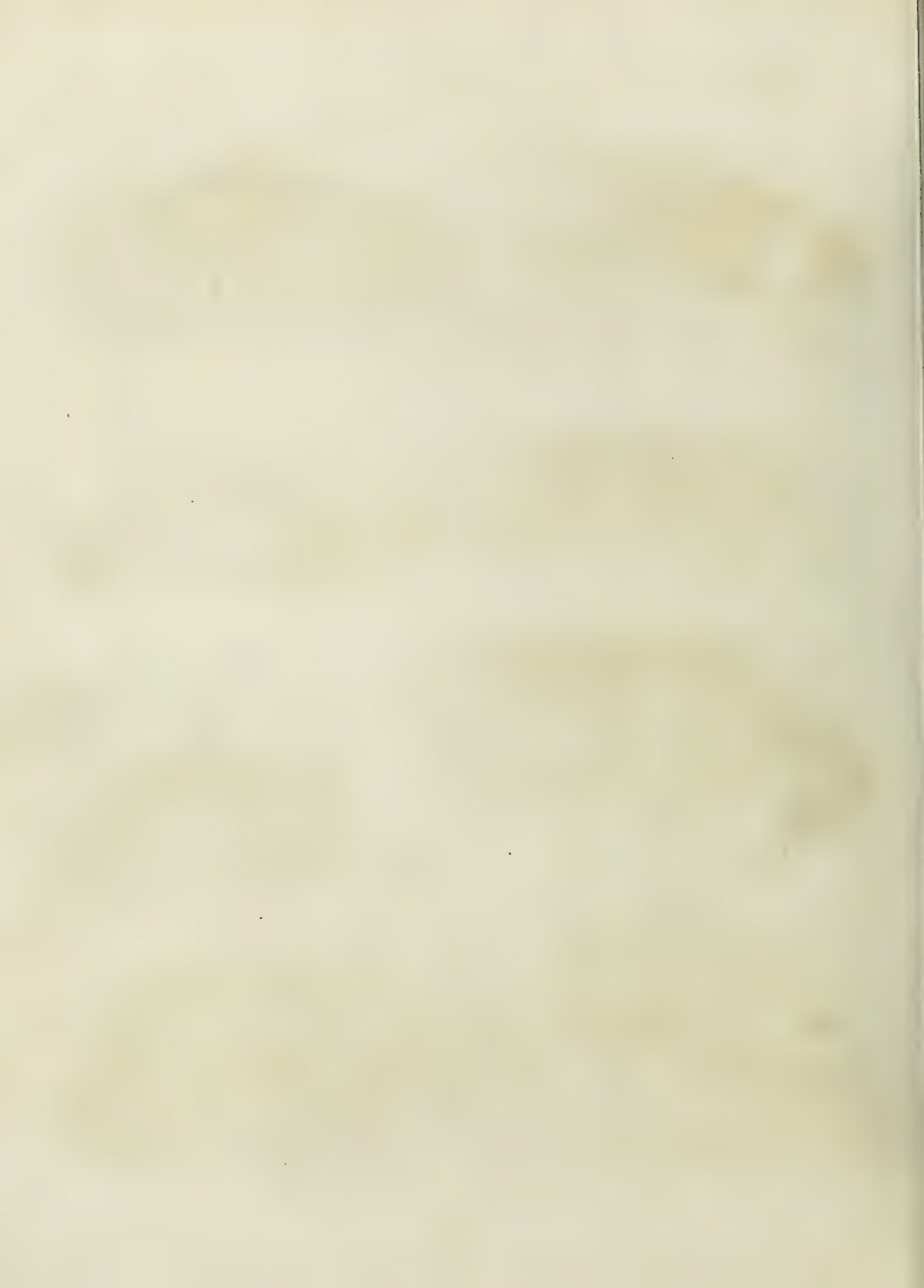


# QUADRUPEDS.

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  
 6. S. Araneus. Foetid S. 7. E. Europæus. Common H. 8. 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.

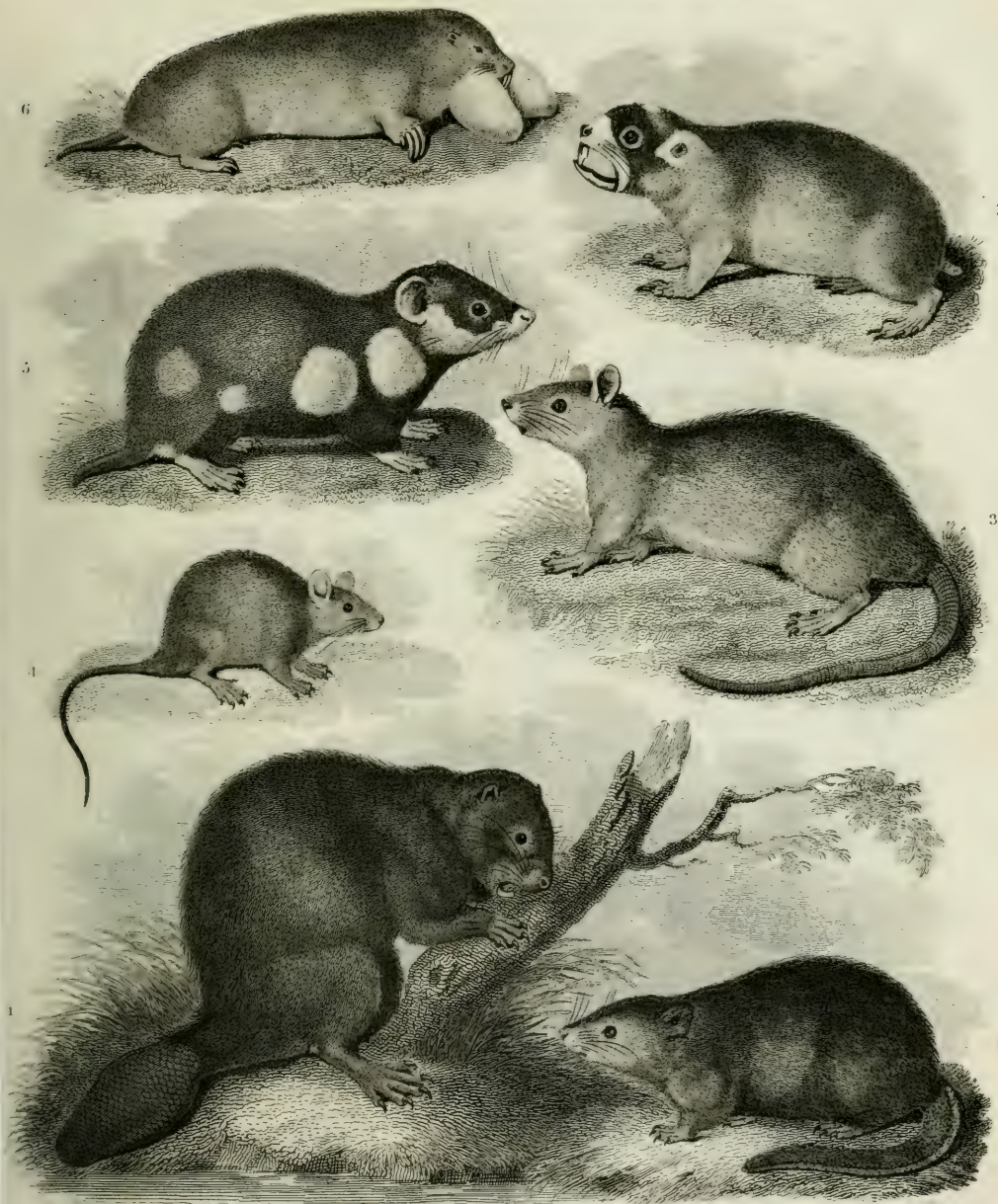
*Engraved by J. G. Thompson from the original drawings by G. Cuvier.*





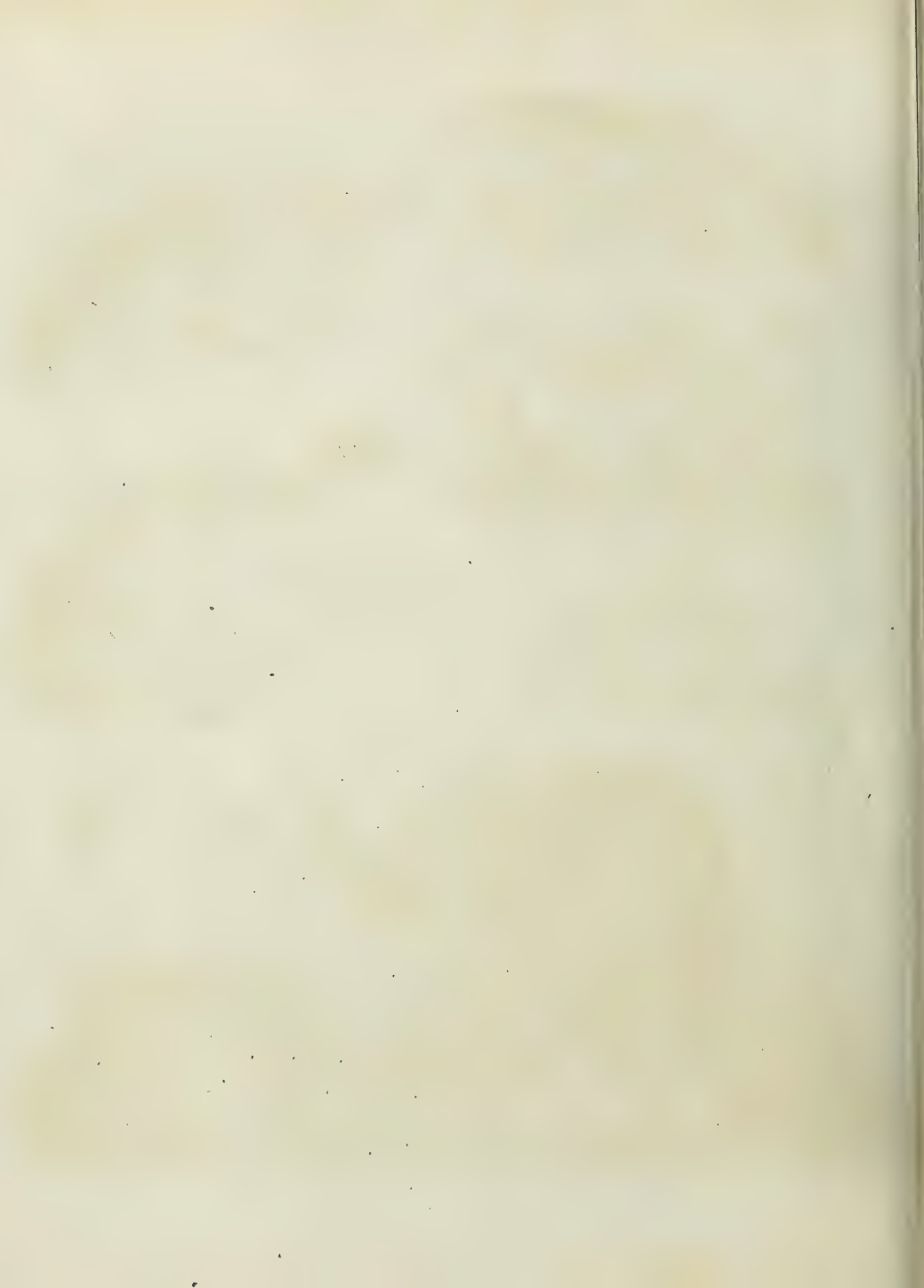
# QUADRUPEDS.

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.

*Engraved by G. S. Cooper, del. & sculp. Published by G. S. Cooper, New York.*



# 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.

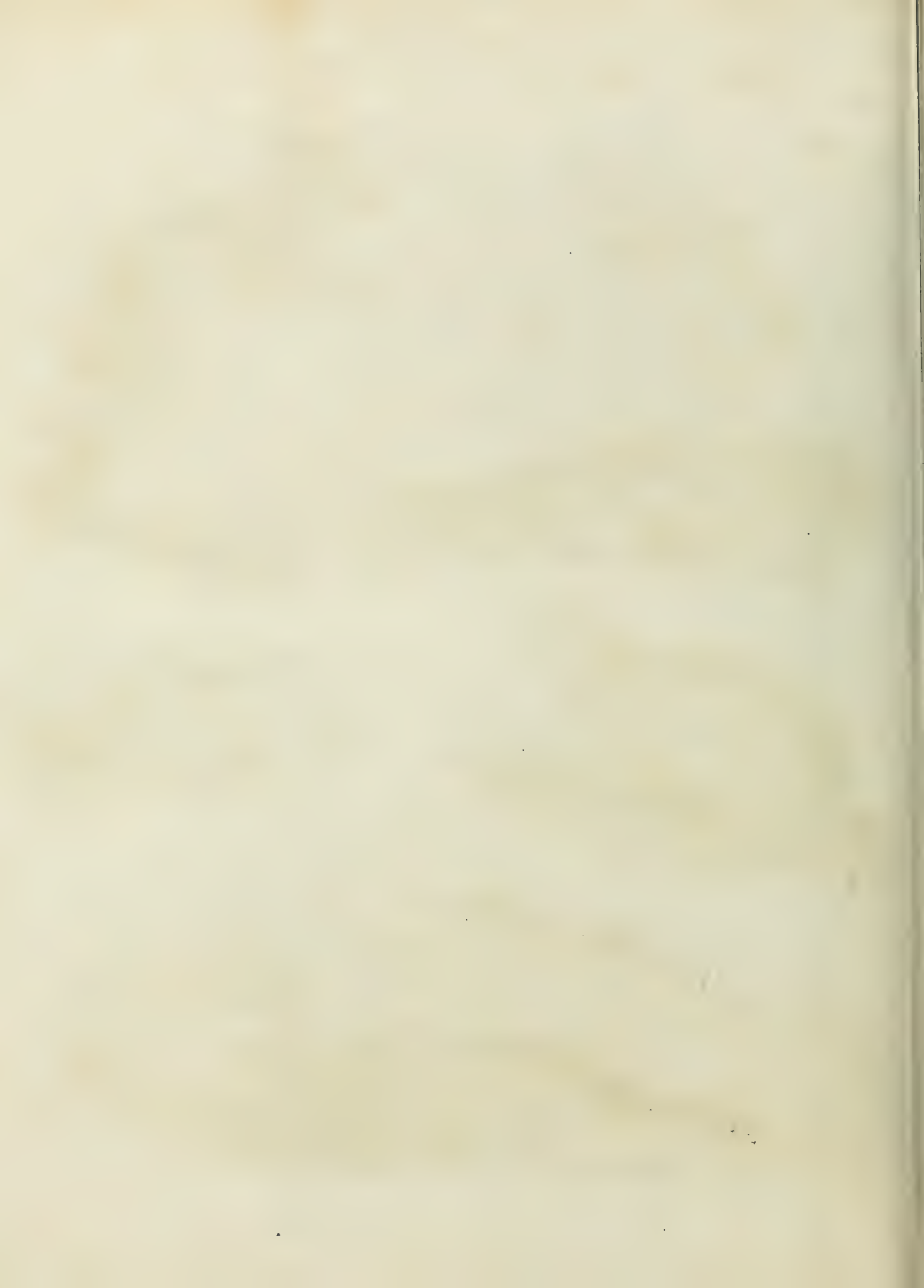


# QUADRUPEDS.

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.

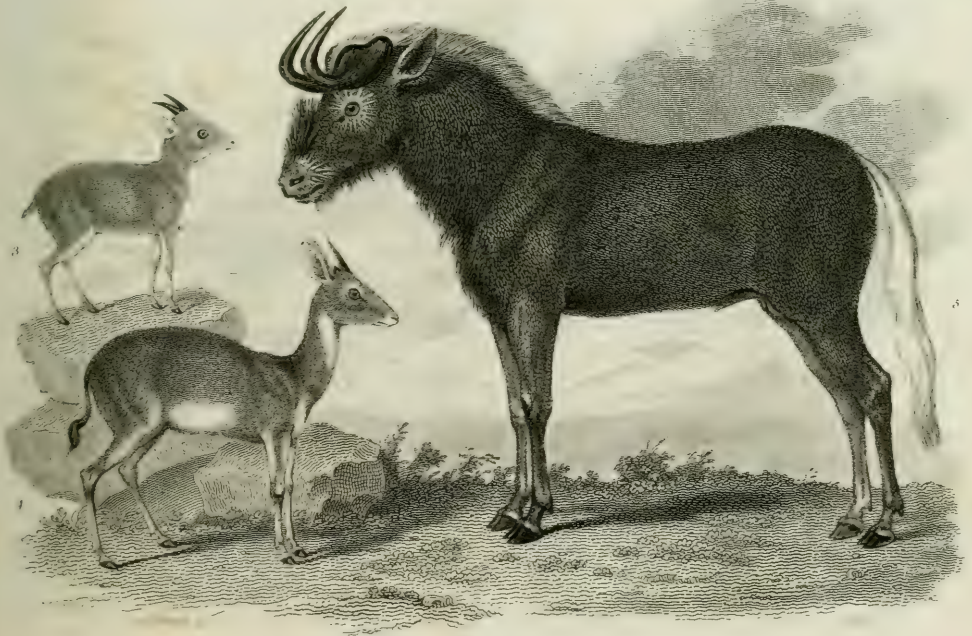


1. C. Tarandus Rein Deer — 2. C. Elaphus Stag Hart or Red Deer — 3. C. Axis Spotted Axis — 4. Camelopardalis Giraffa Camelopard.

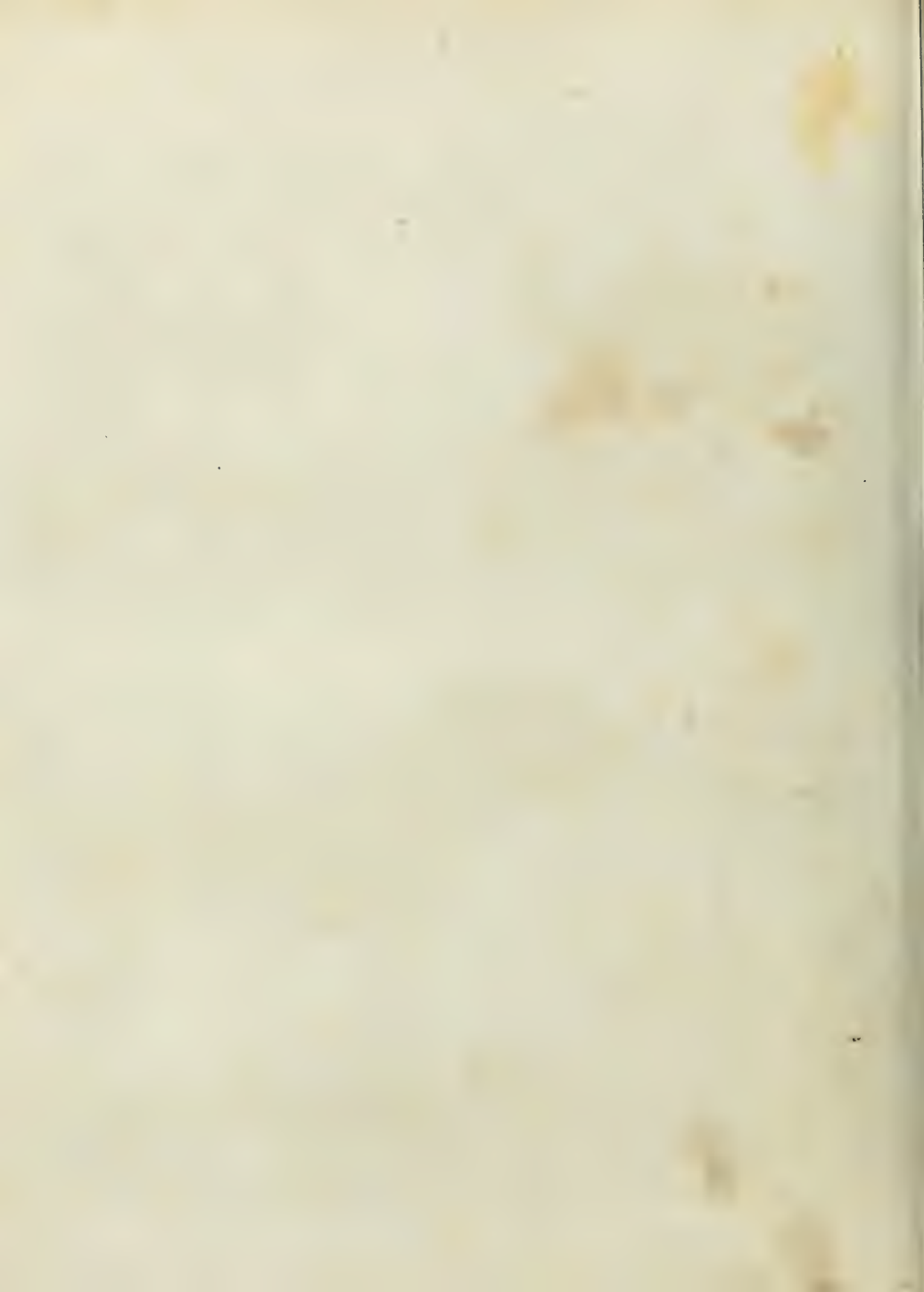


QUADRUPEDS.

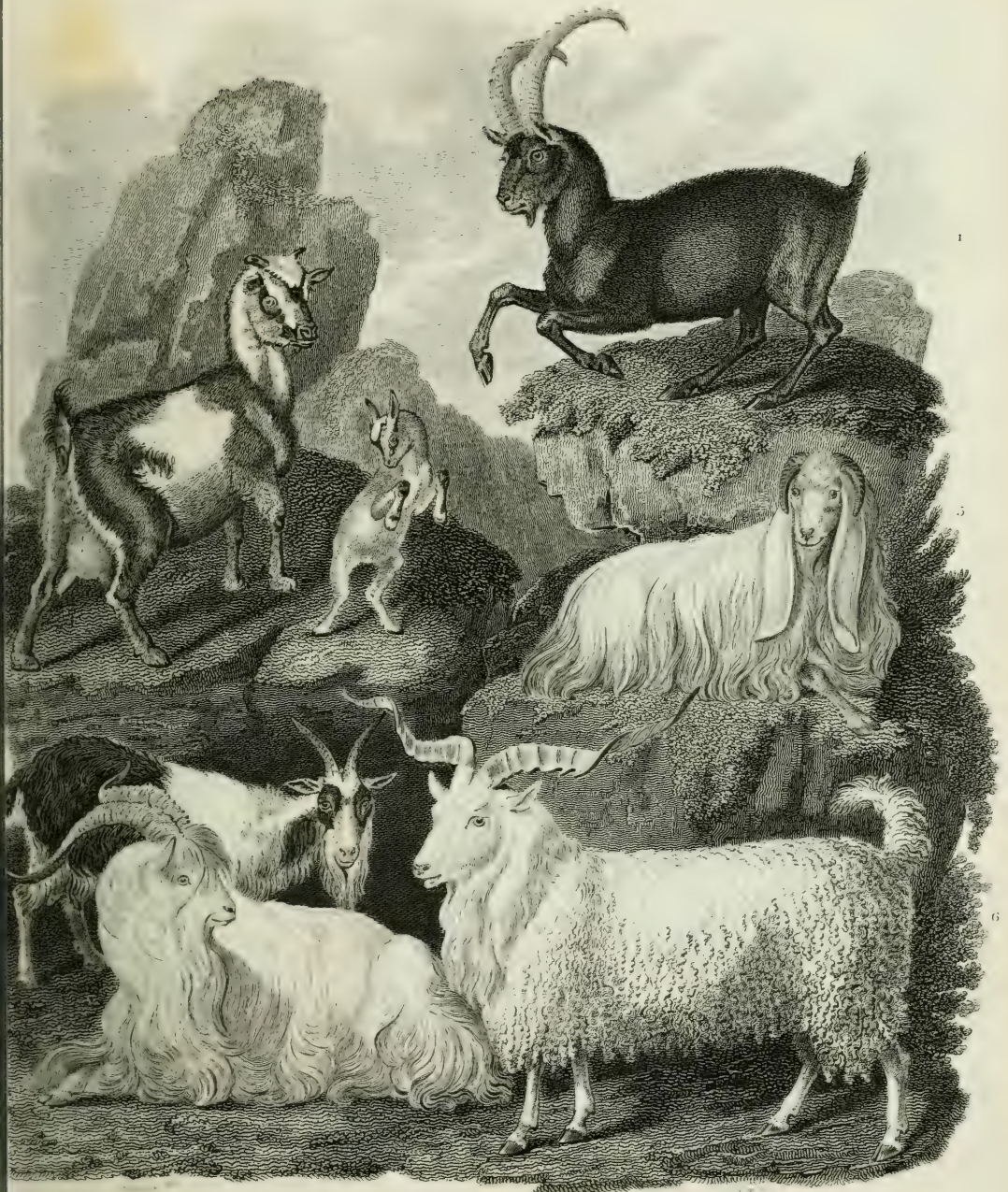
CLASS MAMMALIA. GENUS ANTILOPE. ANTELOPE.



1. A. *Hippocapra Chamois* A. 2. A. *Cervicapra Common* A. 3. A. *Pygmae* Roynl 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.



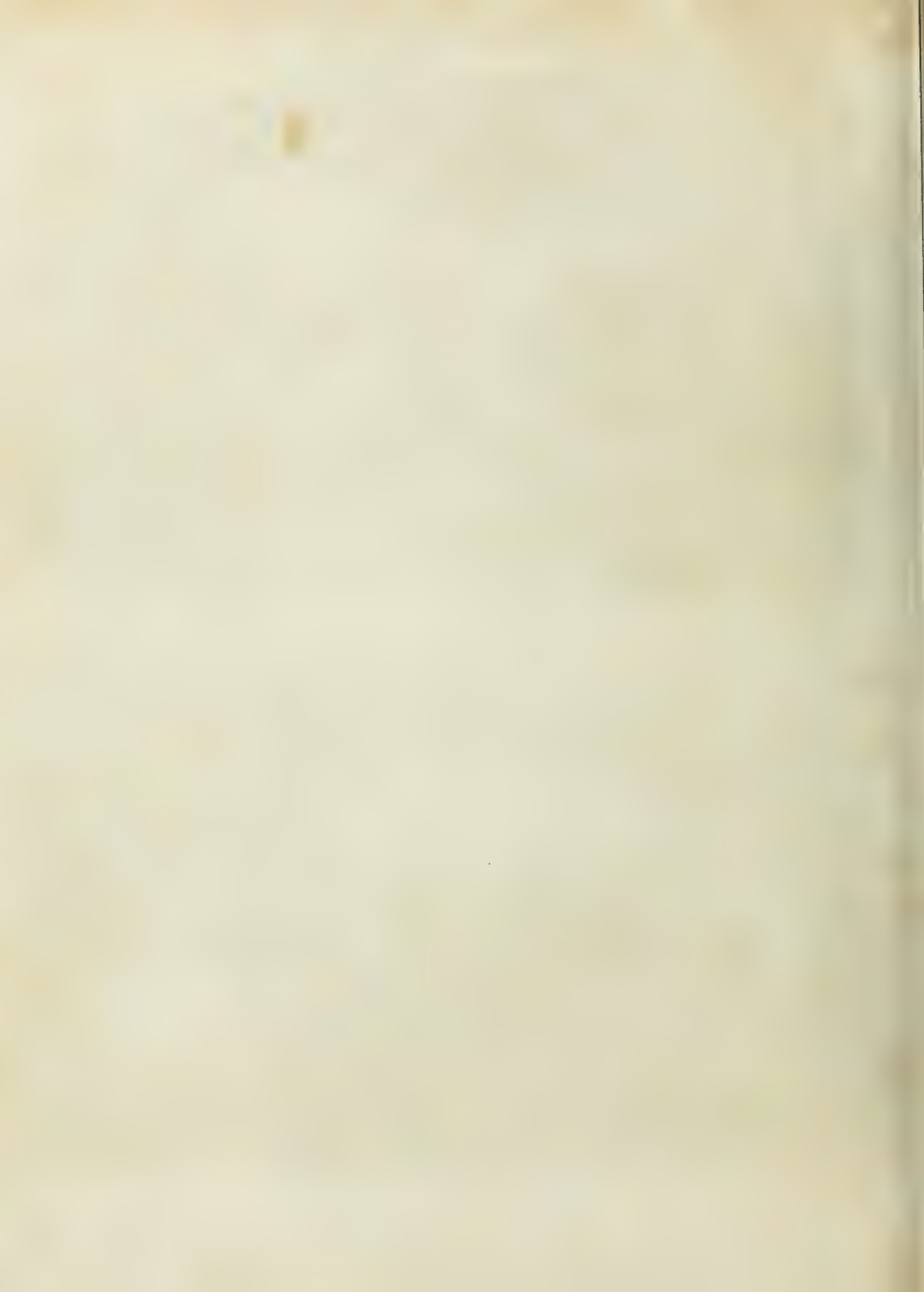
South Down Polled Sheep of the improved breeds. From the Stock of the late Duke of Bedford, Woburn.



QUADRUPEDS.  
GENUS OVIS. SHEEP VAR. HORSED SHEEP.



1 Norfolk Breed. 2 Merfordshire Breed.



QUADRUPEDS  
BOS TAURUS. WILD OX OF SCOTLAND.



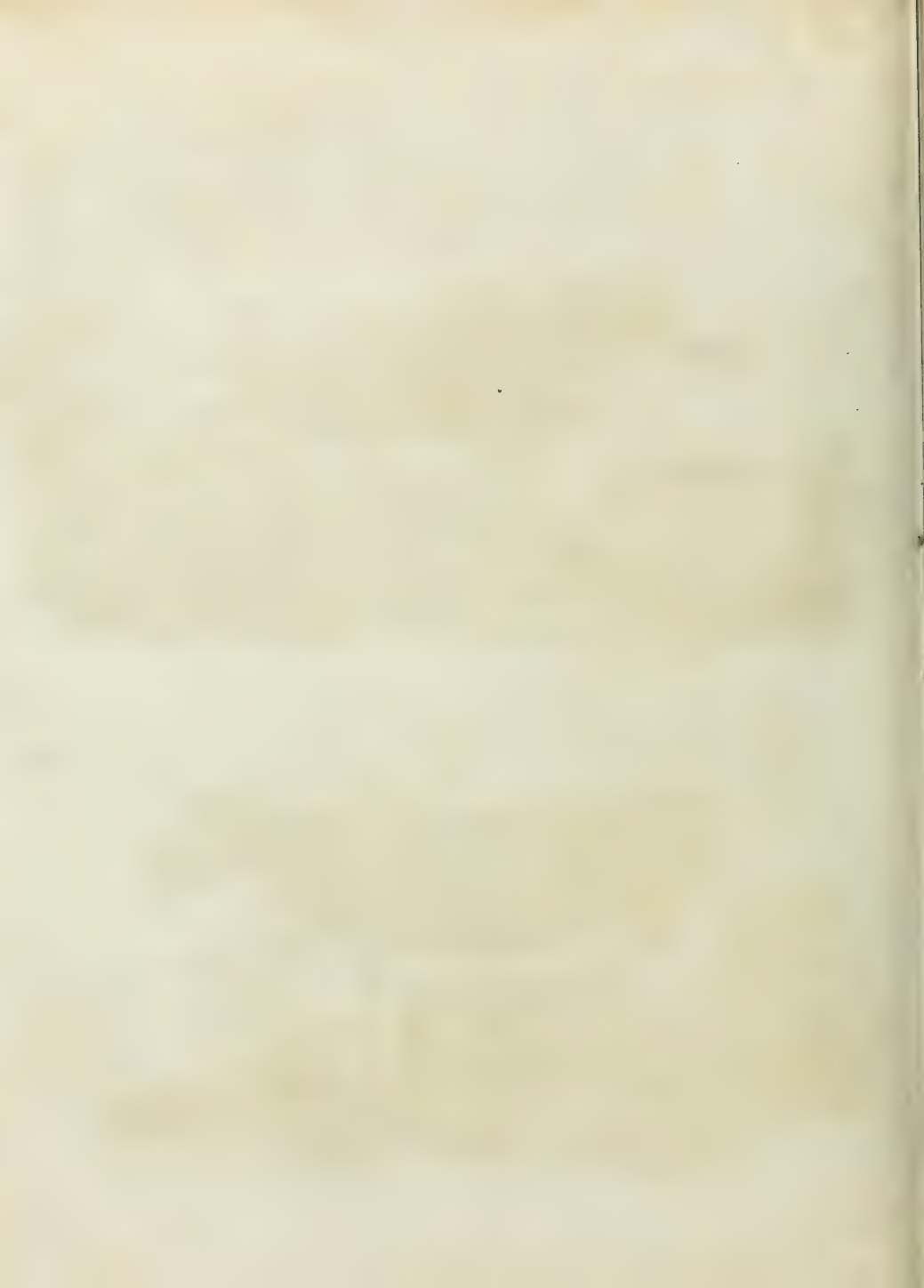
1 The Bull. — The Cow and Calf.



QUADRUPEDS  
BOS TAURUS. OXEN.



Long Horned or Lancashire Breed



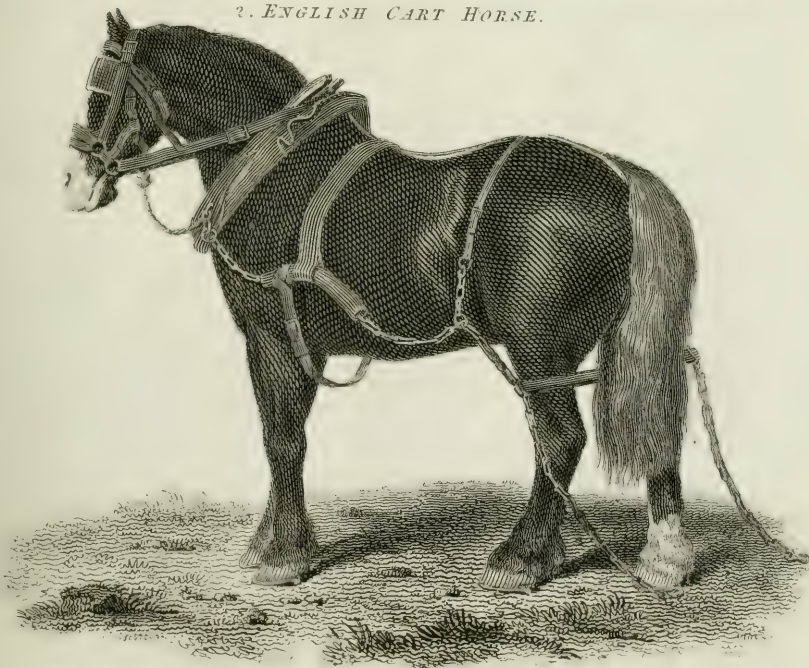


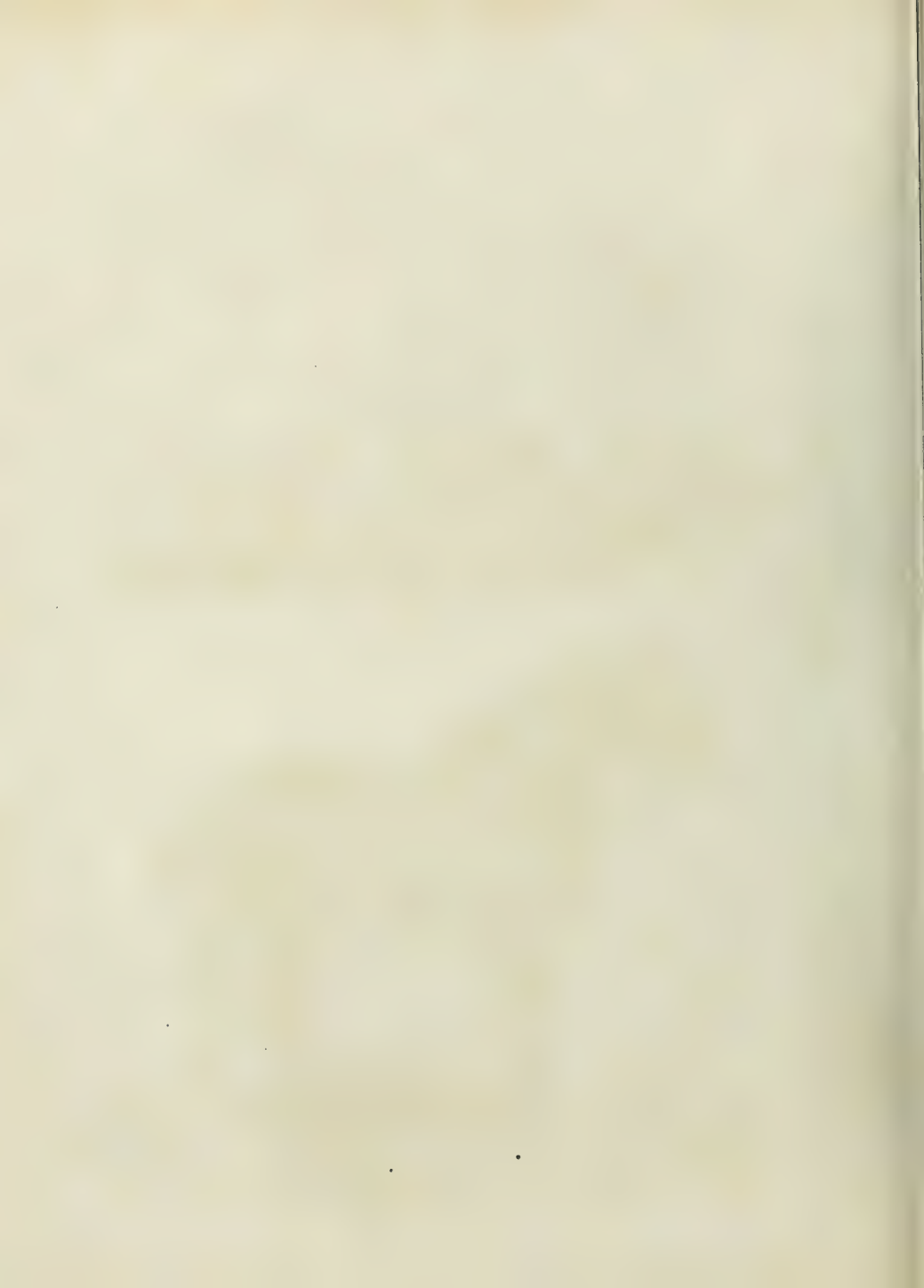
HORSES.  
1. SHETLAND PONEY.

PLATE I.

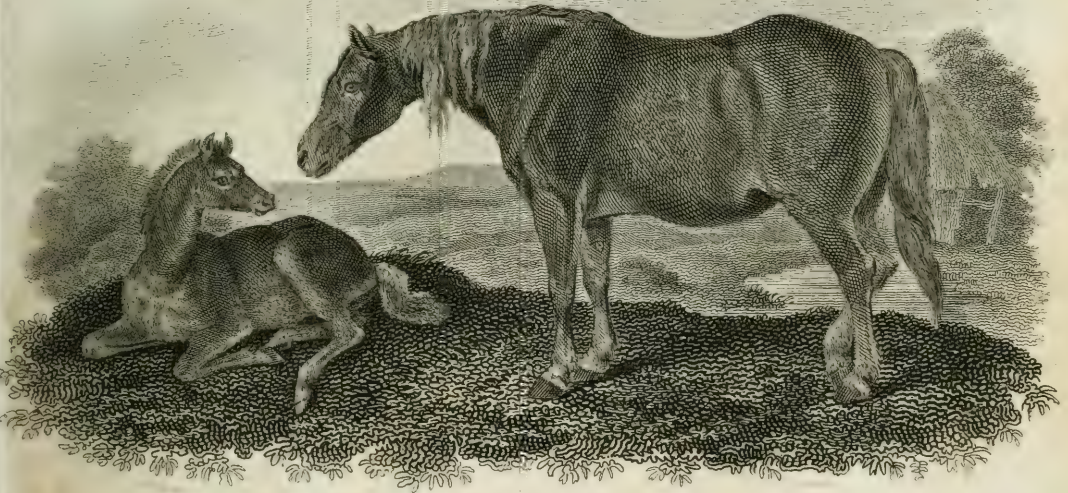


2. ENGLISH CART HORSE.





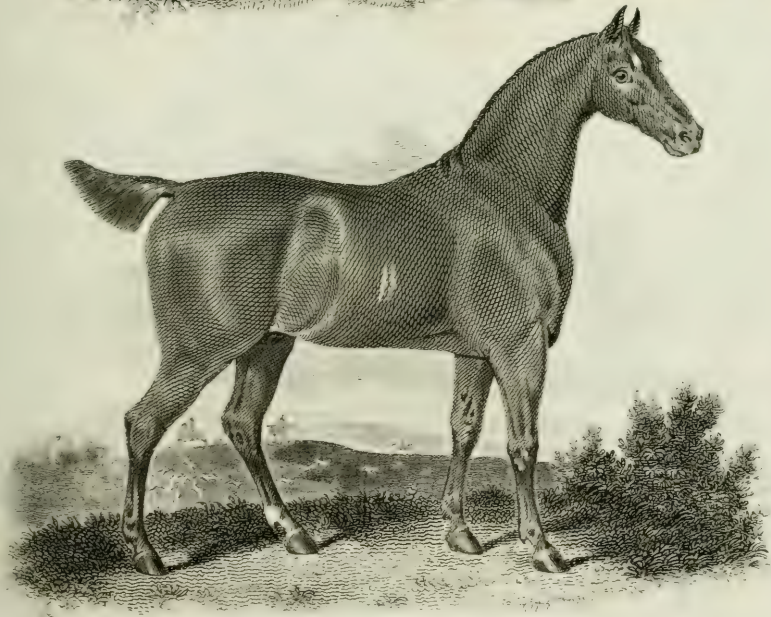
QUARTER HORSE.  
Class 15 Mammalia. Order VI. Belluae. Genus 33. Equus.  
SUFFOLK AGRICULTURE & PUNCH HORSE.



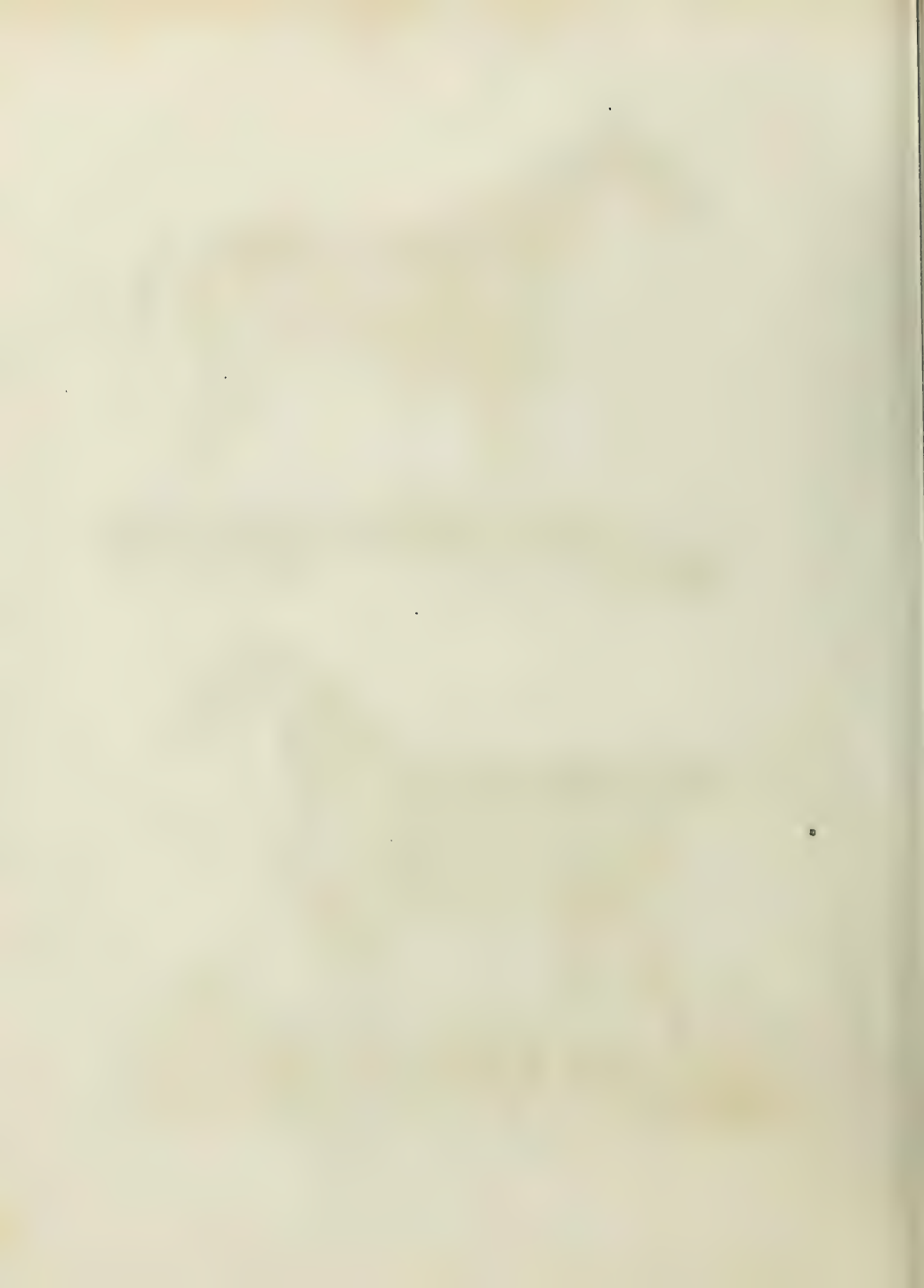
*Small Mare & Foal from the Stock of the late Duke of Bedford.*



QUADRUPEDS.  
GENUS EQUUS. HORSE.



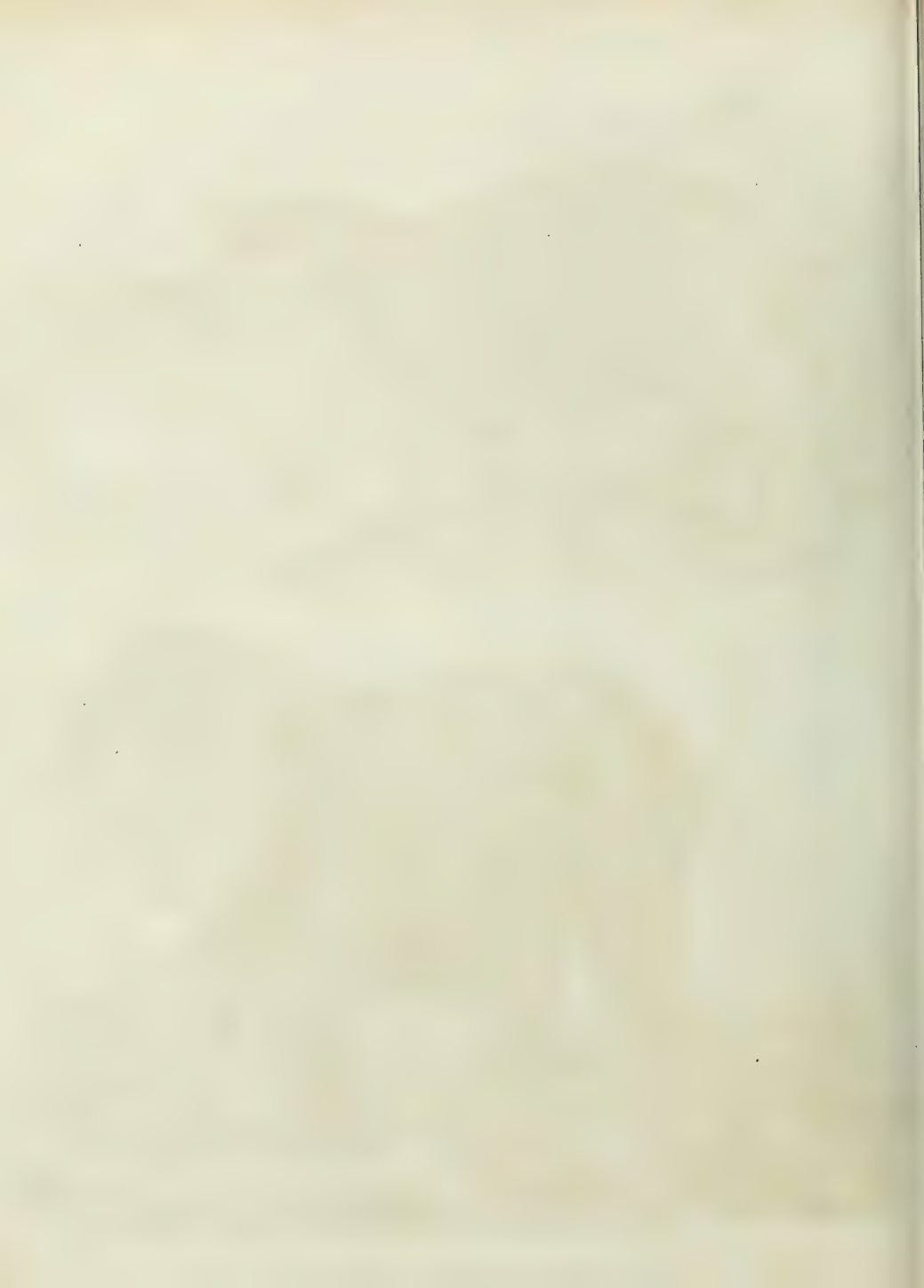
1 Race Horse Royalist. 2 The Hunter Skylark.



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'



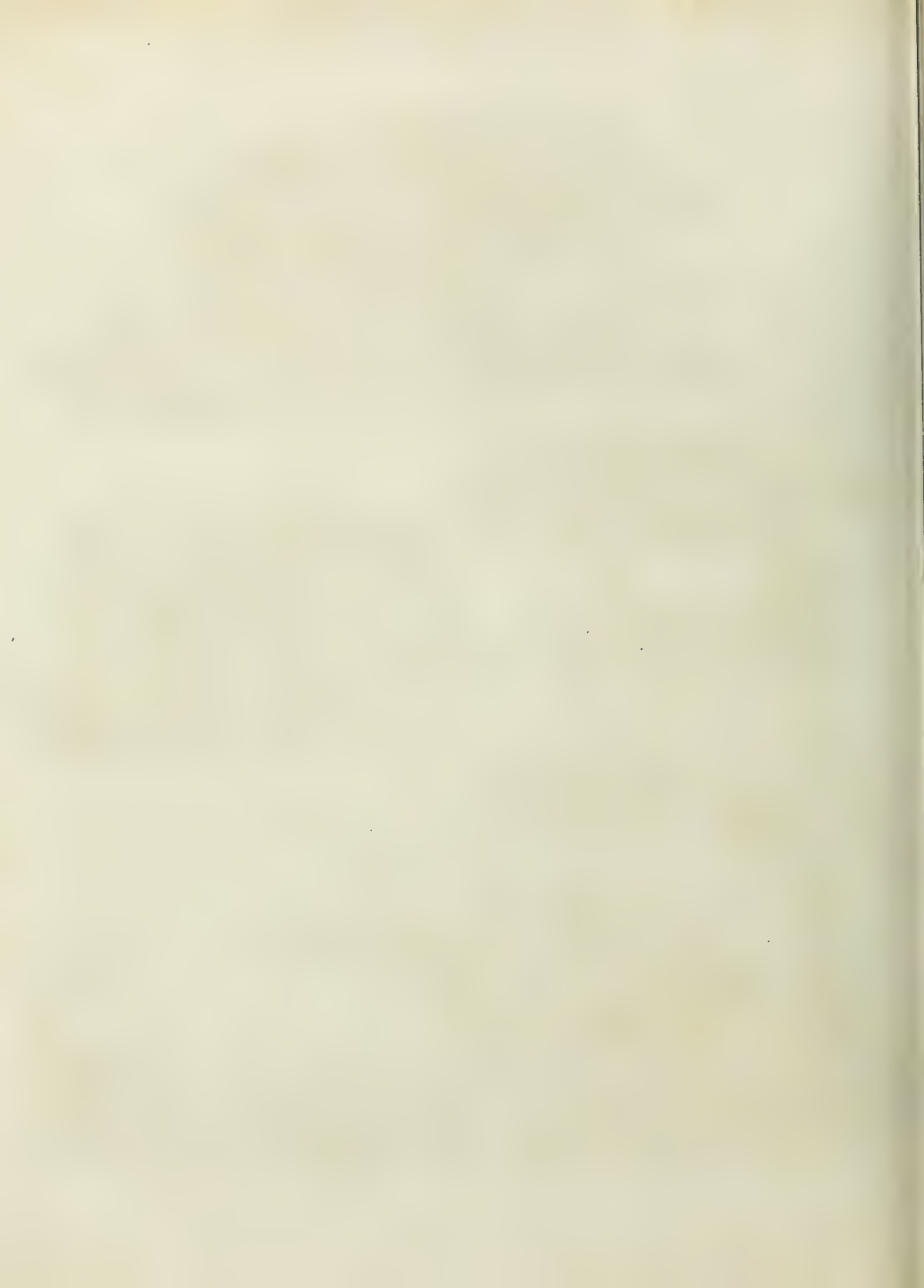


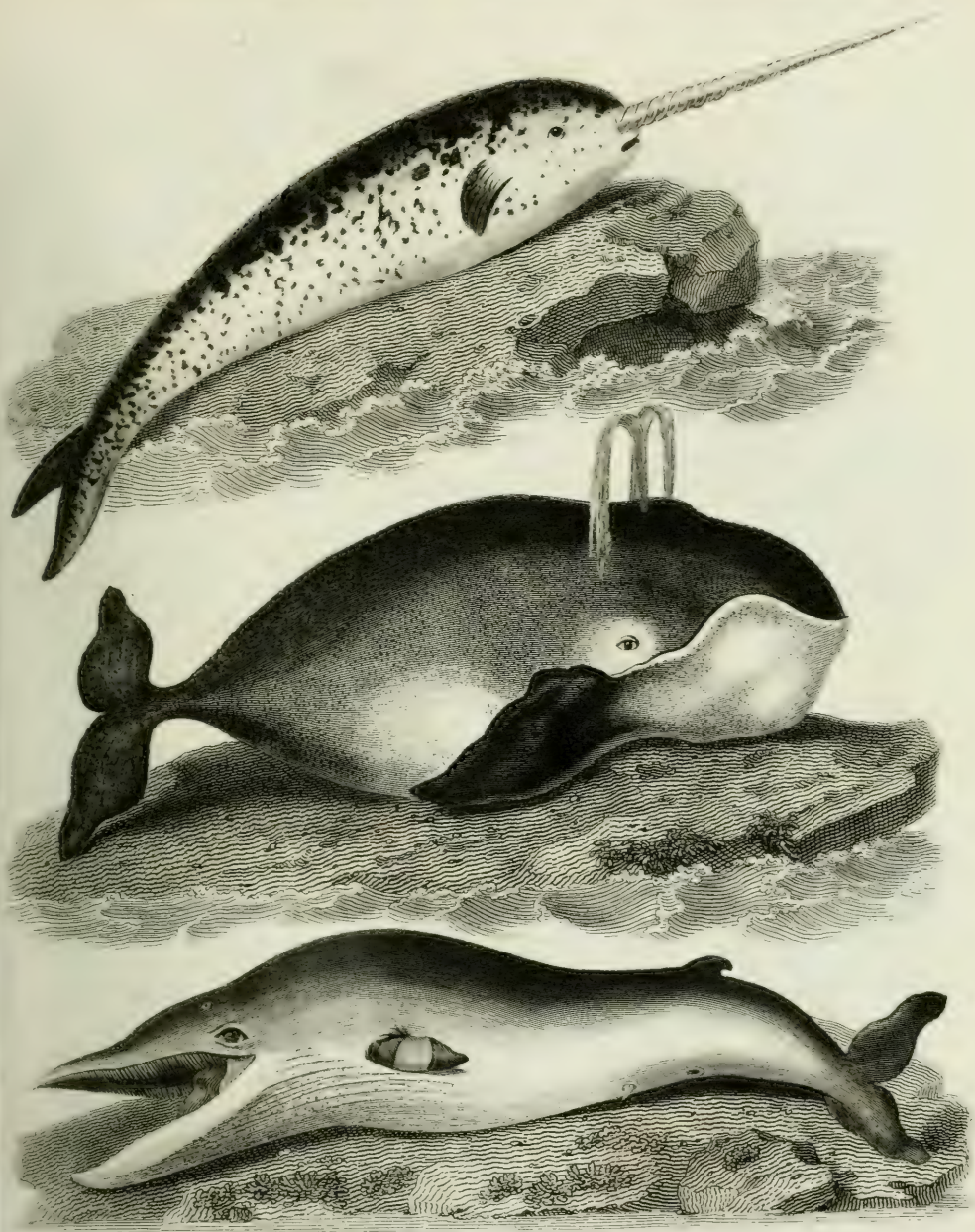
QUADRUPEDS.

CLASS MAMMALIA. ORDER BELLUÆ. GENUS SES. HOG.

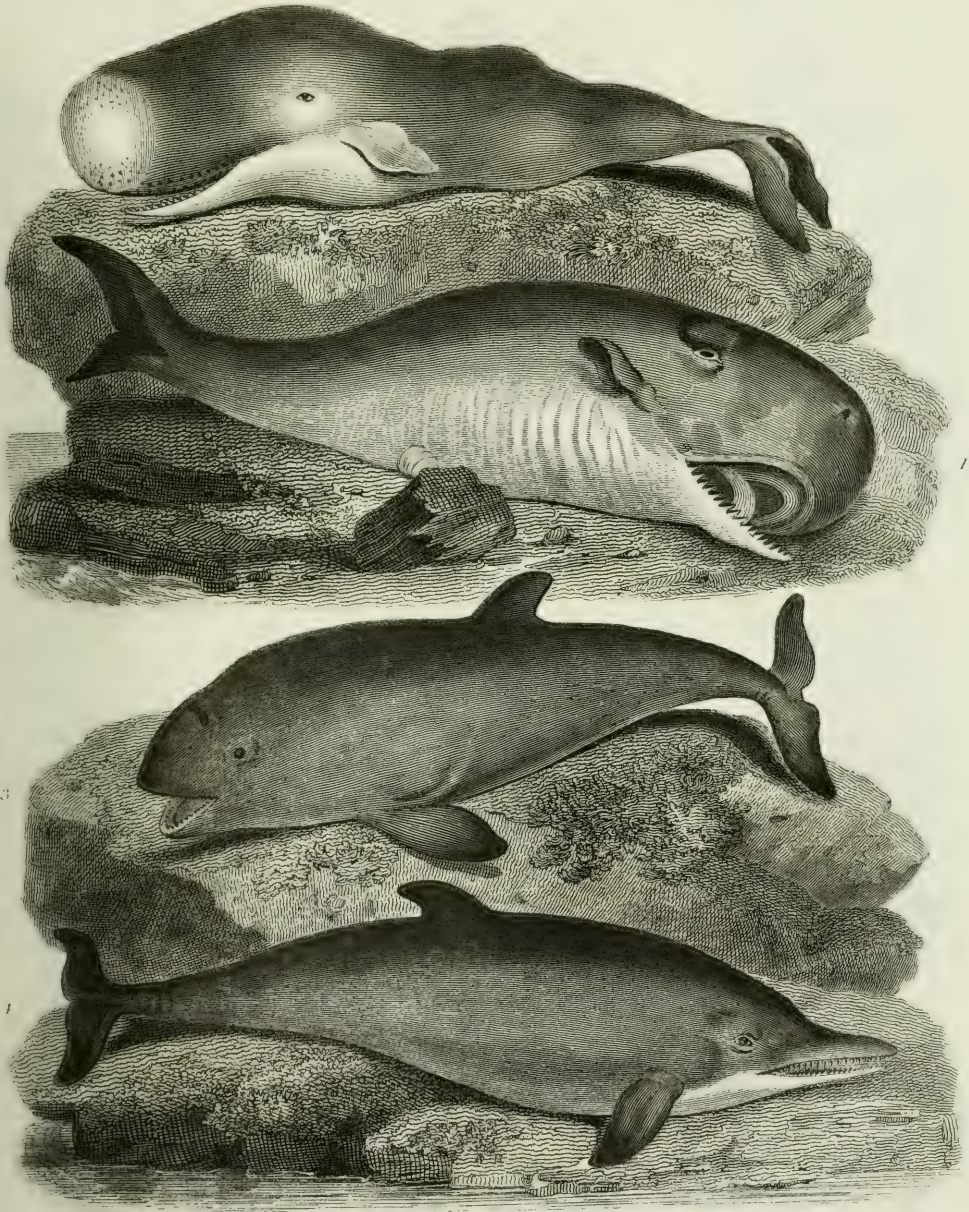


1. S. Senegal Wild Hog    2. S. Belluæ B. b. roufa    3. S. Æthiopicus. Æthiopian H.    4. 5. Domestic H.

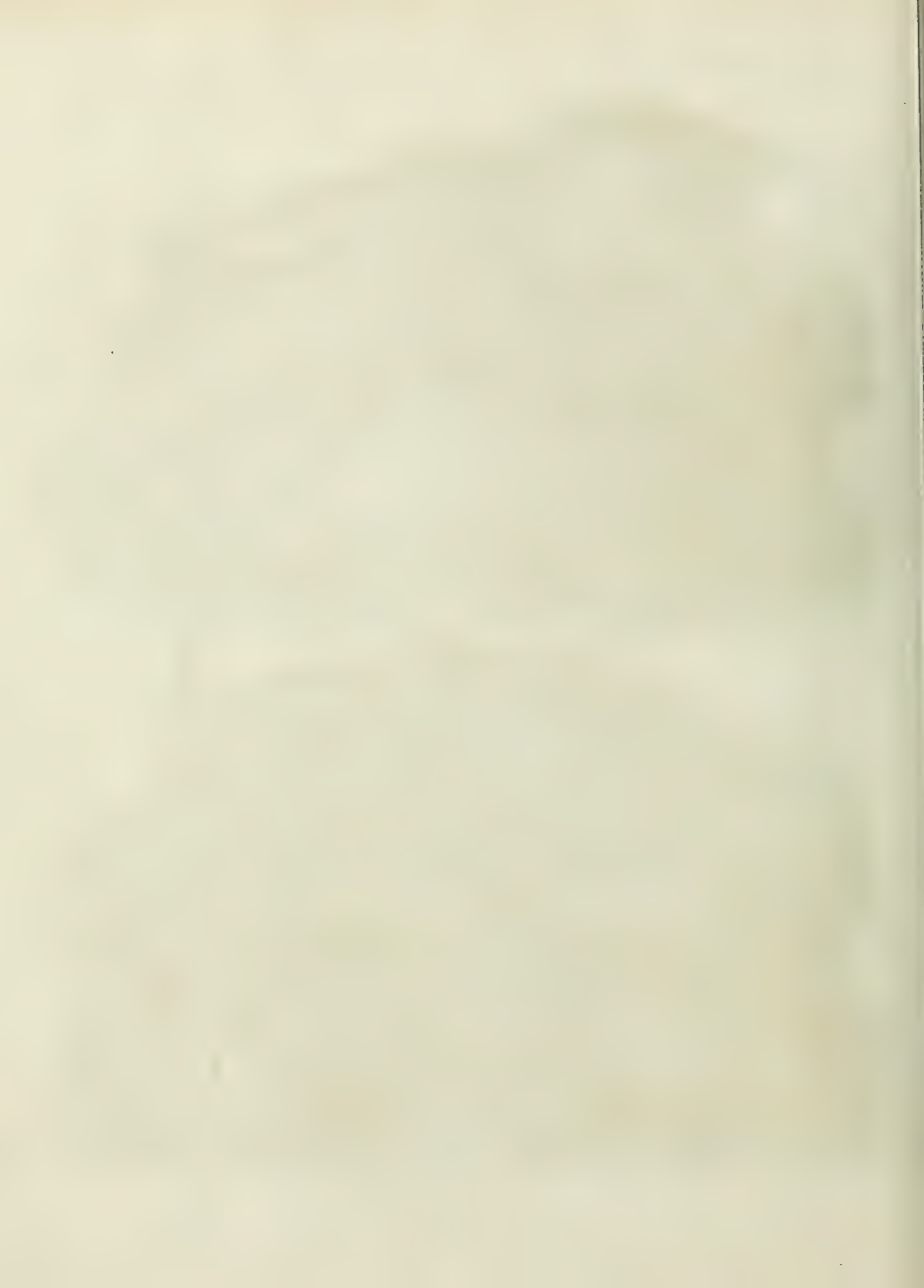








1. P. Macrocephalus. Blunt headed C. — 2. M. P. Gibbosus Schreb. Gibbous C. — 3. D. Phocoena Porpoise. — 4. D. Delphis Dolphin



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* .





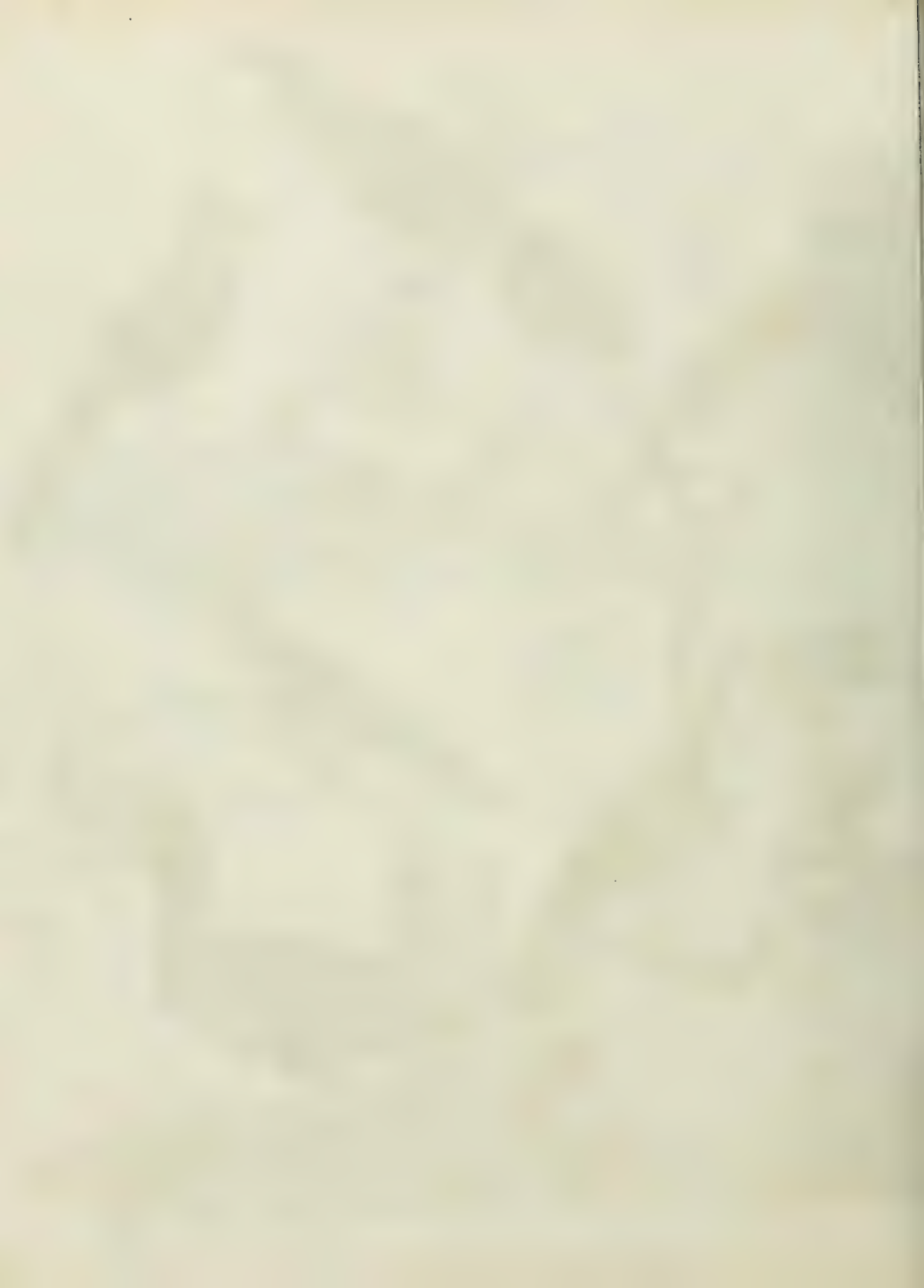
GENUS *PHYLLOGONIA*  
(Toucan)  
1. *P. bicolor*. - 2. *P. atriceps*.

*G. BUCEROS*  
(Hornbill)  
2. *G. albicollis*.

*G. MYIAGRA*  
(Beef Eater)  
1. *G. africana*.

*G. CROTOPHAGI*  
(Ani Bird)  
2. *G. major*.

*G. GLAUCOPIS*  
(Wattle Bird)  
6. *G. cinerea*.



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



GENUS *CORVUS* Cuv.

*G. CORACIAS* Bosc.

*C. G. G. G.*  
R. G. G.

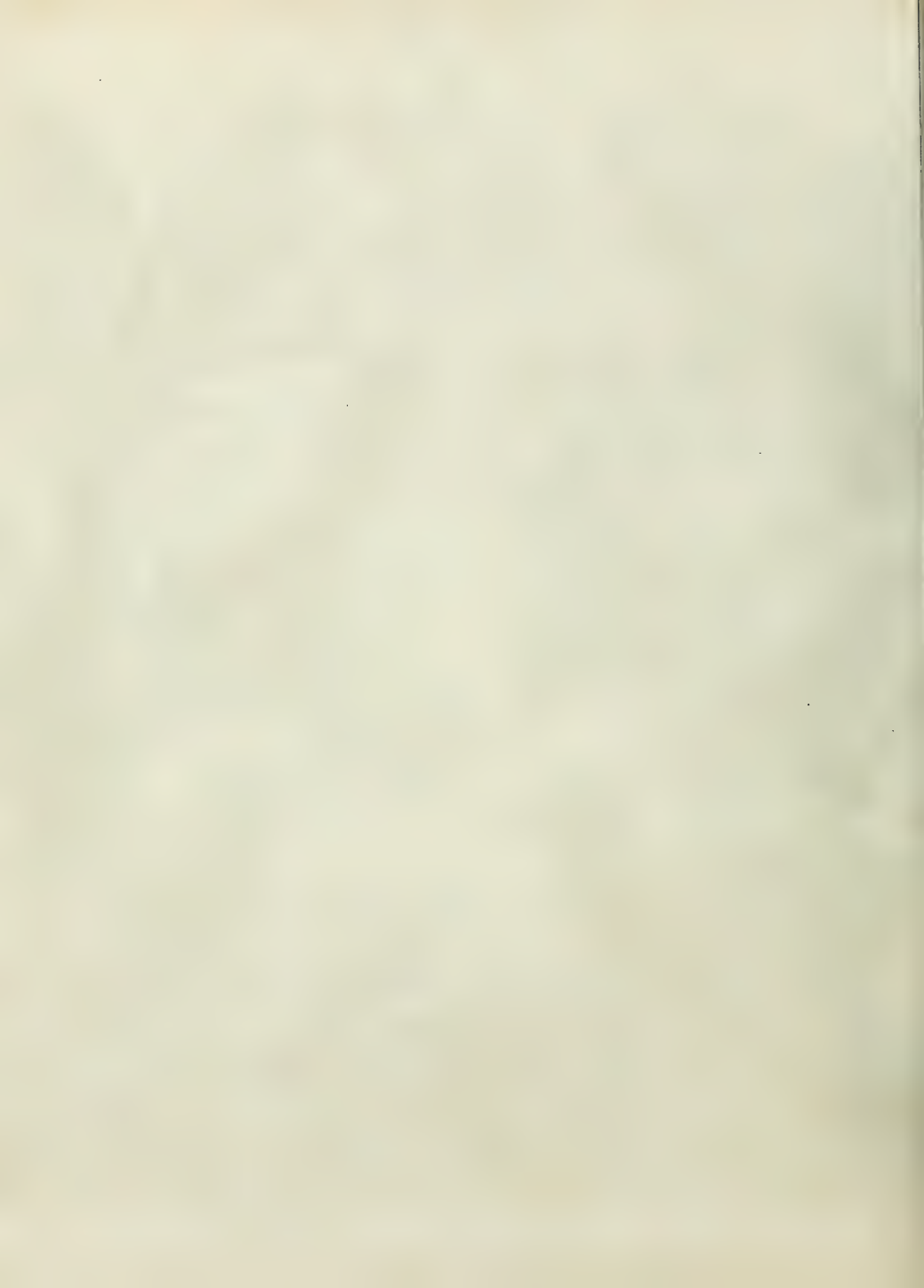
*C. L. L.*  
M. G. G.

*C. C. C. C.*  
N. G. G.

*C. C. C. C.*  
W. G. G.

*C. C. C. C.*  
O. G. G.

*C. C. C. C.*  
P. G. G.





GENUS ORNOLUS.  
(Oriole)

4 NEST of  
O. BALTIMORE.

GENUS CUCULUS  
(Cuckoo)

- 1. O. Cristatus.
- 2. O. Baltimore.
- 3. O. Persicus.
- CESTED O. BALTIMORE O. BLACK & YELLOW O.

- 5. C. Canorus.
- 6. C. Cuprens.
- 7. C. Indictor.
- COMMON C. CUCKOO'S C. HONEY GUIDE C.





Div. 1<sup>st</sup>. Land Birds. Order 2<sup>d</sup>. PICS.



GENUS CRACCI

Crackle

- 1. *G. Quiscal.*
- 2. *G. Carya.*
- 3. *G. Sauralis.*

VERRELL G.      BIRD G.      BULL G.

G. PARADISEI

Bird of Paradise

- 4. *P. Regina.*
- 5. *P. Ispida.*
- 6. *P. Java.*

KING BIRD & P.    GREATER BIRD & P.    GOLDEN BIRD & P.

G. TODUS

Tody

- 7. *T. Macrodon.*

GREAT BILLED





Genus TROGON.

(Caracui)

1. Y. Caracui

RED BELLED C.

G. BUCCO.

(Barbet)

2. B. Lathami. 3. B. Guyanensis var.

BLACK SPOTTED B.

G. VYX.

(Wynneck)

4. Y. Torquilla.

COMMON WYNECK

G. PICUS.

(Woodpecker)

5. P. F. Pileatus. 6. P. Carolinus var.

PLEATED W. CAROLINA WYNECK

G. SITT.

(Nuthatch)

7. S. Europæi.





GENUS ALCEDO

Kingsfisher

1. *A. Cristata*  
CRESTED K.

2. *A. Venerata*  
VENERATED K.

3. *A. Alcyon*  
BELTED K.

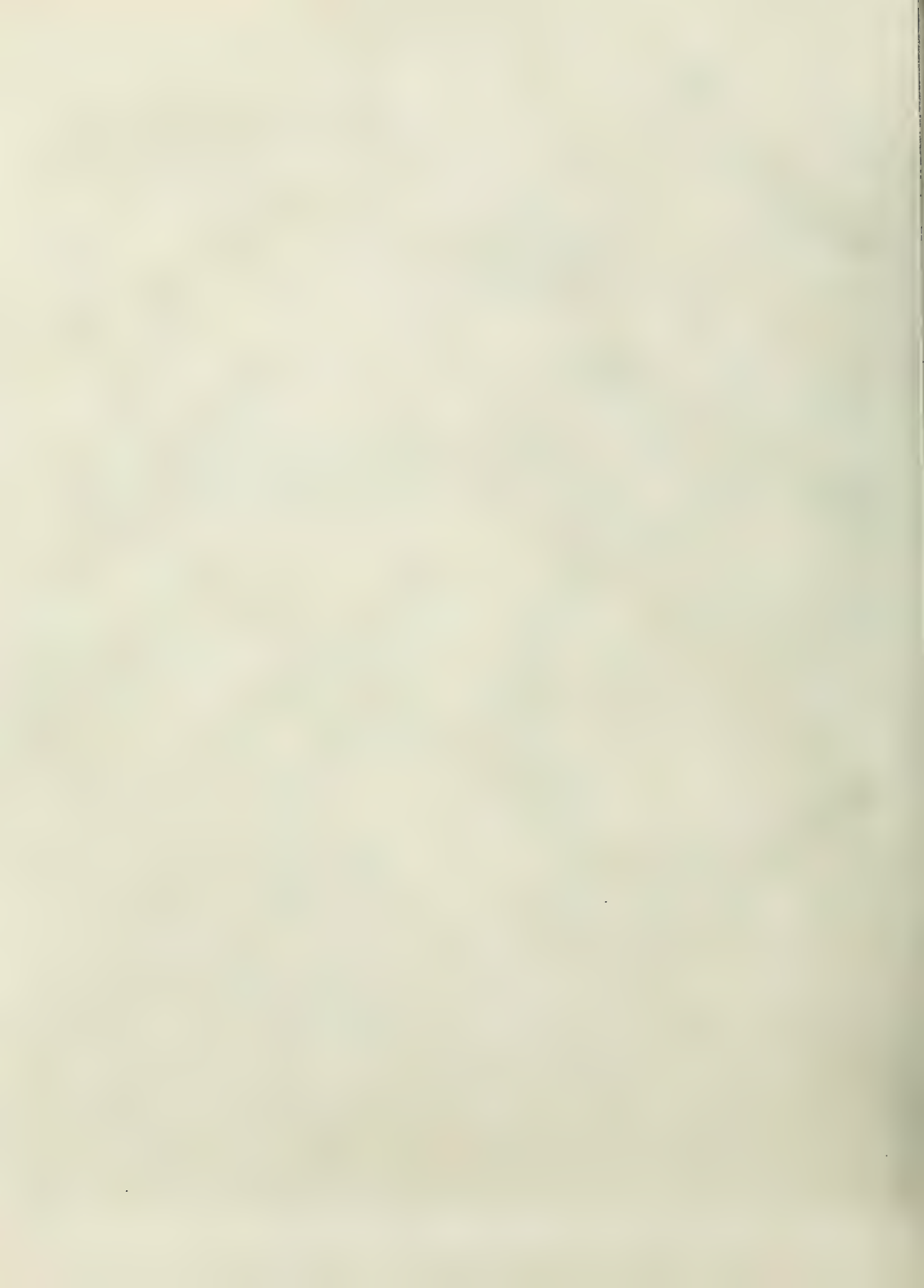
4. *A. Sacra*  
SACRED K.

G. GALBULA

(Jacamar)

5. *G. Paradiisus*  
PARADISE J.

6. *G. Viridis*  
GREEN J.





GEN'S MEROPS  
 (Bee Eater)

1. *M. Gurnedatus*.  
 WATTLED B.E.  
 2. *M. Novæ Zelandiæ*.  
 NEW ZEALAND B.E.

G. UPUPA  
 (Hoopoe)

3. *U. Pruniceps*.  
 CAPE H.  
 4. *U. Epops*.  
 COMMON H.

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

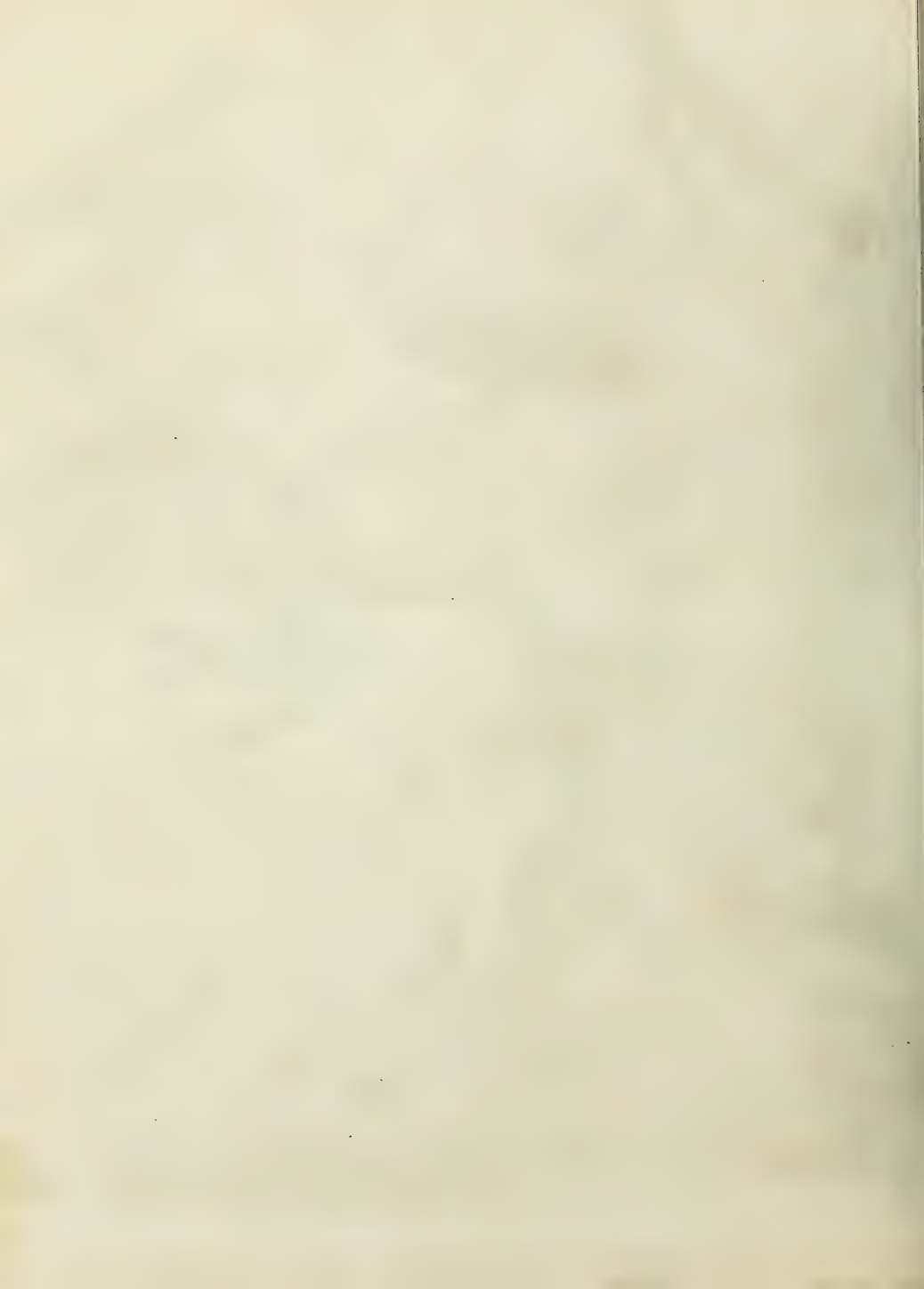


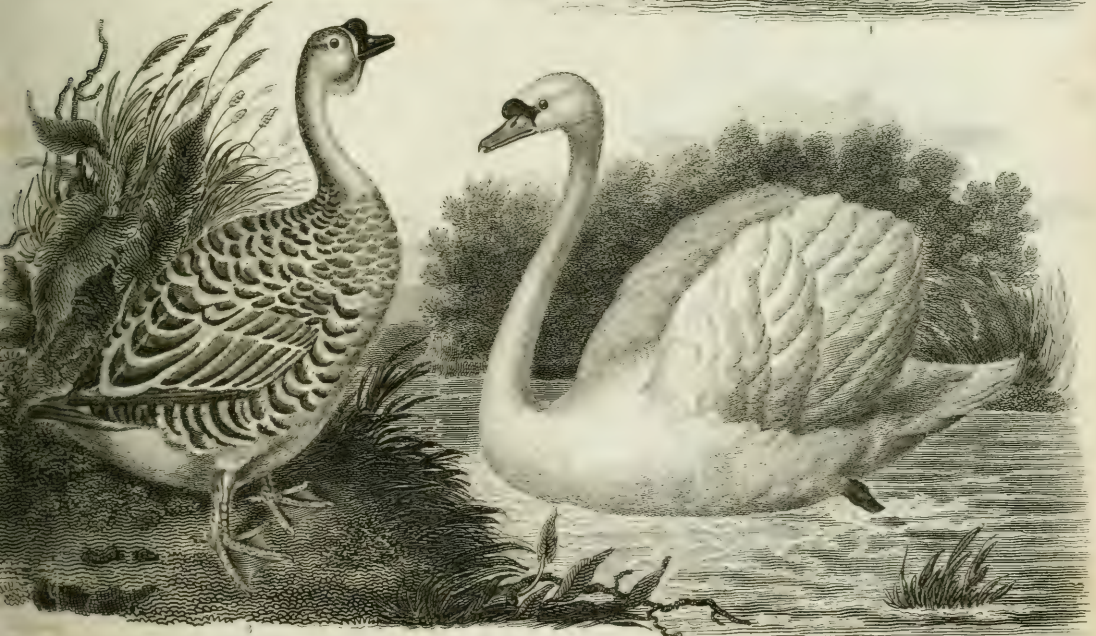




1. C. Pacifica    2. C. Obscura    3. C. Coccinea    4. C. Corallina    5. T. Ptila    6. T. Alpinus    7. T. Phoeniceus    8. T. Comatus    9. T. ...  
 10. HOOK-BILLED C.    HOOK-BILLED GREEN C.    HOOK-BILLED RED C.    BLACK C.    LONG-B.    LESSER FORKED TAIL'D HB.    CRESTED HB.    TUFTED NECK'D HB.    ...

Published at Van Nostrand's, No. 27 N. 2d St. N. York, by ...





GENUS *ANAS*

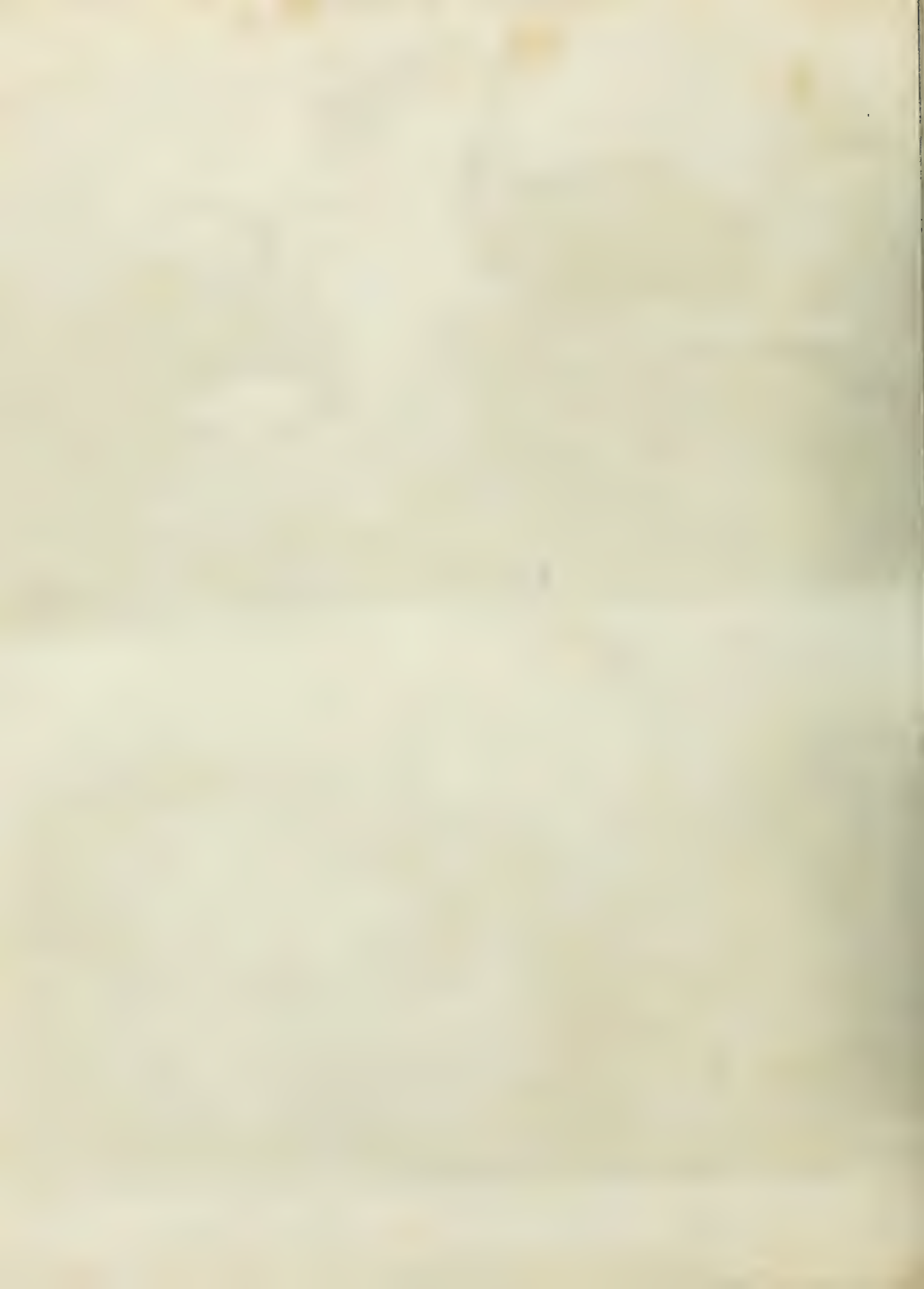
1. *A. Anas*.  
BLACK S.

2. *A. Obol.*  
TAME S.

(Swan)

3. *A. Cynoides*.  
CHINESE GOOSE.

4. *A. Gambel.*  
SPR WINGED G.





GENUS *ANAS*  
Swan

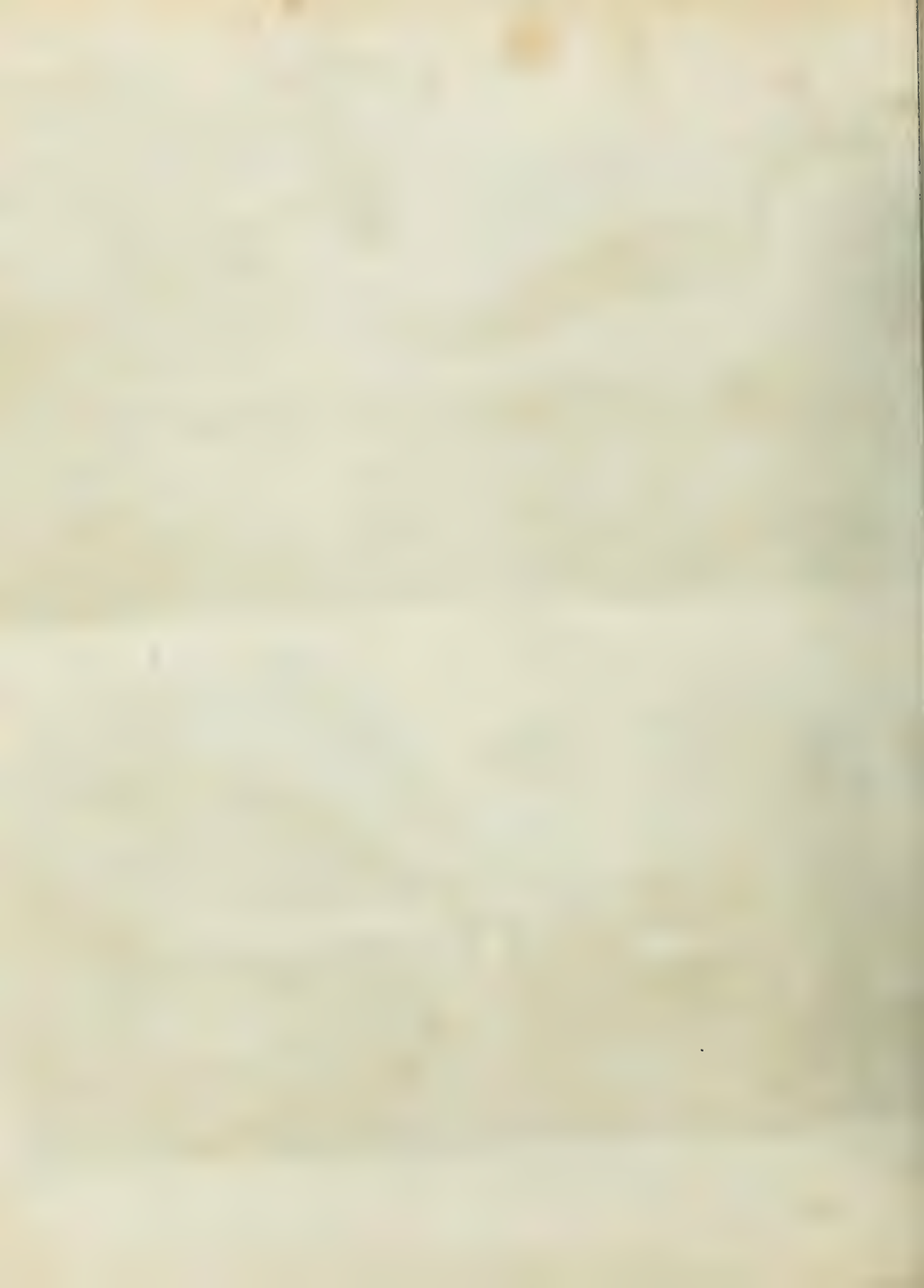
1. *A. erythropterus*.  
BERNACLE GOOSE

2. *A. canadensis*.  
CANADA G.

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

4. *A. moschata*.  
MUSCOVY D.

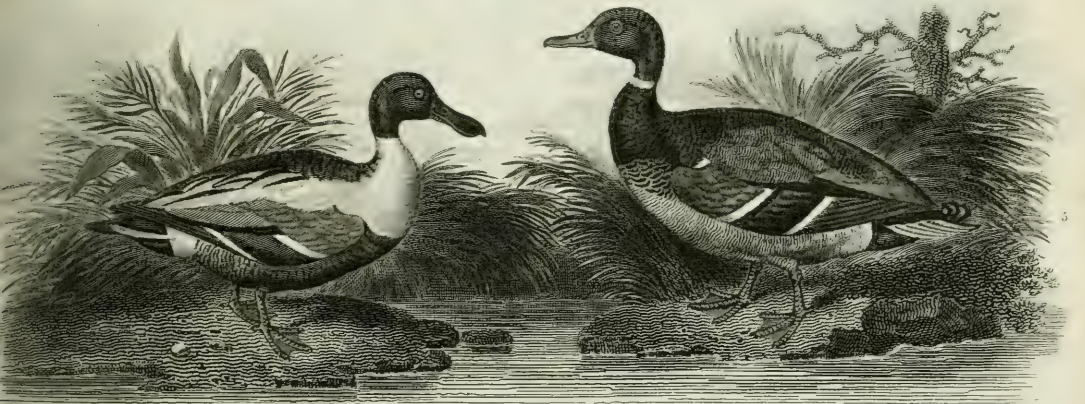
Published as the Act directs April 1<sup>st</sup> 1806 by Longman W. & Co. & Orme Paternoster Row.



ORNITHOLOGY.

Div<sup>o</sup> 2<sup>d</sup> Water Birds — Order 3<sup>d</sup> 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. Galariculata*.  
MANDRINE DRAKE.

Published as the Act directs, Sep. 1<sup>o</sup> 1807 by Longman Hurst, Brose & Orme, Printers to His Majesty.







GENUS Mergus

Merganser

1. M. Hispanus

2. M. Cinctatus

GOOSLINGER

CRESTED M.

3. M. Albellus

SMEW

GENUS Alca

(Auk)

4. A. Antiqua

ANCIENT I.

5. A. Cirrata

TUFTED I.

GENUS Aptenodytes

(Penguin)

6. A. Patagonica

PATAGONIAN P.

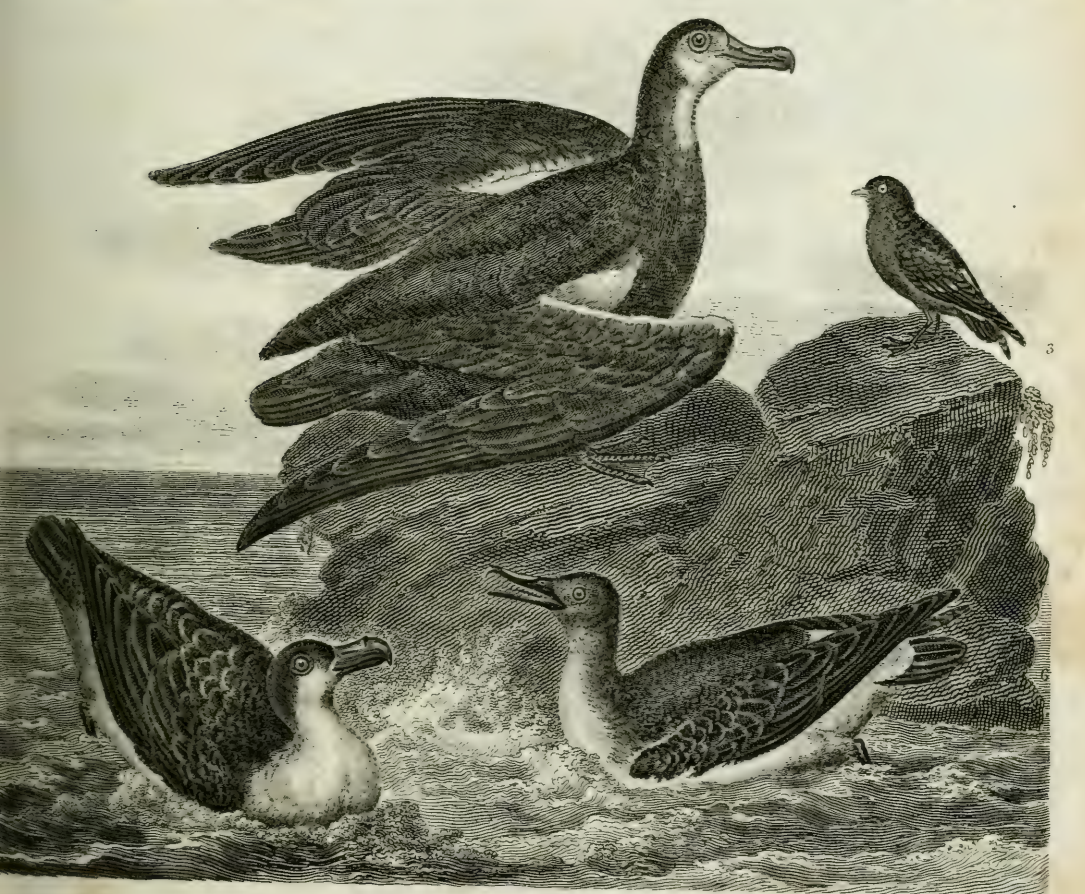
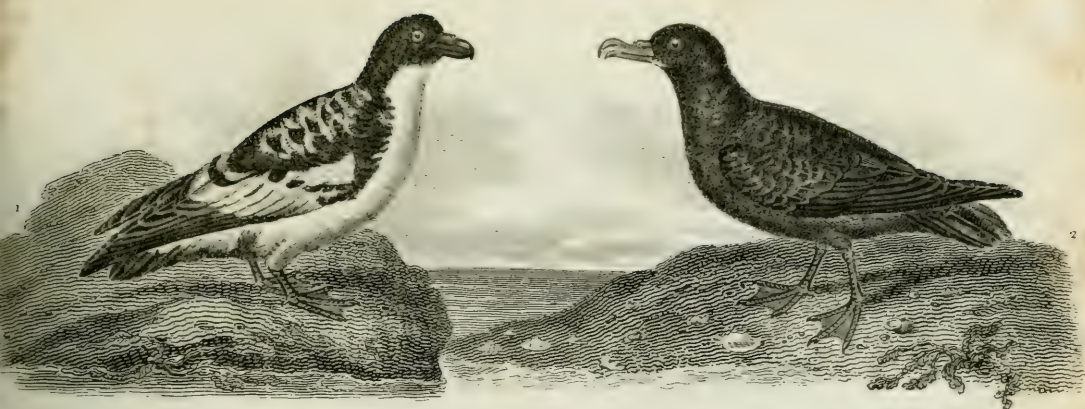
7. A. Papua

PAPUAN P.

8. A. M.

LITTLE P.





GENUS PROCELLARIA G DIOMEDIA

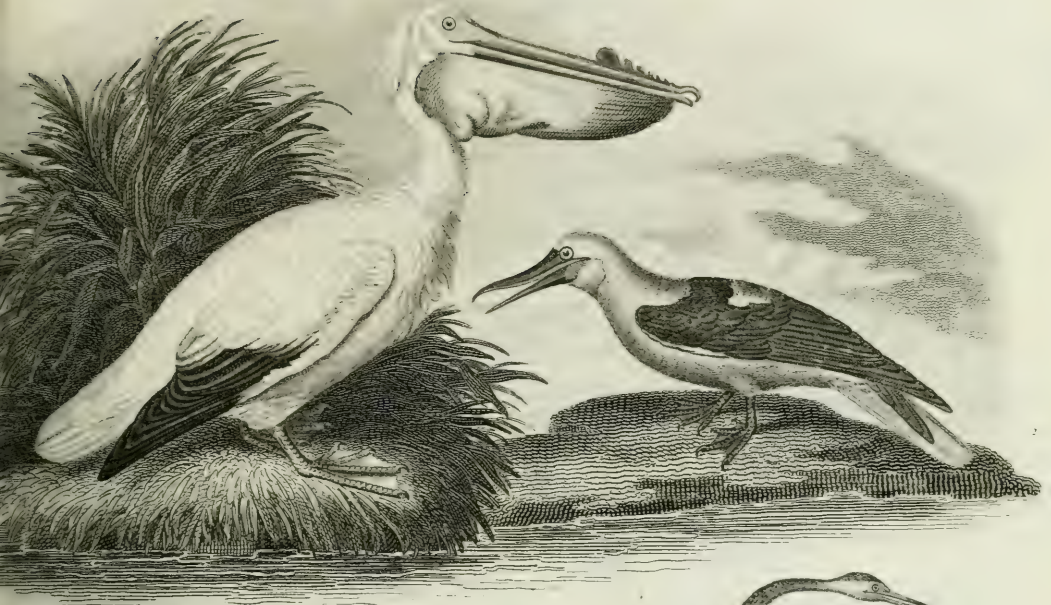
Petrel Albatross

- 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





GENUS PELECANUS  
Pelican

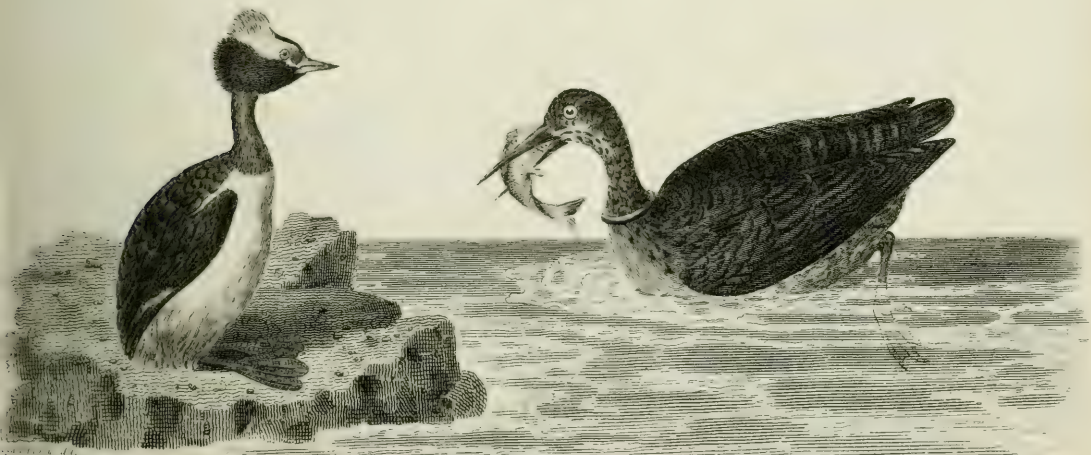
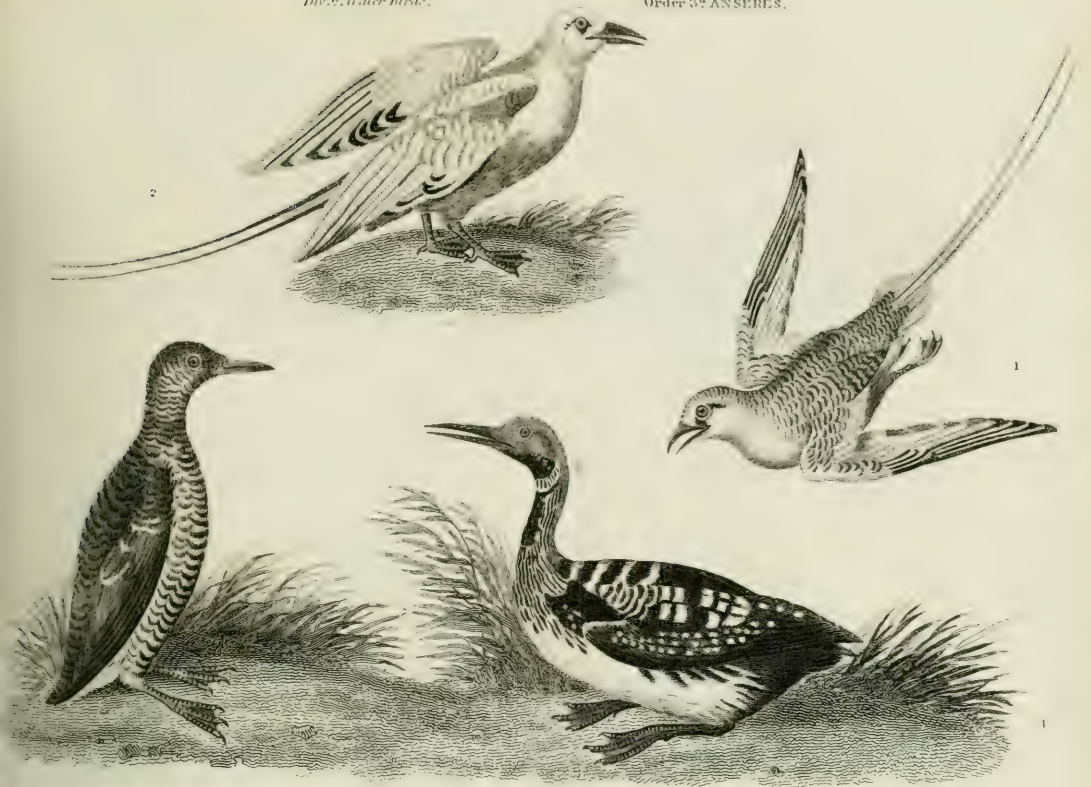
GENUS PLOTUS  
Dartec

1. P. *erythrorhynchos* 2. P. *erythrorhynchos* 3. P. *erythrorhynchos*  
 BROAD-BILLED P. BROAD-BILLED P. BROAD-BILLED P. BROAD-BILLED P. BROAD-BILLED P.



*Dive, Water Birds.*

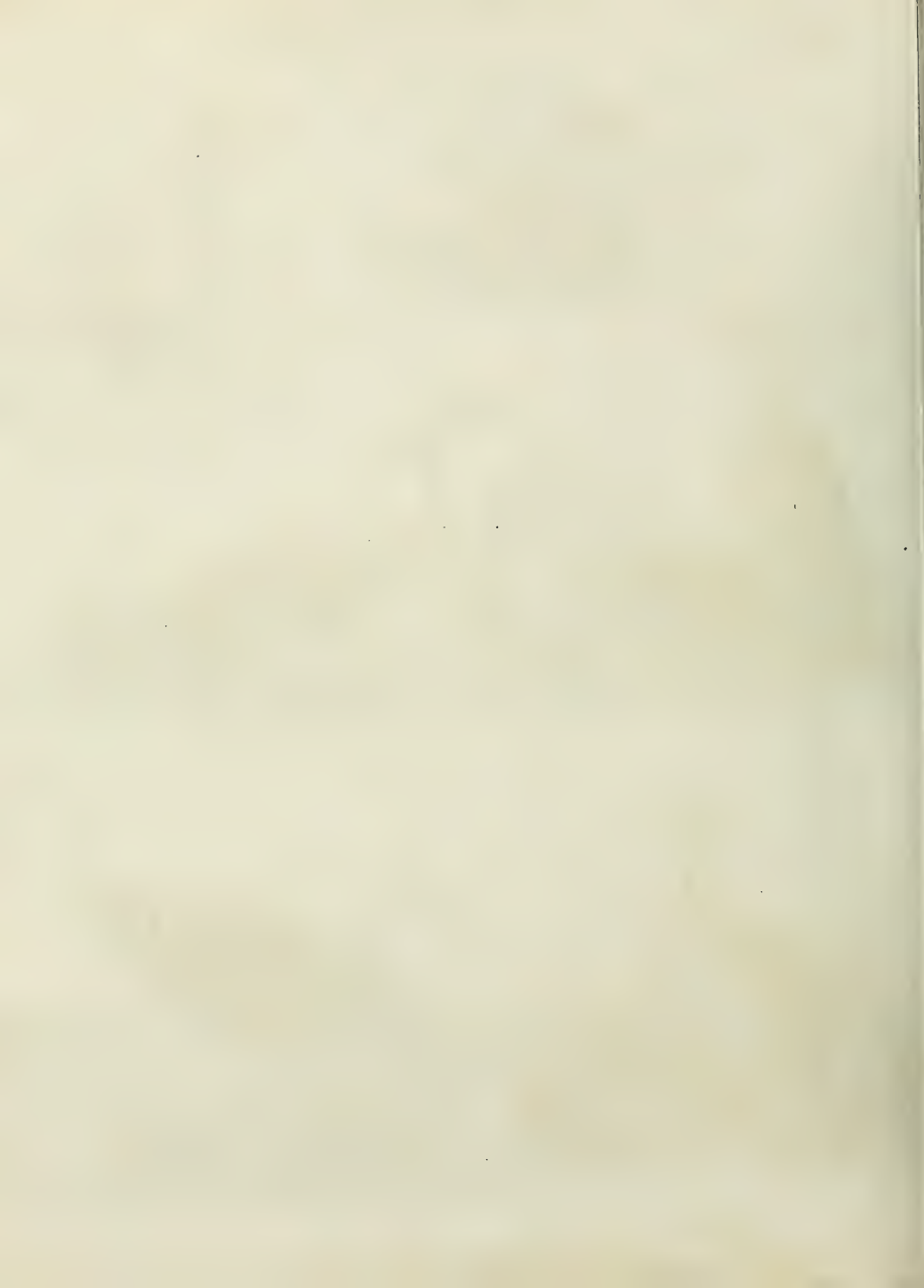
Order 3<sup>d</sup> ANSERES.



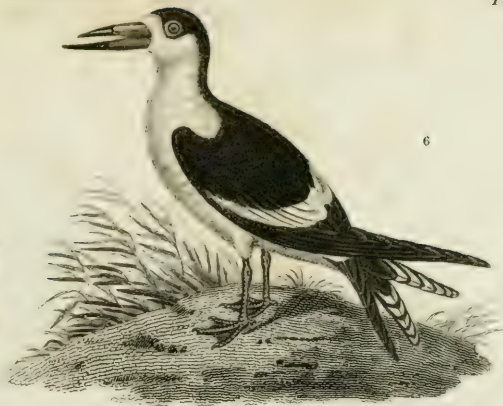
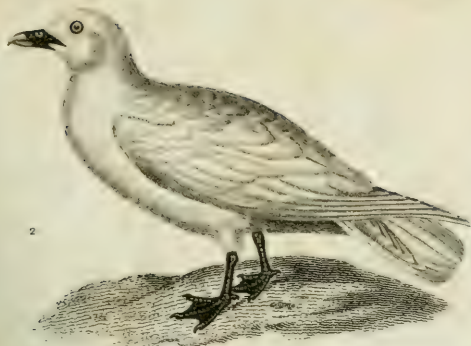
G. PILLAYON  
Engraver

GENUS COLYMBUS  
Gullinot, Diver, Grebe.

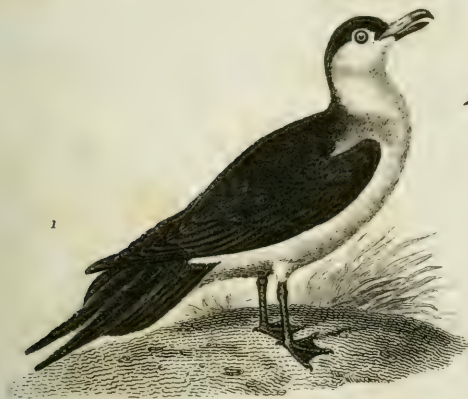
- |                   |                     |                      |                    |                    |                    |
|-------------------|---------------------|----------------------|--------------------|--------------------|--------------------|
| 1. <i>Ethiops</i> | 2. <i>Phasianus</i> | 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.          |



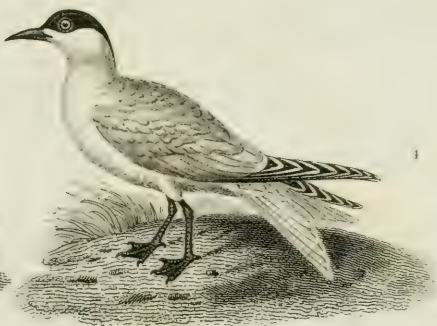




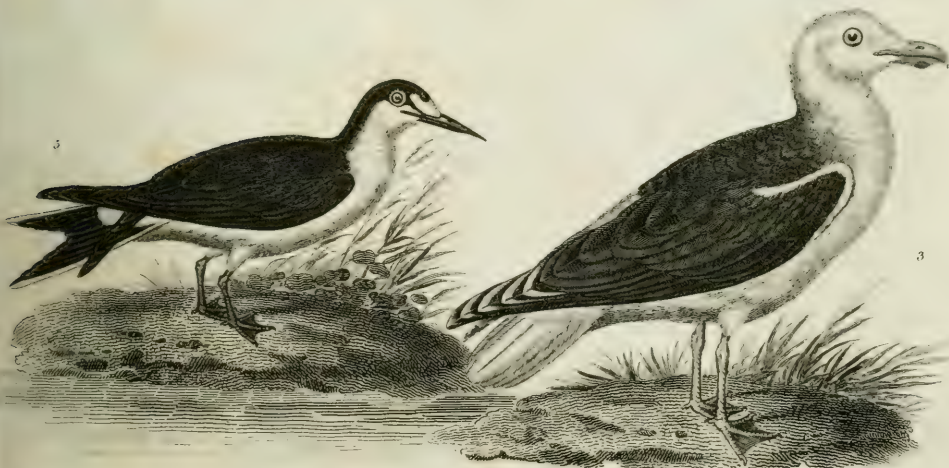
6



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. J. Edwards del.





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.





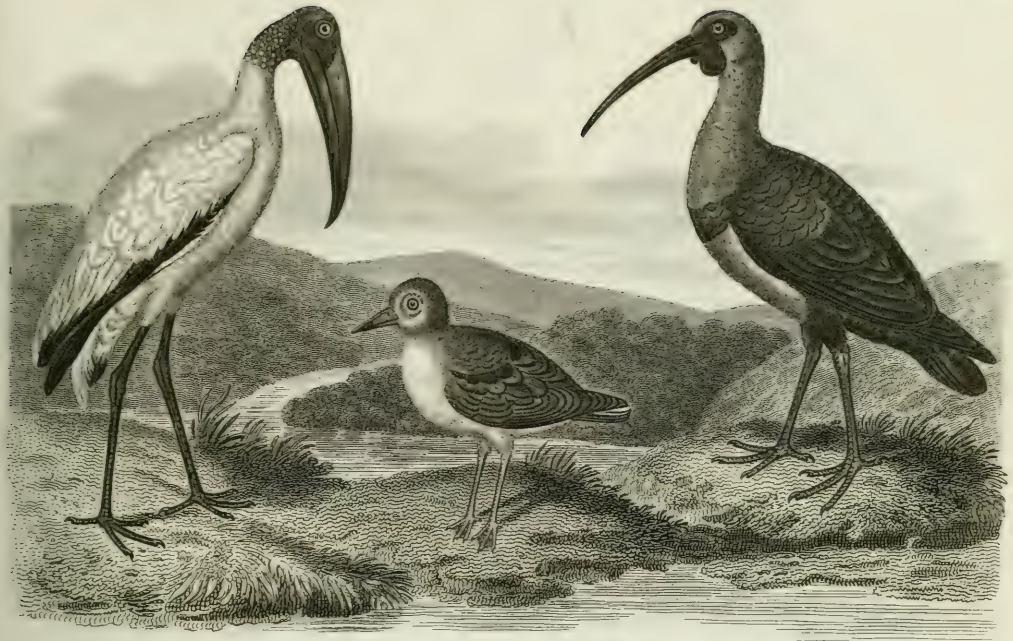
GENUS ARDEA  
Craue.

- |                      |                    |                     |                      |                      |
|----------------------|--------------------|---------------------|----------------------|----------------------|
| 1. A. <i>Ciconia</i> | 2. A. <i>Dubia</i> | 3. A. <i>Exilis</i> | 4. A. <i>Egretta</i> | 5. A. <i>Tigrina</i> |
| WHITE STORK          | GIGANTIC HERON     | MINUTE BITTLEN      | GREY EGRET           | TIGER BITTLEN        |

Published at the Art Store, No. 15, by Long, Green & Brown, 1840.







GENUS TANTALUS

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

G. CORRIRA

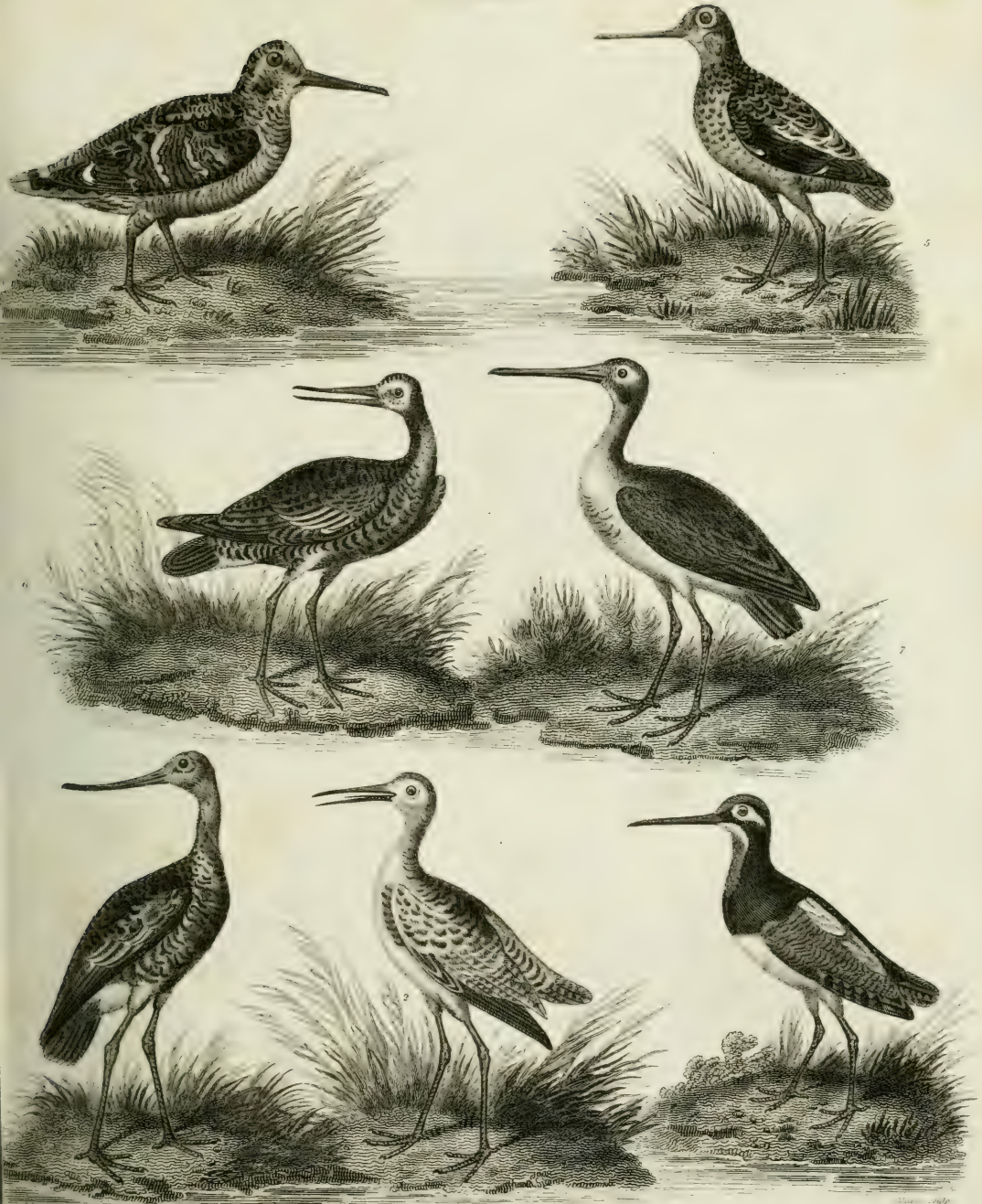
- (Courier)
- 4. C. Italica ITALIAN C.

G. SCOLOPAX

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



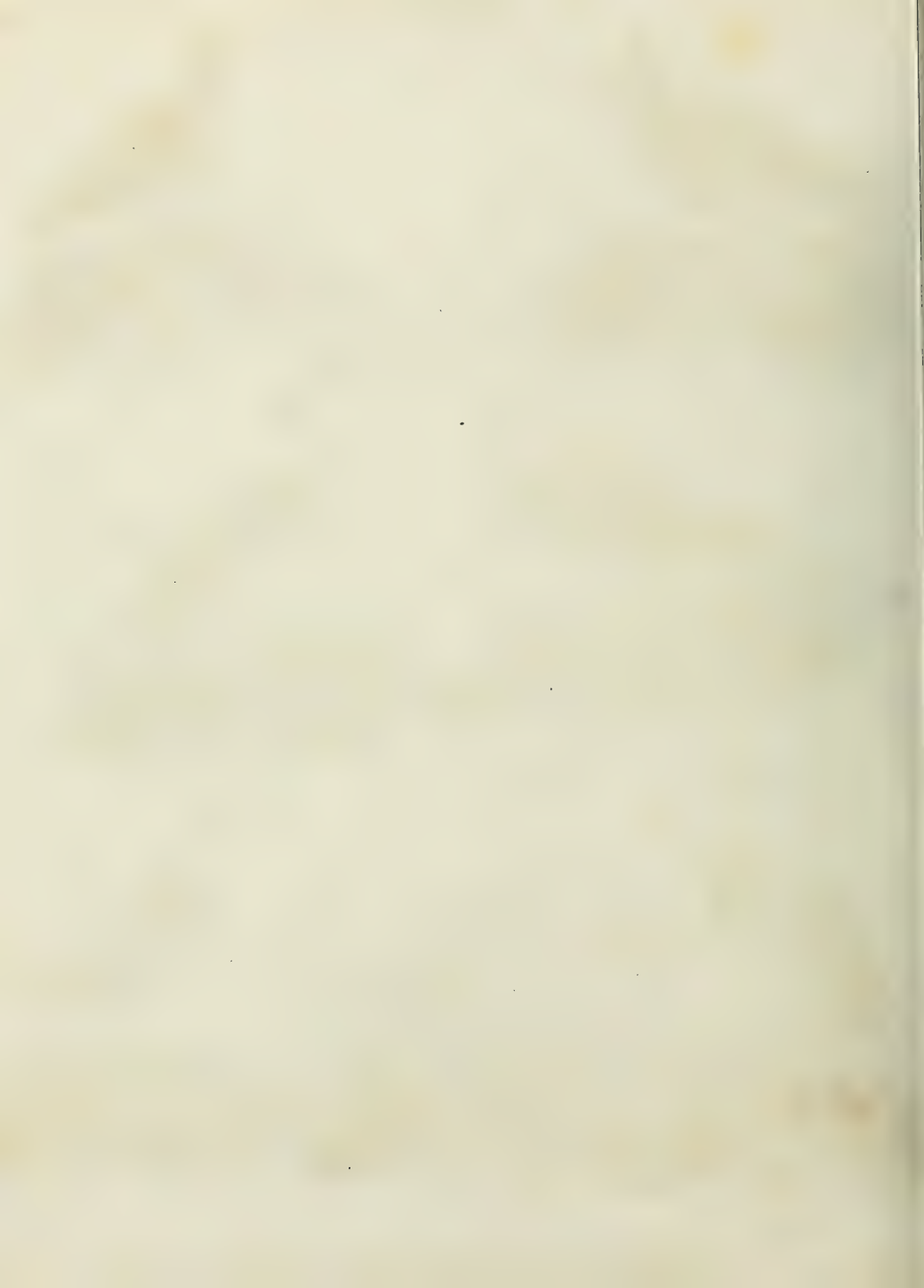
Order GRALLÆ.

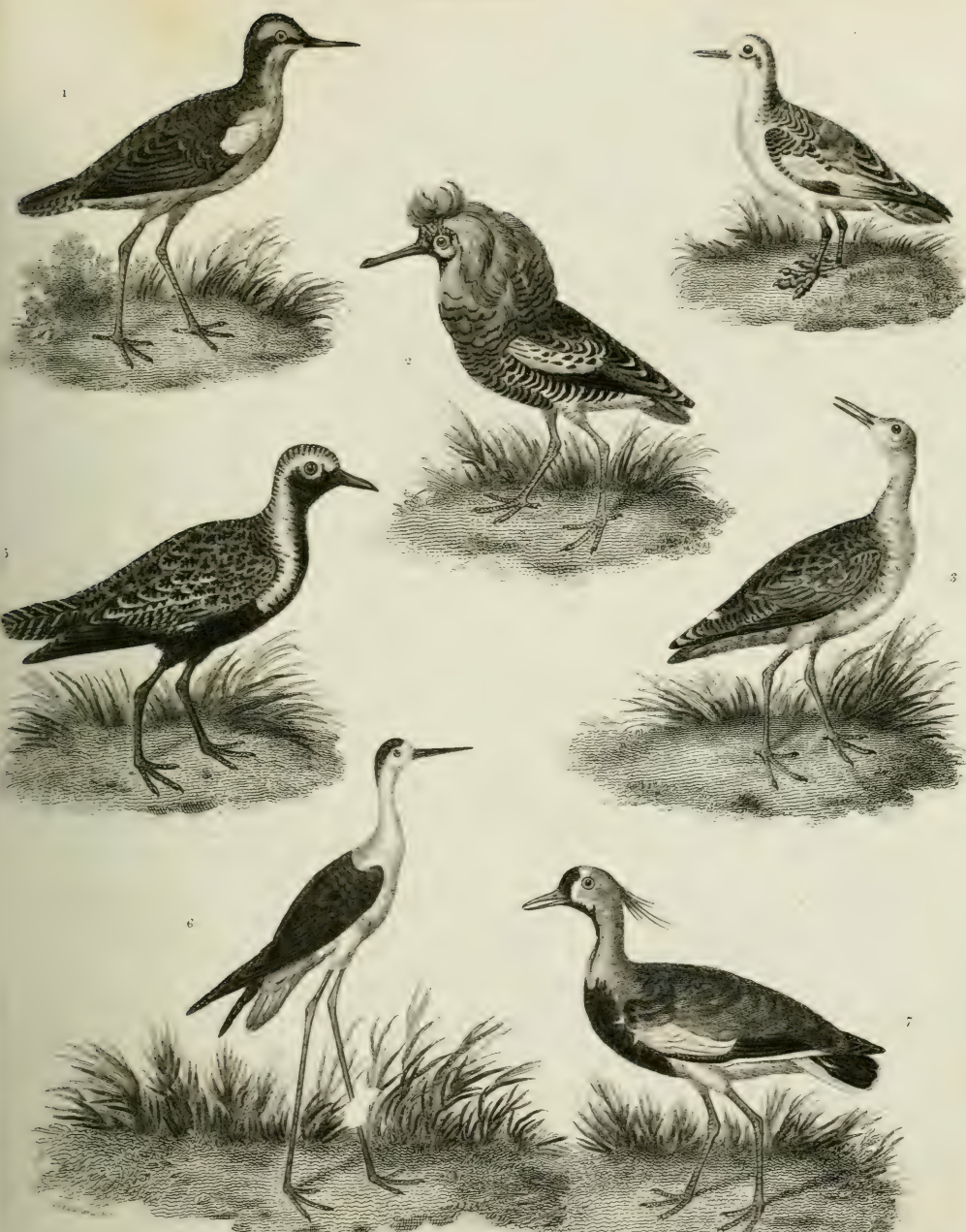


GENUS SCOLOPAX

- |                 |                 |                |                 |             |                 |              |
|-----------------|-----------------|----------------|-----------------|-------------|-----------------|--------------|
| 1. S. Lapponica | 2. S. Candida   | 3. S. Capensis | 4. S. Rusticola | 5. S. Major | 6. S. Fecula    | 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 TITLARK

5 *C. apricarius*  
LEWIS BIRD

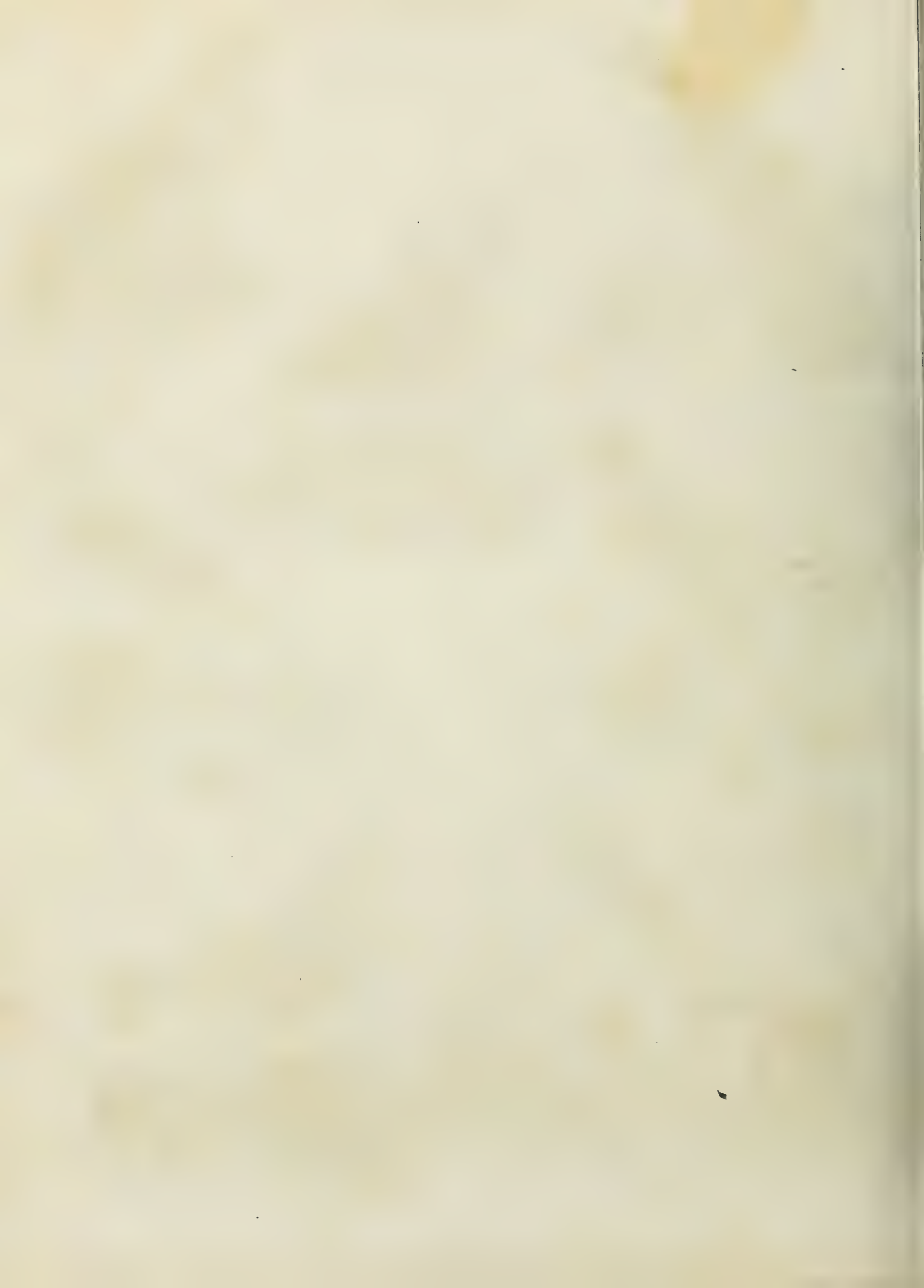
G. CILICADRIUS

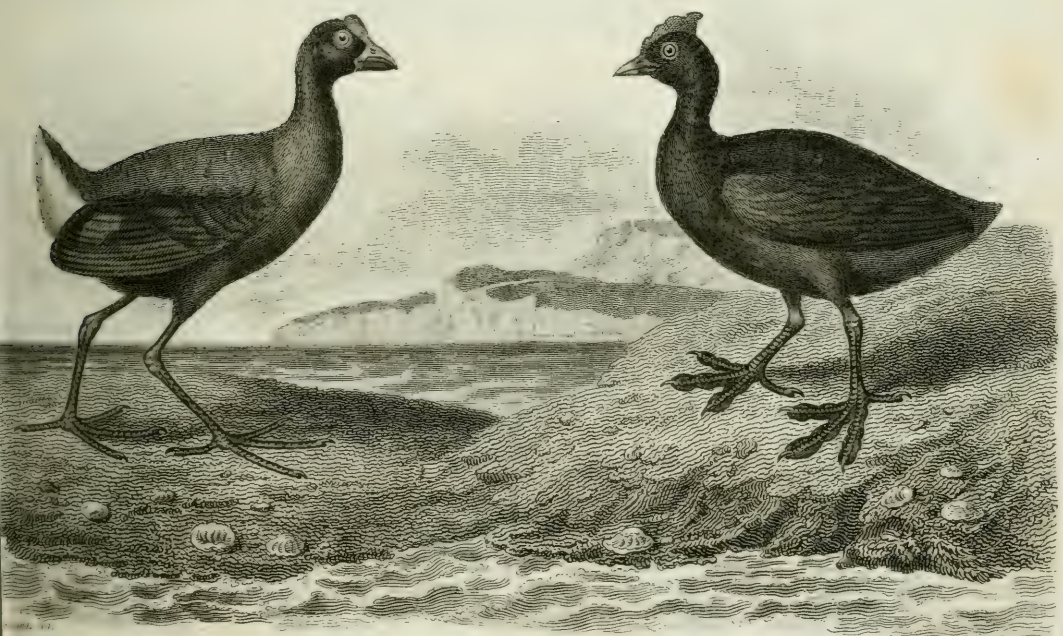
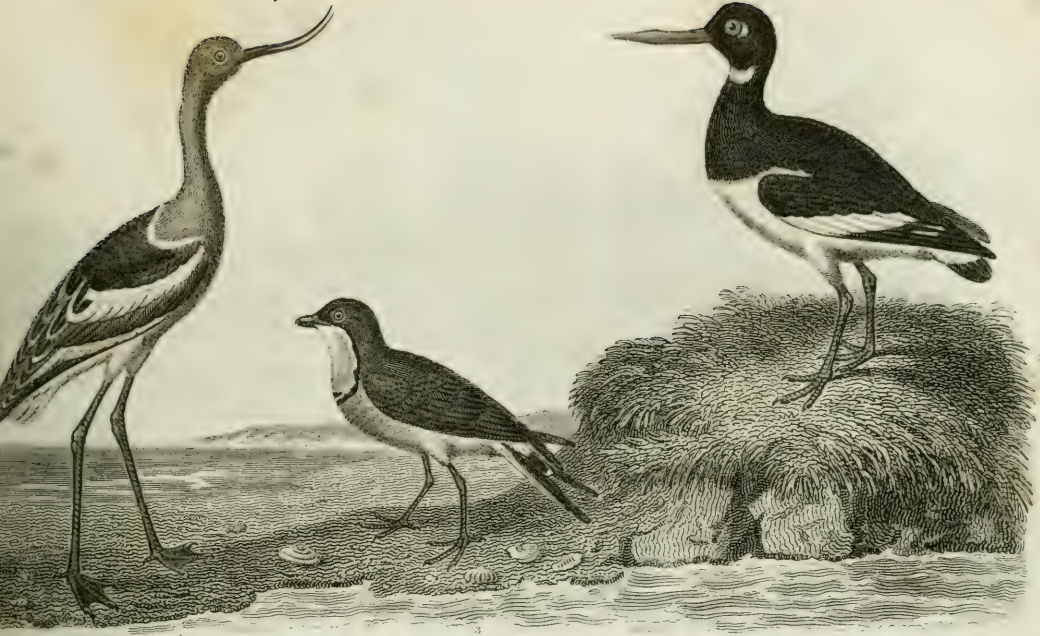
Plover

6 *C. Minantopus*  
LONG LEGGED P.

7 *C. spinosus*  
SPUR WINGED P.

Published as the Act of Congress, Sep. 1<sup>st</sup> 1849, by Leitch & Arbeve, Printers, No. 18 Brown, District of Columbia.





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

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

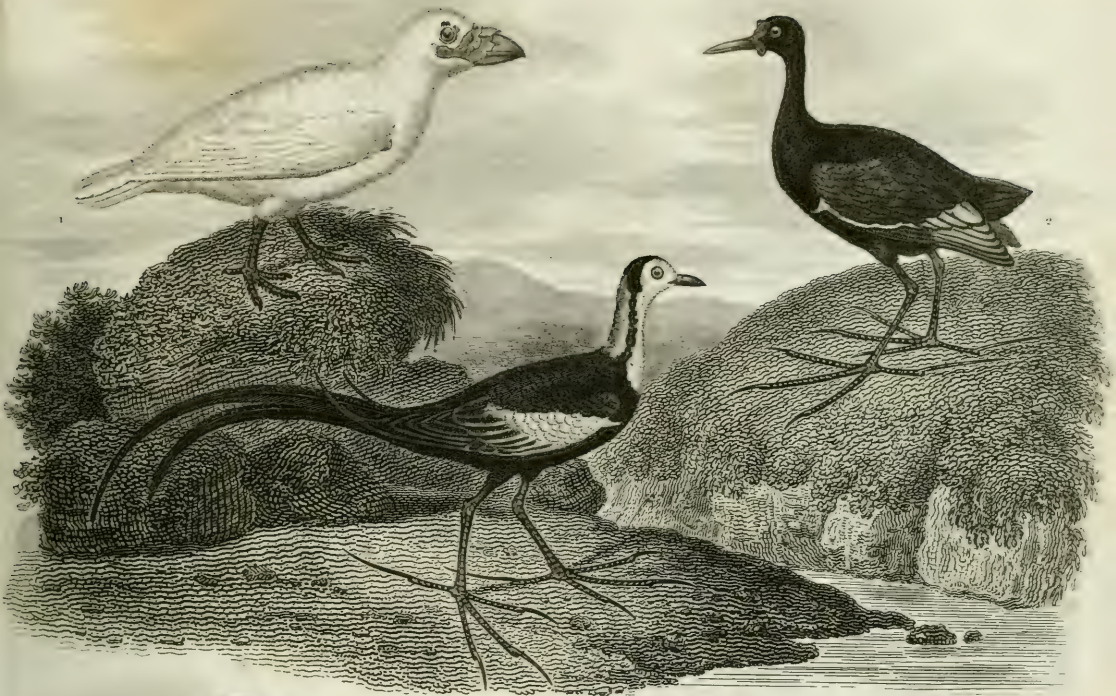
**G. GLAREOLA**  
(Tringa)  
3. G. Austriaca  
AUSTRIAN T.

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

Published at the Art directors' Exhibition by Leypman, Hanft, Ross, Orme, & Bowen, Paternoster Row.







G. VAGINALIS

1. N. alba

WHITE SHEATH BILL

GENUS PARIA

2. P. Jacana

3. P. Sinensis

CHESTNUT JACANA

CHINA J.

G. GALLUS

4. R. Crer

5. B. variegatus

LAND BIRD VARIEGATED R.

G. PSOPHIA

6. P. crepitans

GOLD BREASTED TRUMPETER





GENUS OTIS

(Bustard)

O. *Tarda*.

GREAT B. Male & Female.

3. S. *Rhet.*

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. Cervinus, OSTRICH* Male. 3. Female.





GENUS PAVO.  
Peacock

1. *P. cristatus*.  
COMMON PEACOCK.

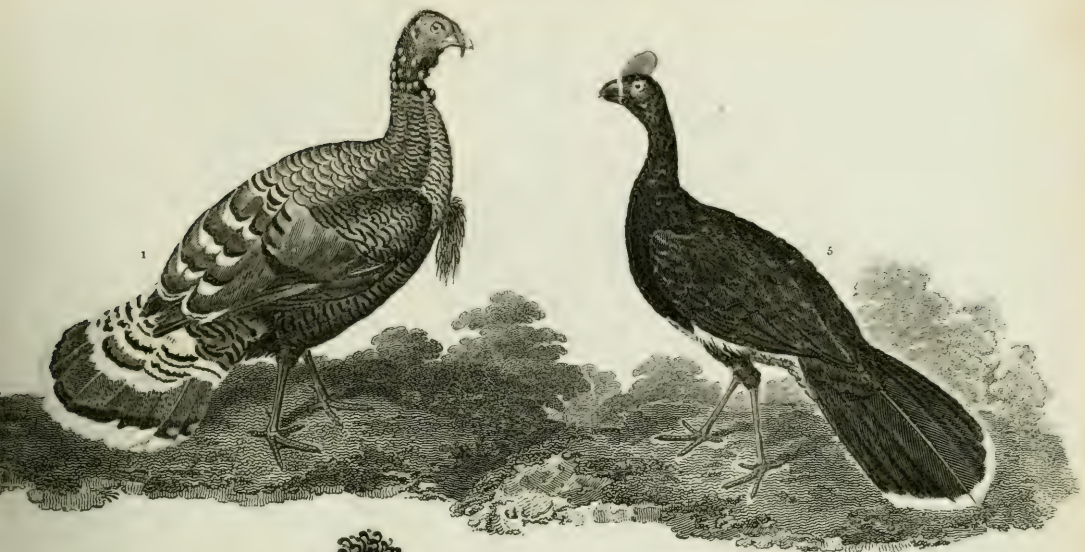
2. *P. cristatus v. varius*.  
VARIEGATED or PIED PEACOCK.

3. *P. cristatus var. albus*.  
WHITE PEACOCK.

4. *P. bicalcaratus*.  
IRIS PEACOCK.



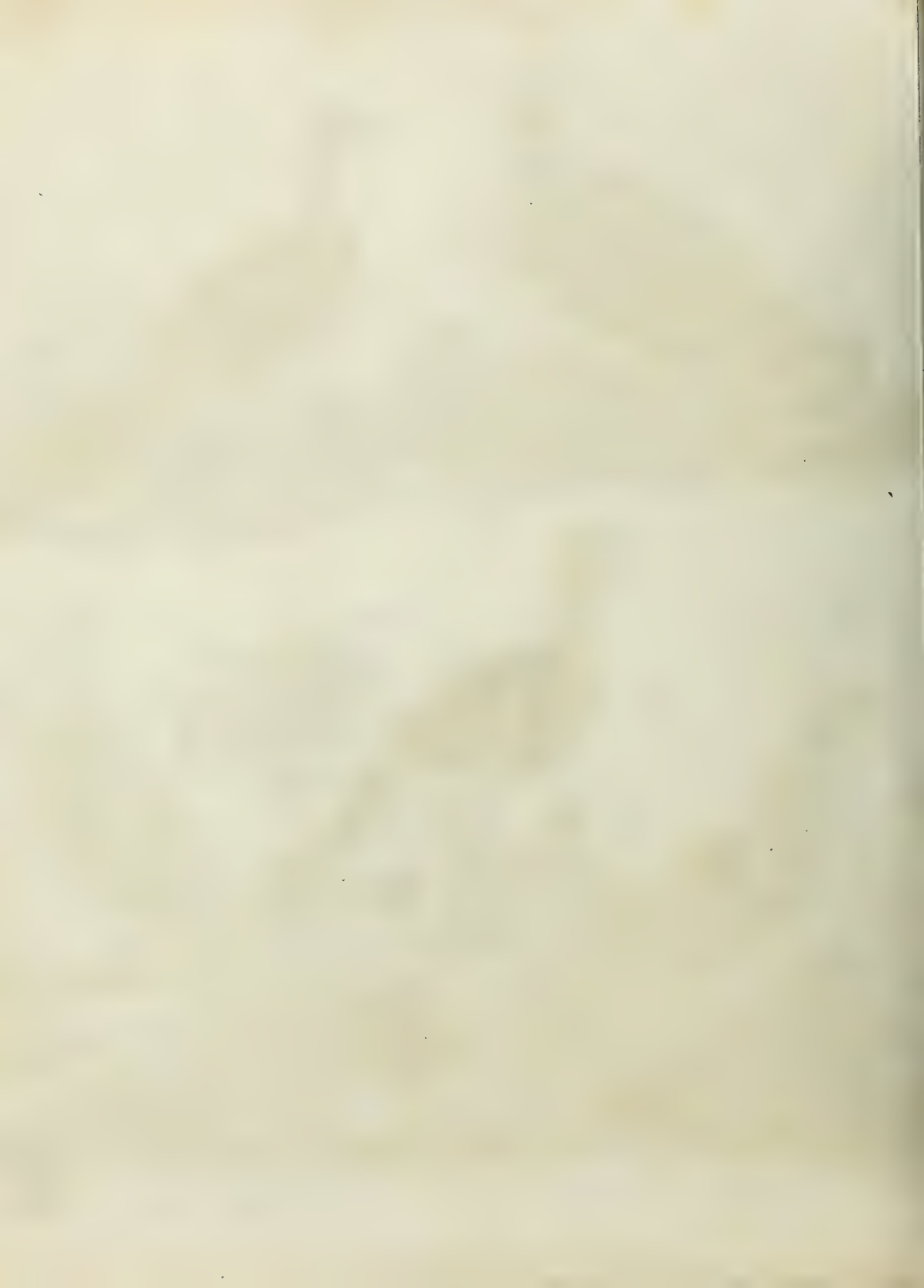




GENUS MELEAGRIS (Turkey)  
 1. *M. Gallipavo*.  
 AMERICAN WILD TURKEY.

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

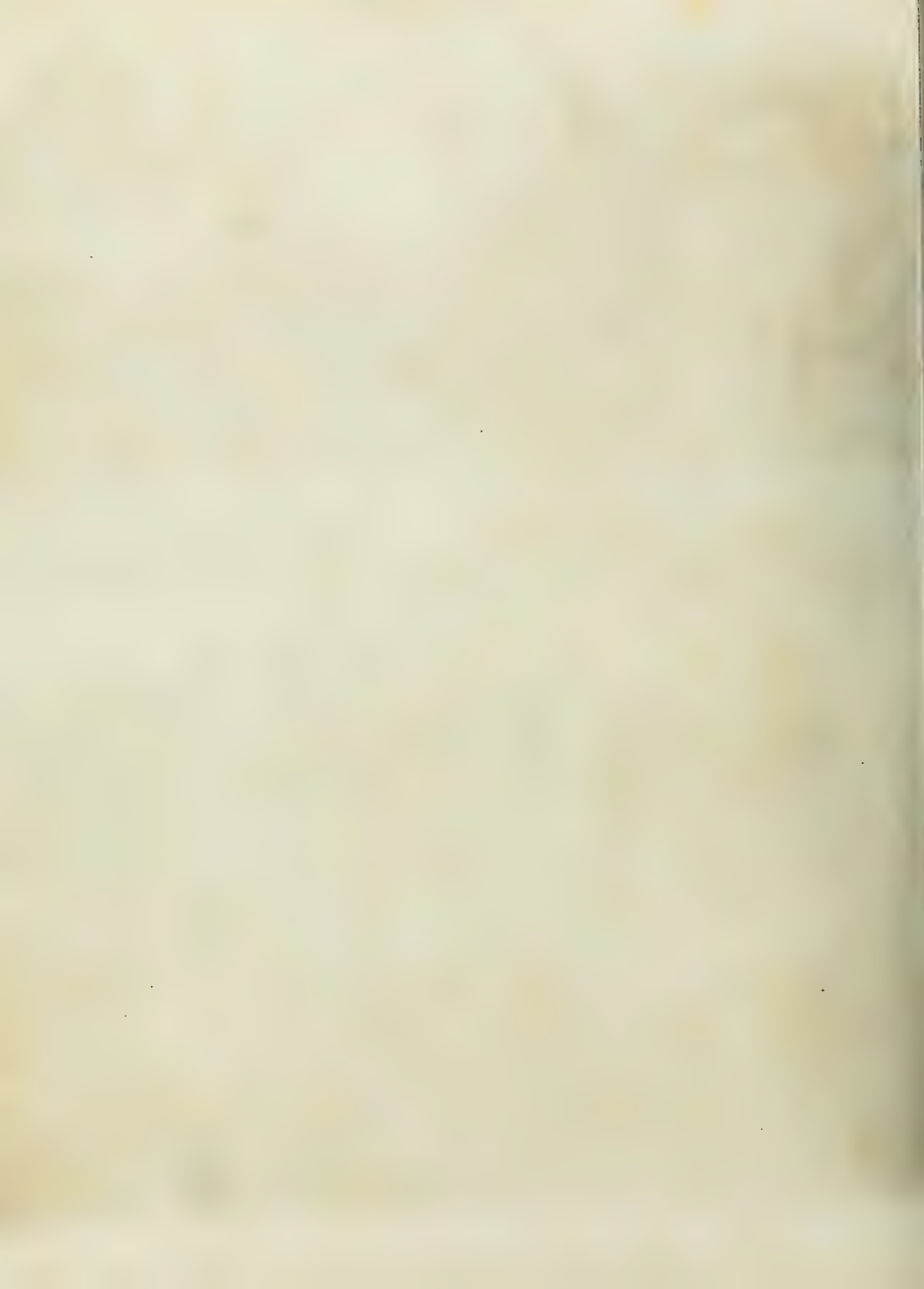
G. CATHARTES (Curassow)  
 3. *C. Alutor*. 5. *C. Ruaxi*.  
 CURASSOW. Male. 4. Female. CUSHAW.





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.

Published by G. & J. Sayer, 13, 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.



Dist. of Land Birds. Order GALLINÆ.



GENUS PHASIANUS Pheasant.

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

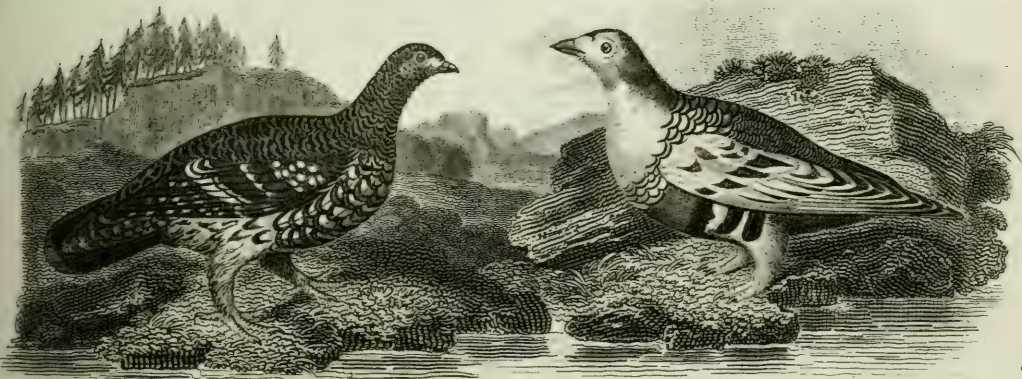
COMMON P. GOLD P. SILVER P. ARGUS P.

Published as the Property of the British Museum, London.





Two of Land Birds ... Order GALLINA.



Syl. Edwards del.

GENUS NUMIDIA - G. TETRAO

(Pintado)

(Grouse)

1. N. Macgregri  
GUINEA HEN 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. parvidens  
HETEROCLITOUS





J. Edwards del.

GENUS TETRIX

(Genus)

1. *T. Pectoris*  
CON' BARTIDGE

2. *T. Terrigenus*  
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. Variatus*  
VARIATED ?





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

G. CAPRIMULGUS

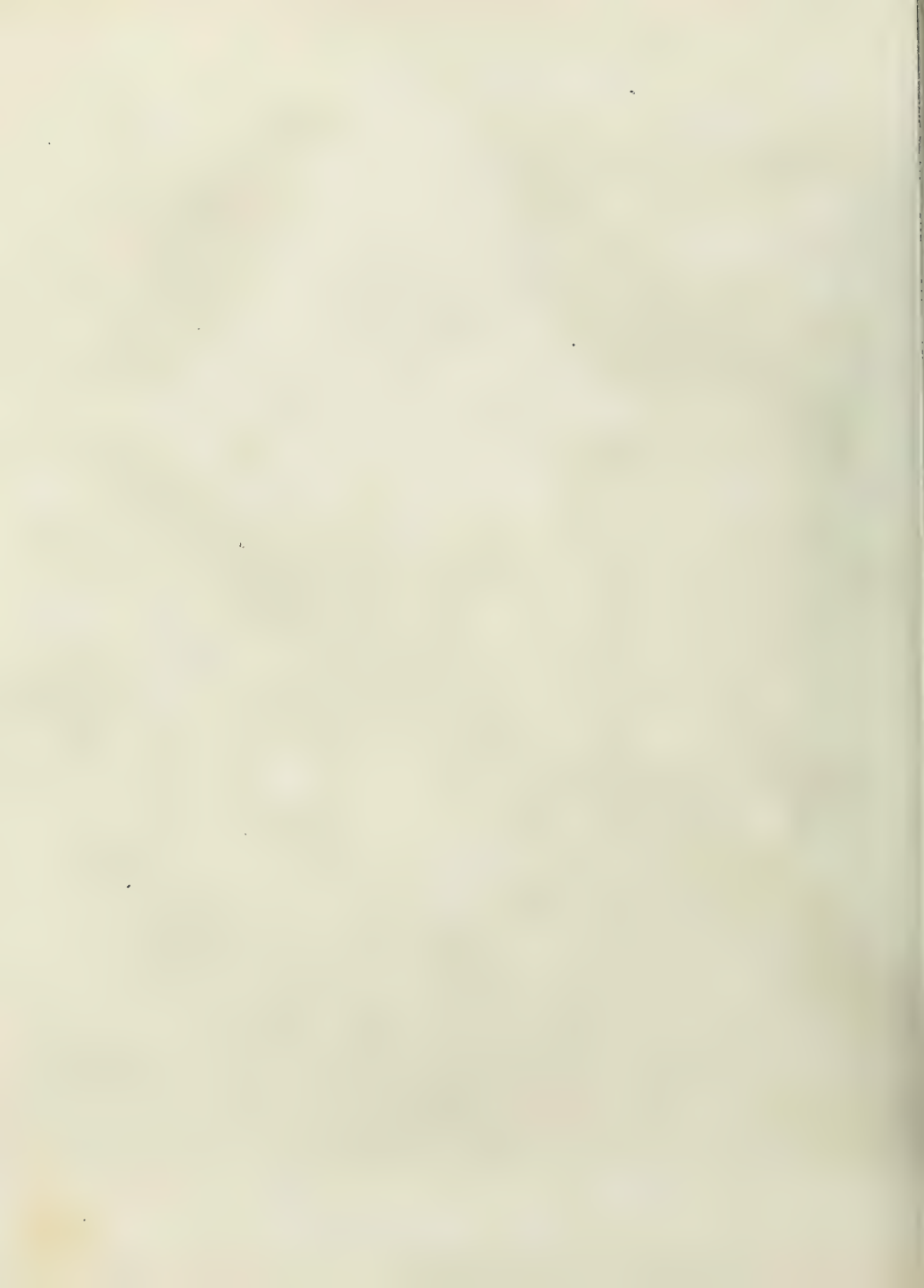
Goutenker

6. *C. Girardi*

7. *C. Longipennis*

8. *C. G.*

9. *C. L.*





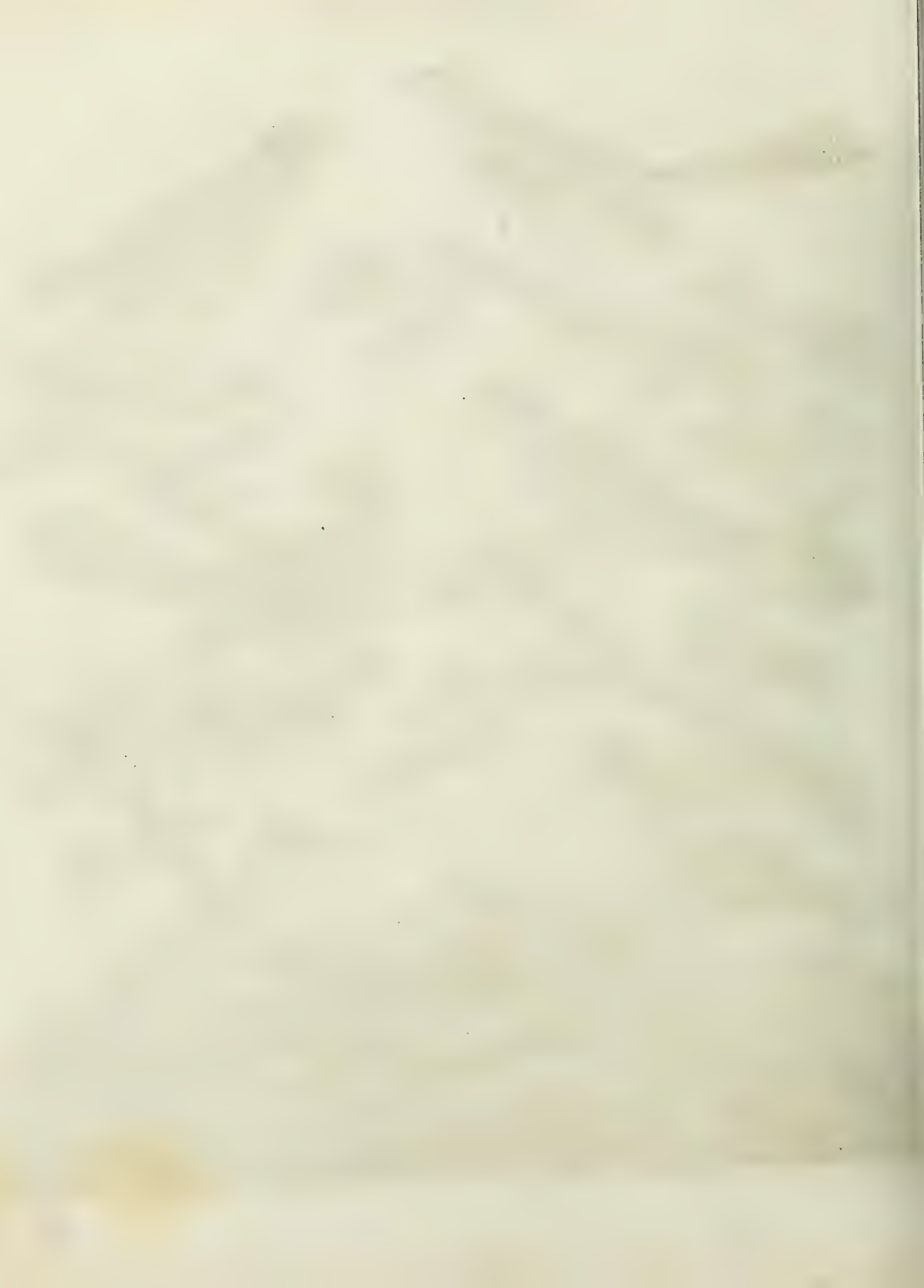


GENUS TERDUS  
Thrush

- |                   |                 |                         |                        |                  |                        |
|-------------------|-----------------|-------------------------|------------------------|------------------|------------------------|
| <i>T. Ophonus</i> | <i>T. l. l.</i> | <i>T. propinquantus</i> | <i>T. roseirostris</i> | <i>T. cyanus</i> | <i>T. longirostris</i> |
| WOODPECKER.       | KIN.            | SOFT-BILL.              | THICK-BILLED.          | BLEU-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. *A. Capensis*  
 CAP. C.

G. COLIUS  
 (Coly)

6. *G. E. leucophaea*  
 WHITE-BACKED C.

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



ORNITHOLOGY.

Div<sup>n</sup> 1. Land Birds. Order PASSERES.

PLATE I.



GENUS LOXIA  
(Grosbeak)

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

Published as the 1st No. of the 1<sup>st</sup> Series, by Longman, Hurd, Rose & Co. 15, Ave. Marie, New York.



Div. 1. Land Birds. Order 6 PASSERES.



GENUS EMBERIZI

Bunting

- |                       |                    |                    |                           |                        |                        |
|-----------------------|--------------------|--------------------|---------------------------|------------------------|------------------------|
| 1. E. <i>Paradisæ</i> | 2. E. <i>Ciris</i> | 3. E. <i>Rexia</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 Exp. direct. Jan. 1. 1841. by Longman Hurst, Ross, Orme & Brown, Paternoster Row.





ORNITHOLOGY.

Divided into Land Birds. Order 3<sup>d</sup> PASSERES.

PLATE X.

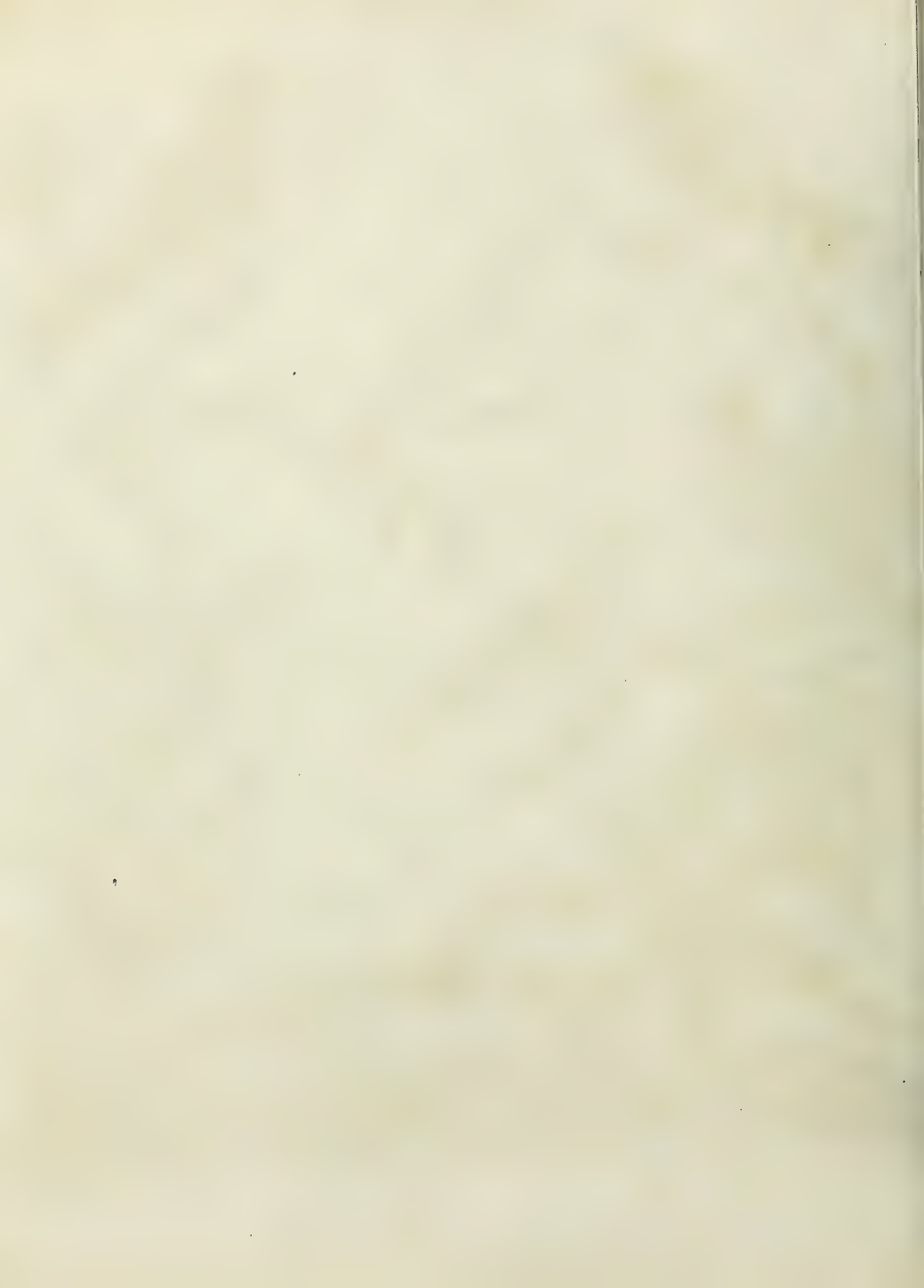


**C. TANAGRA.**  
(Tanager)

**GENUS FRINGILLA.**  
(Finch)

**G. PHYTOTOMI**

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



Order PASSERES.



GENUS MUSCIVORA

(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. 1811. by Longman, Hurst, Roe & Brown Paternoster Row.





G. MOTACILLA

Warbler

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

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

3. *M. fusca*  
BLUETHROATED W.

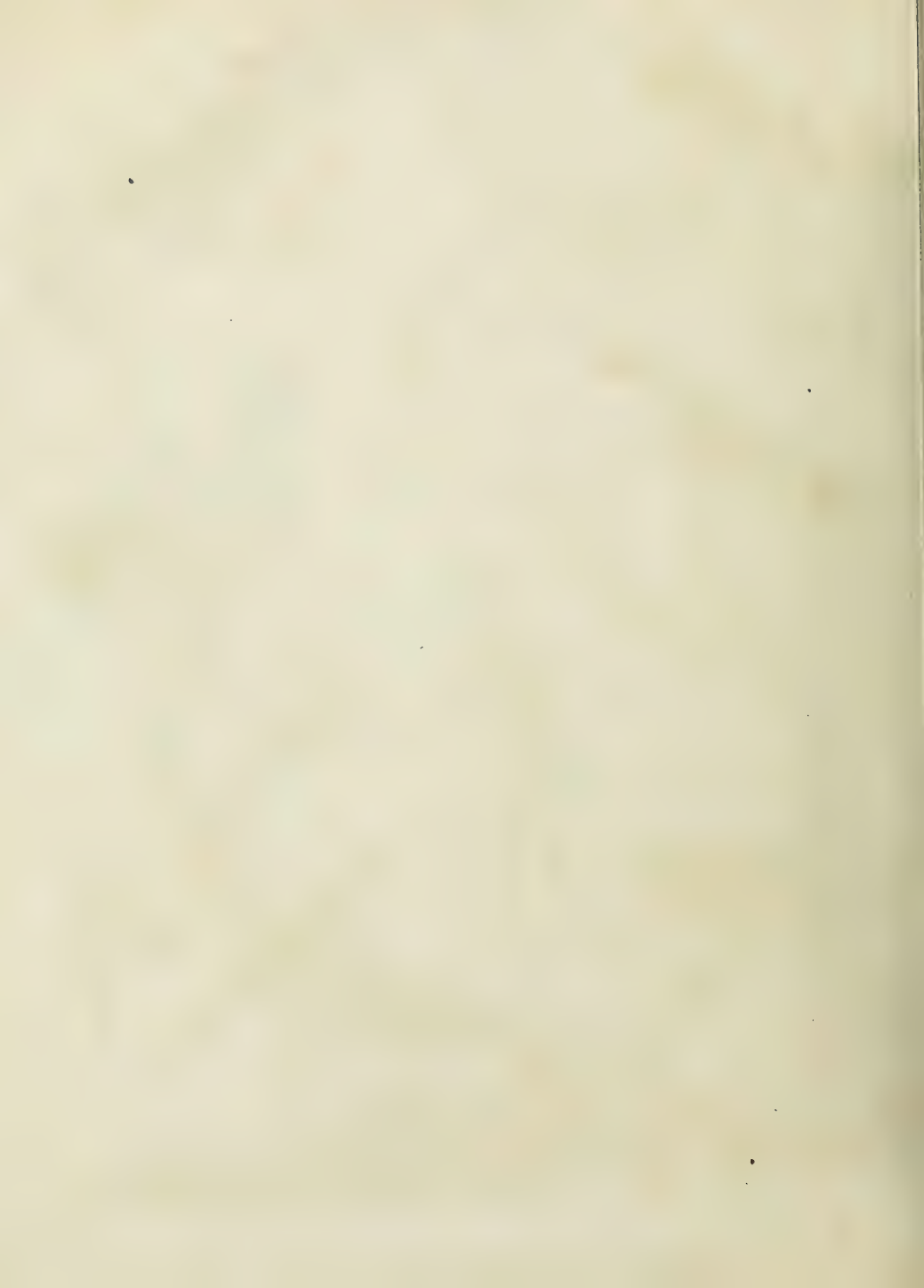
4. *P. rupicola*  
ROCK M.

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.

4. H. orientalis  
ESULENT S.

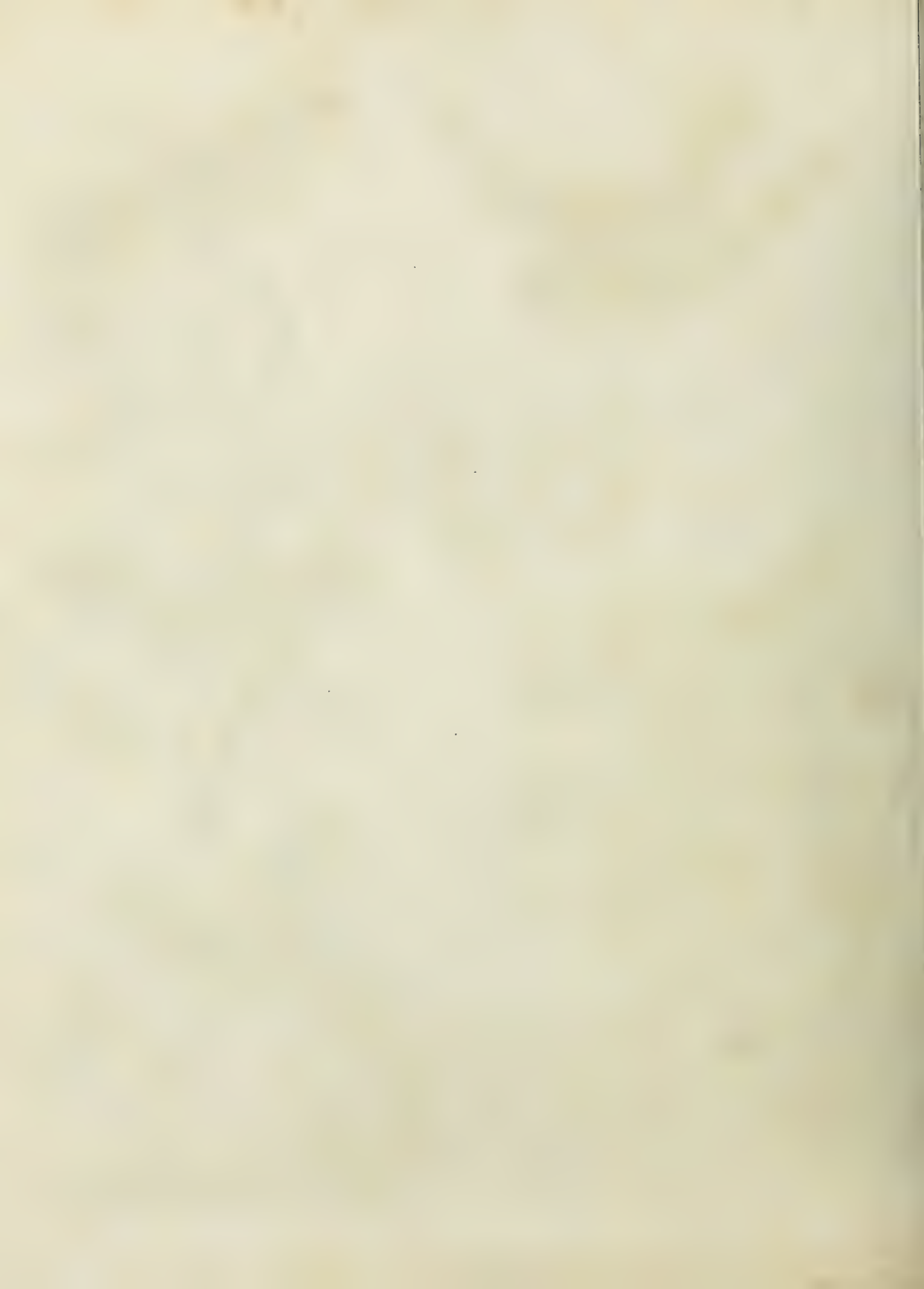
GENUS HIRUNDO

Swallow

5 NEST

6. H. Tahitensis  
O. WHITE S.

7. H. P. accipitrina  
ACCIPITRIN S.





*Strix flammar*



*Strix passerina*



*Strix stridula*



*Strix brachyotos*



*Tetrax lagopus*



*Tetrax urogallus*

*Falco Chrysaetos*



*Ardea minuta*



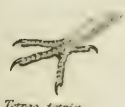
*Motacilla vulgaris*



*Alauda obscura*



*Ardea cinerea*



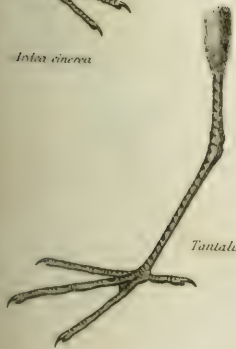
*Tetrao tetrix*



*Glareola austriaca*



*Charadrius limantopus*



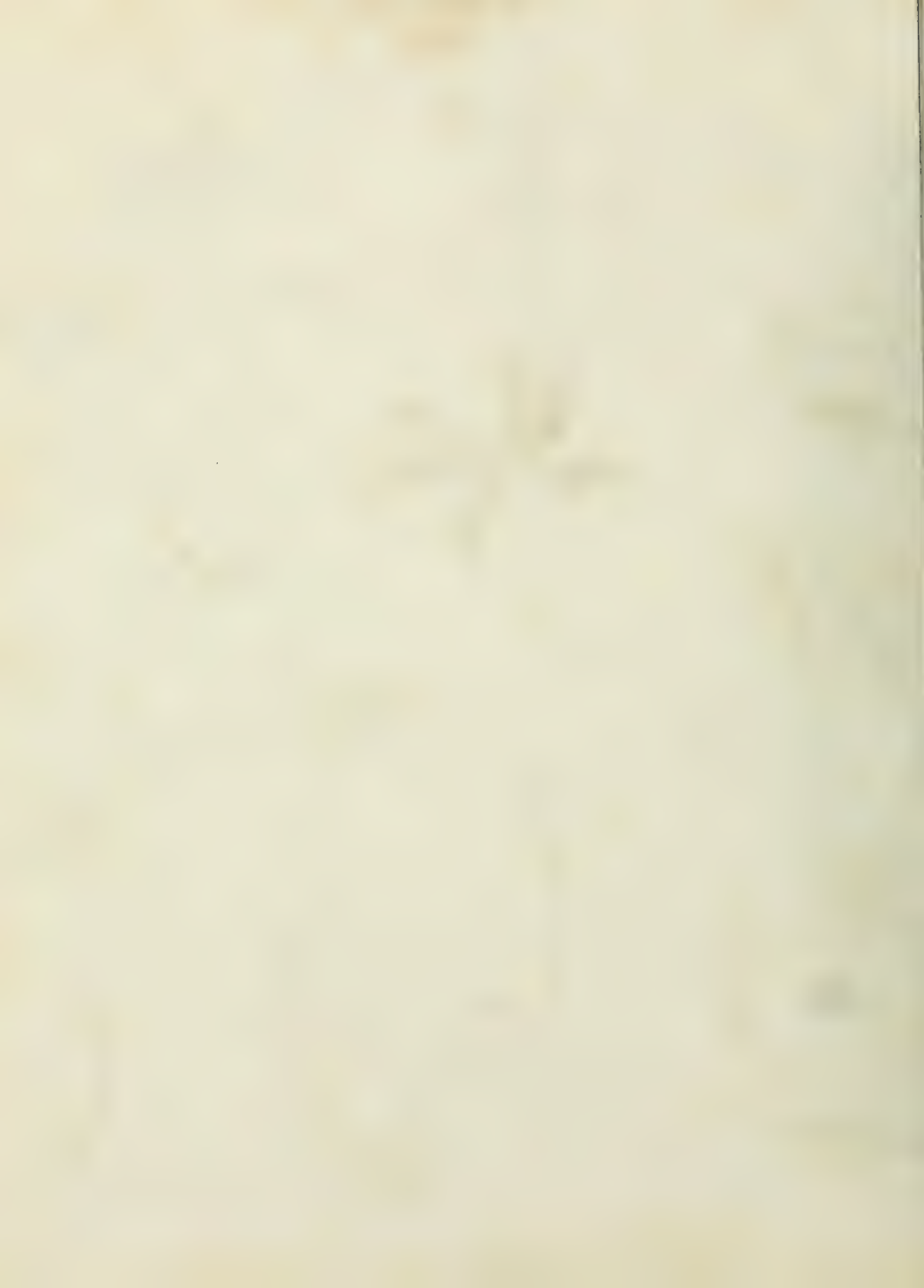
*Tantalus igneus*



*Platalea ajaja*



*Hamatopus ostralegus*



Elementary.



*Parus*



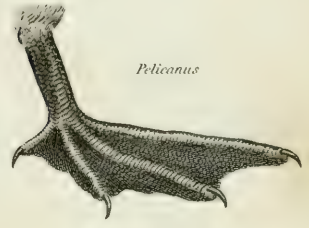
*Phasianus*



*Pavo*



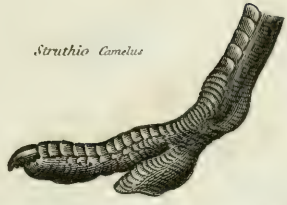
*Corvus*



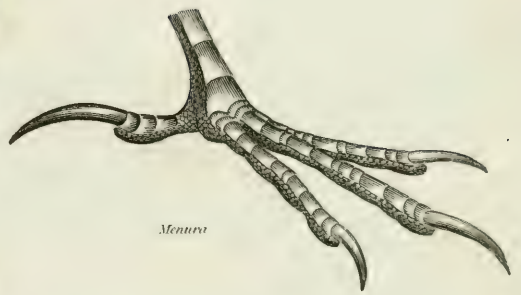
*Pelicanus*



*Struthio casuarius*



*Struthio Camelus*



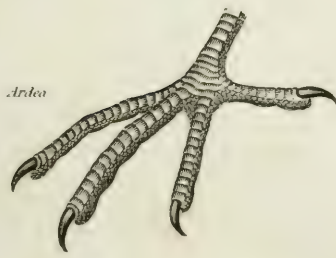
*Menurus*



*Otis*



*Cereopsis*

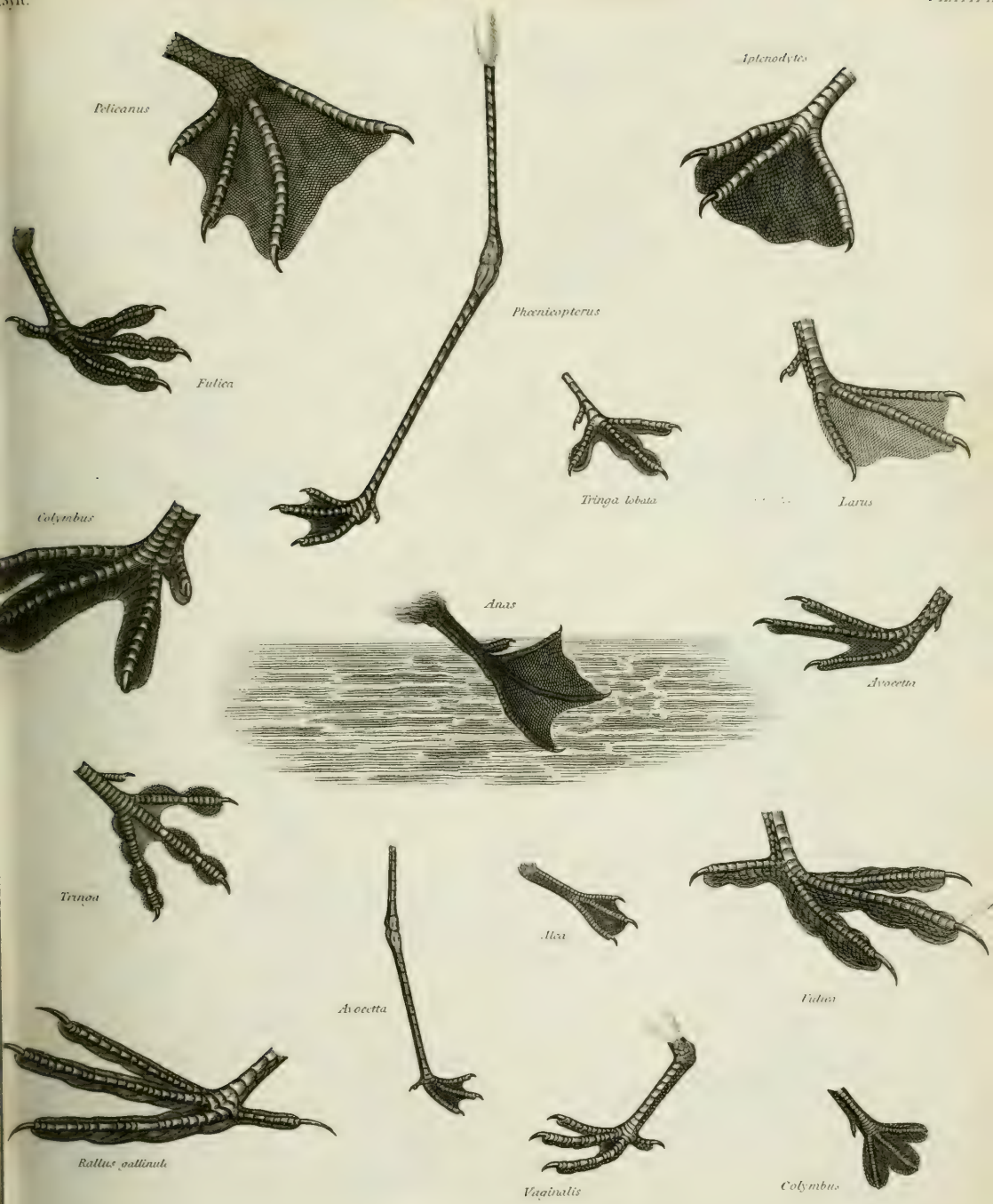


*Ardea*



*Paradisea*







Elementary.



*Muscoplagus*



*Picus*



*Picus marinus*



*Alauda*



*Alauda obscura*



*Colinus*



*Alcedo*



*Edeo*



*Curra*



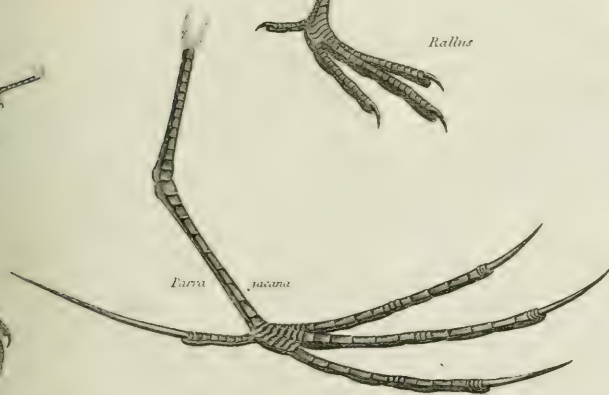
*Sterna*



*Rallus*



*Colymbus polylops*



*Curra jaccana*



*Turdus*



*Sitta*



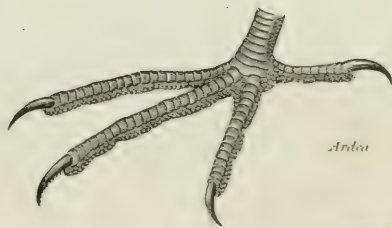
*Motacilla*



*Glaucoida*



*Pipra*



*Ardea*



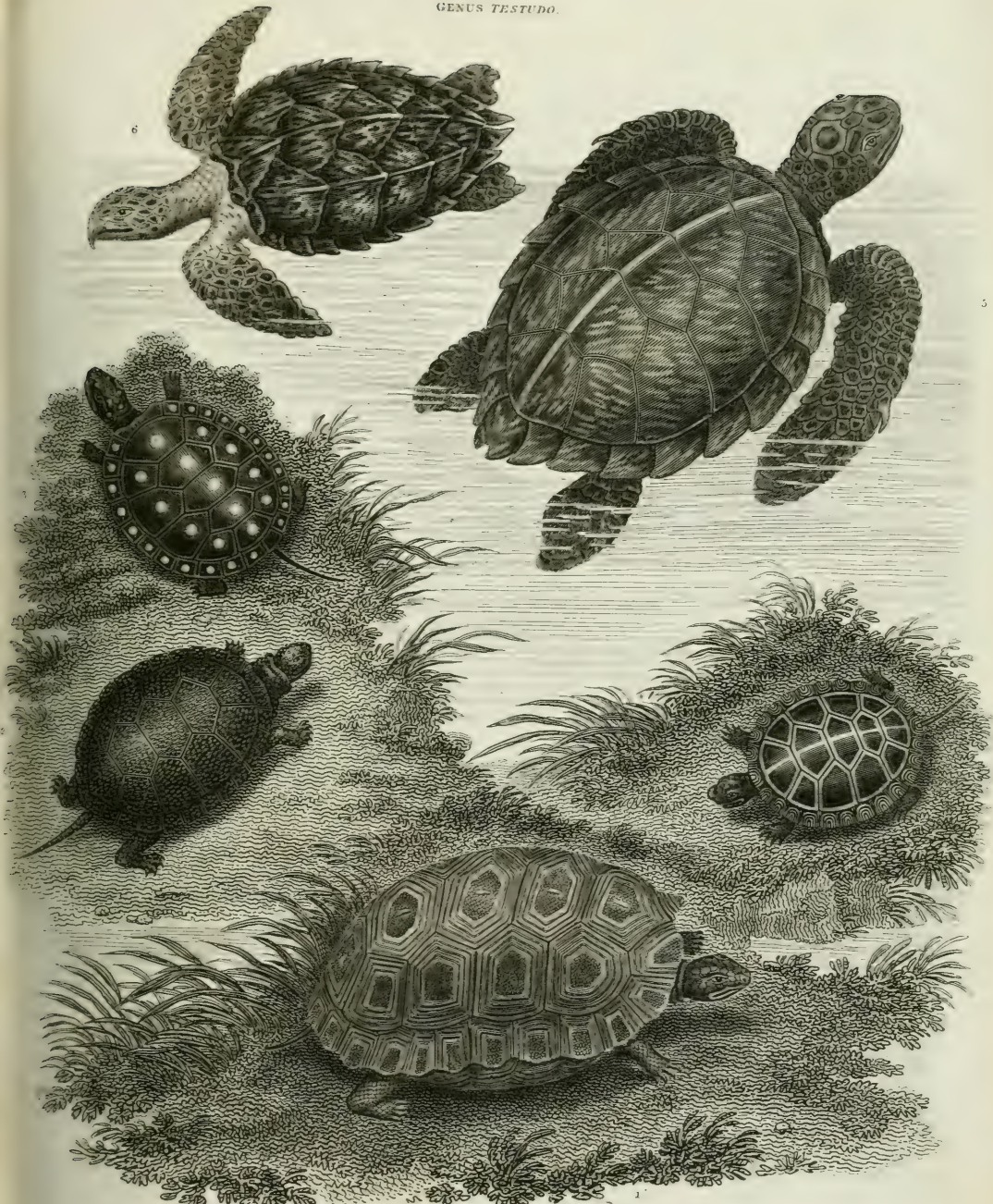


AMPHIBIA.

GENUS TESTUDO.

6

5



1 T. denticulata

2 T. Europea

3 T. guttata

4 T. picta

5 T. Mydas

6 T. imbricata

DENTICULATED TORTOISE

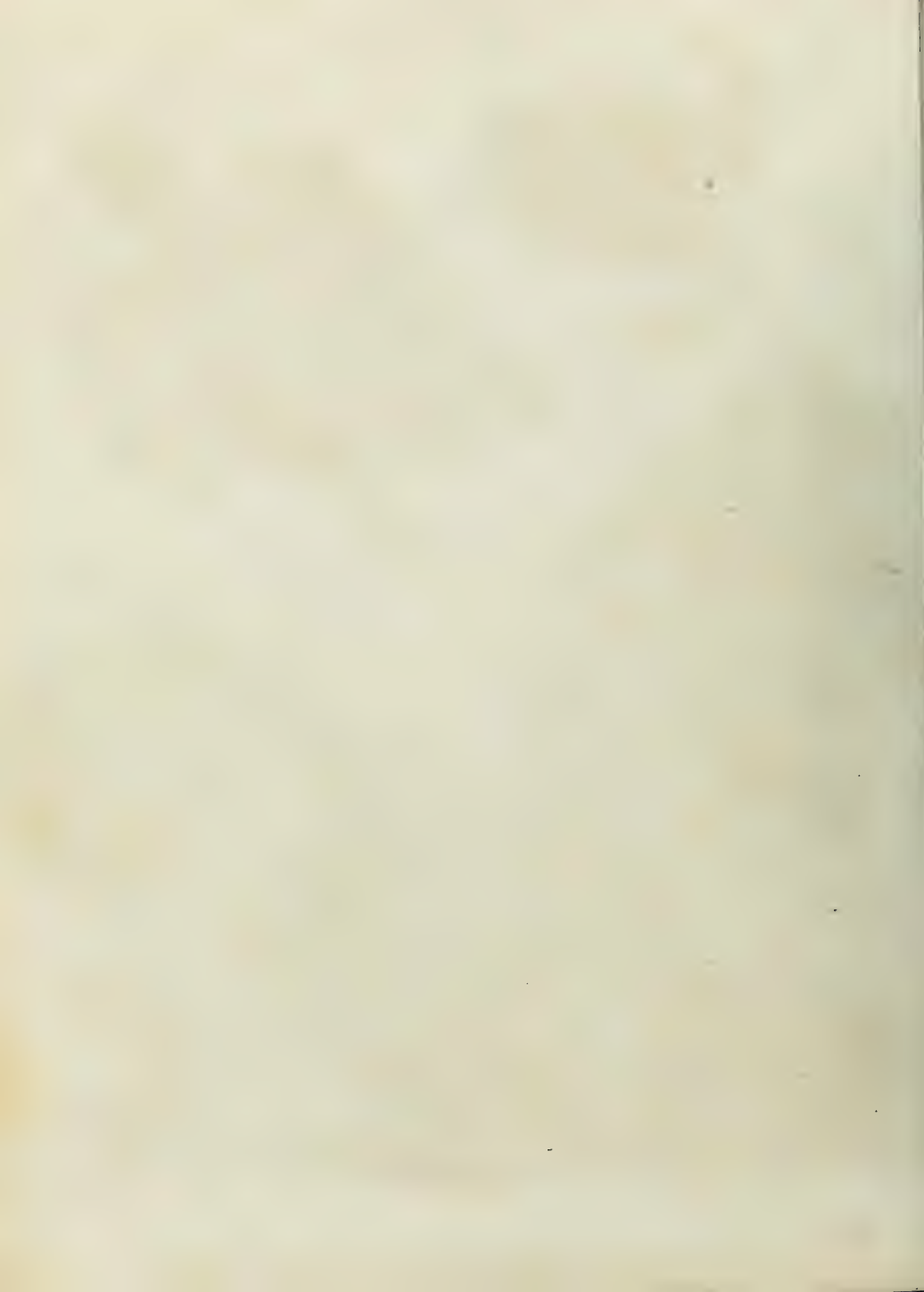
GREEN SPECKLED T.

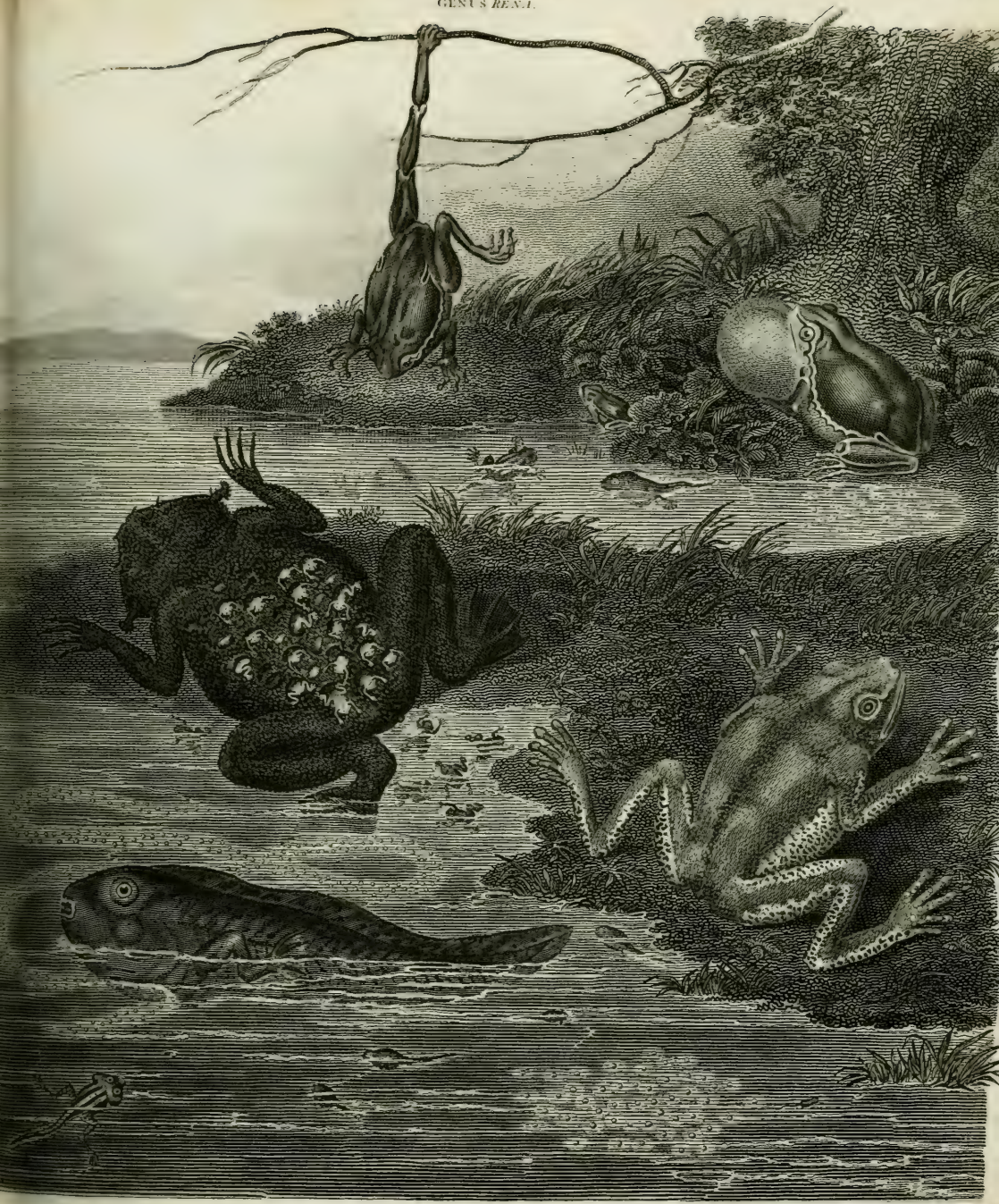
SPOTTED T.

PAINTED T.

ESULENT 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<sup>o</sup> 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

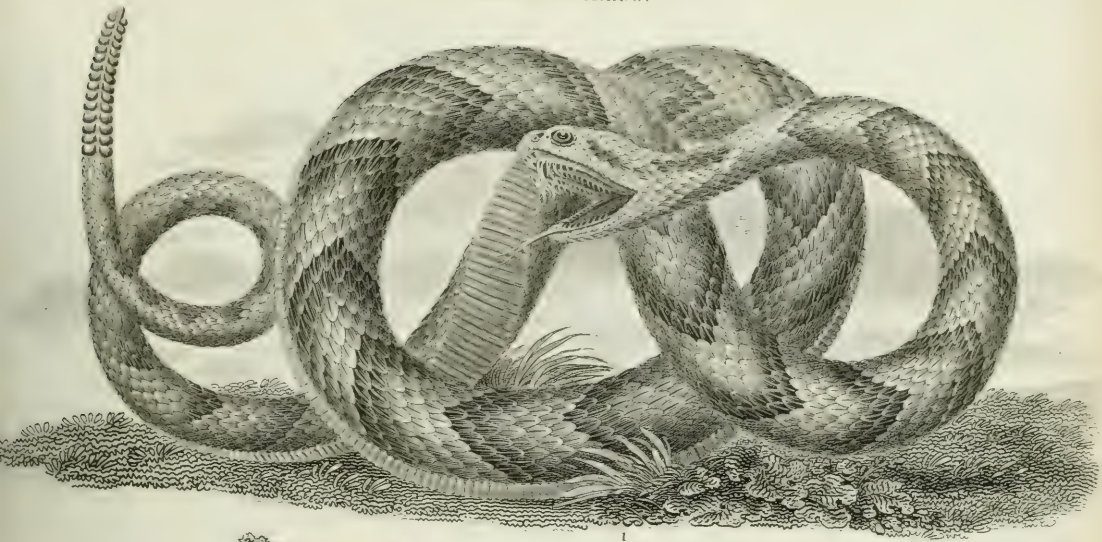


1 S. *Lucasiana*      2 S. *Anguina*  
 1874. *Illustration*      *ANGUIS* U.S.

Facsimile of an illustration by May 1874 by Longman Harter Russell & Brown, Eatoneter Russ.



ANPHIBIA.  
GENUS CROTILUS.

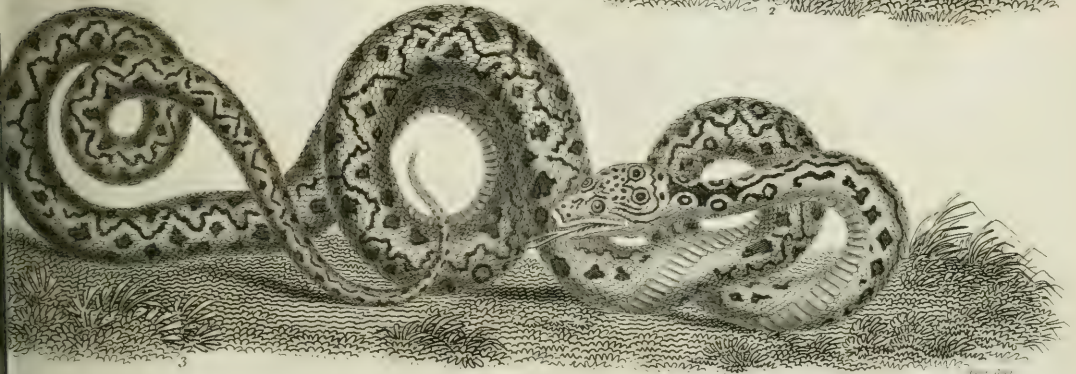
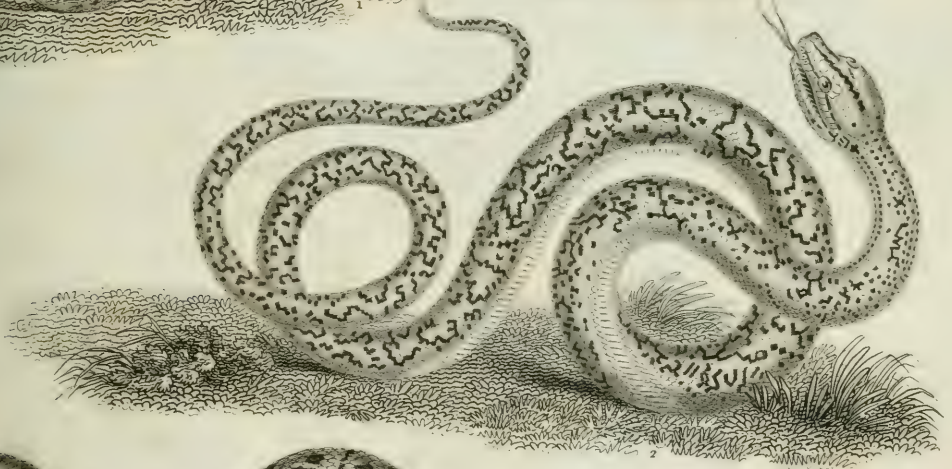
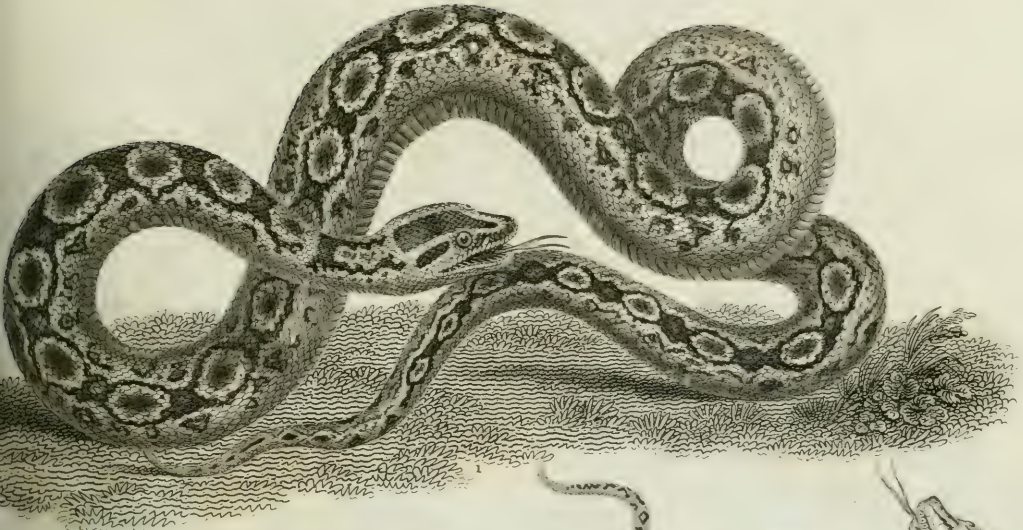


(Rattle Snake)

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

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





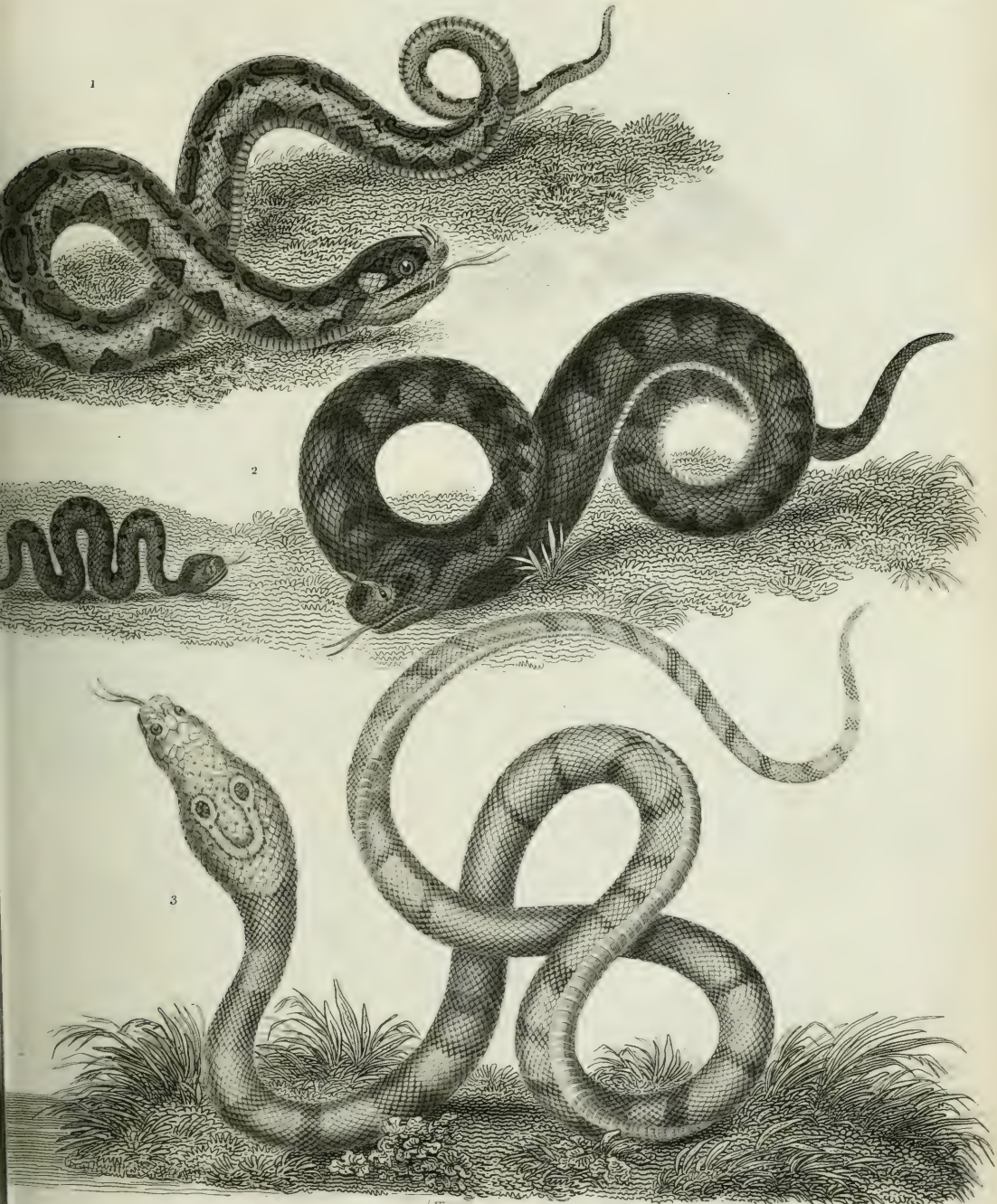
[Serpent

1. B. Constrictor  
GREAT B.

2. B. Phrygias  
EMBROIDERED B.

3. B. Hortulana  
GARDEN B.

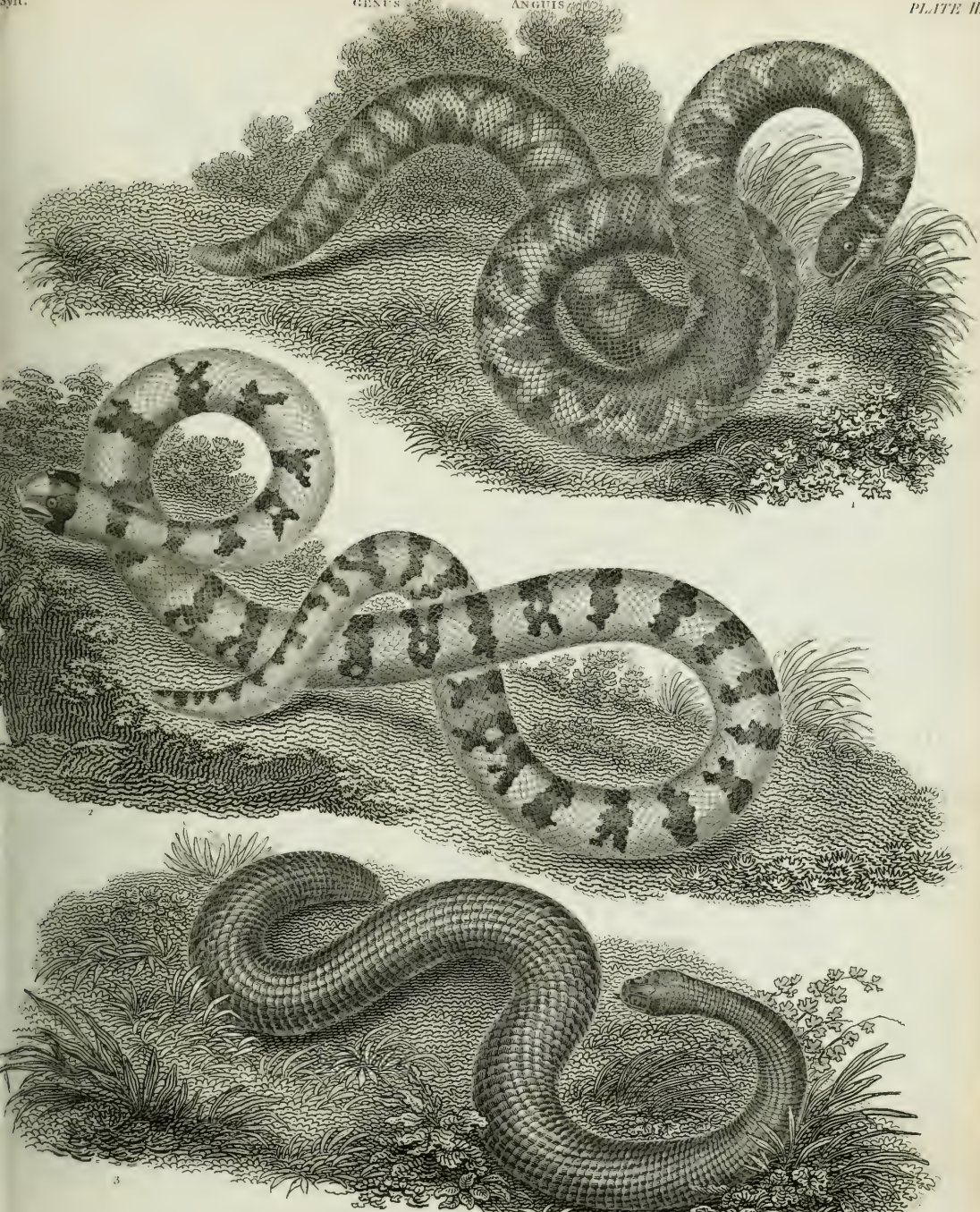




(Viper)  
 1. *C. nasicornis*    2. *C. Cerastes*    3. *C. Naja*  
 HORN NOSE V.    CERASTES V.    NAGOO or SPECTACLE V.  
 Published at the Six streets, April 1<sup>st</sup> 1849, by Longman, Juxon, Kees & Orme, Paternoster Row.







Slow Worm

1. A. Coraline  
CORAL S.

2. A. ater  
BLACK BANDED S.

3. A. Jamaicensis  
JAMAICA S.



GENUS AMPHISBENA L. GEN. CECILIA



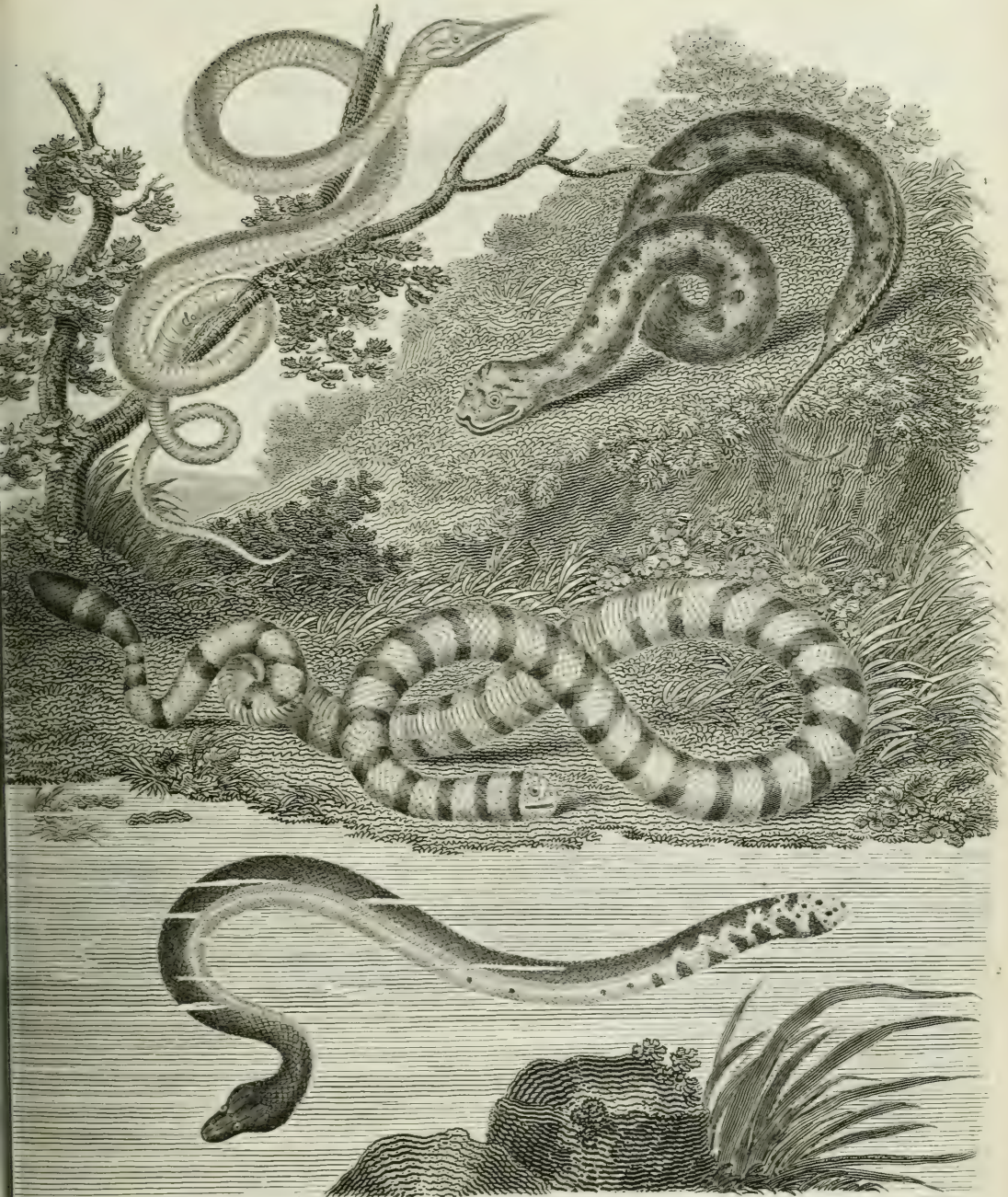
1. *Alba.* 2. *fuliginosa.* 3. *tentacula*  
 WHITE'S. FULIGINOSA'S. EEL SHAPED C

Published as the Act directs March 1<sup>st</sup> 1834 by Longman Hurst, Rose Crime & Esdaile, Stationers Court.



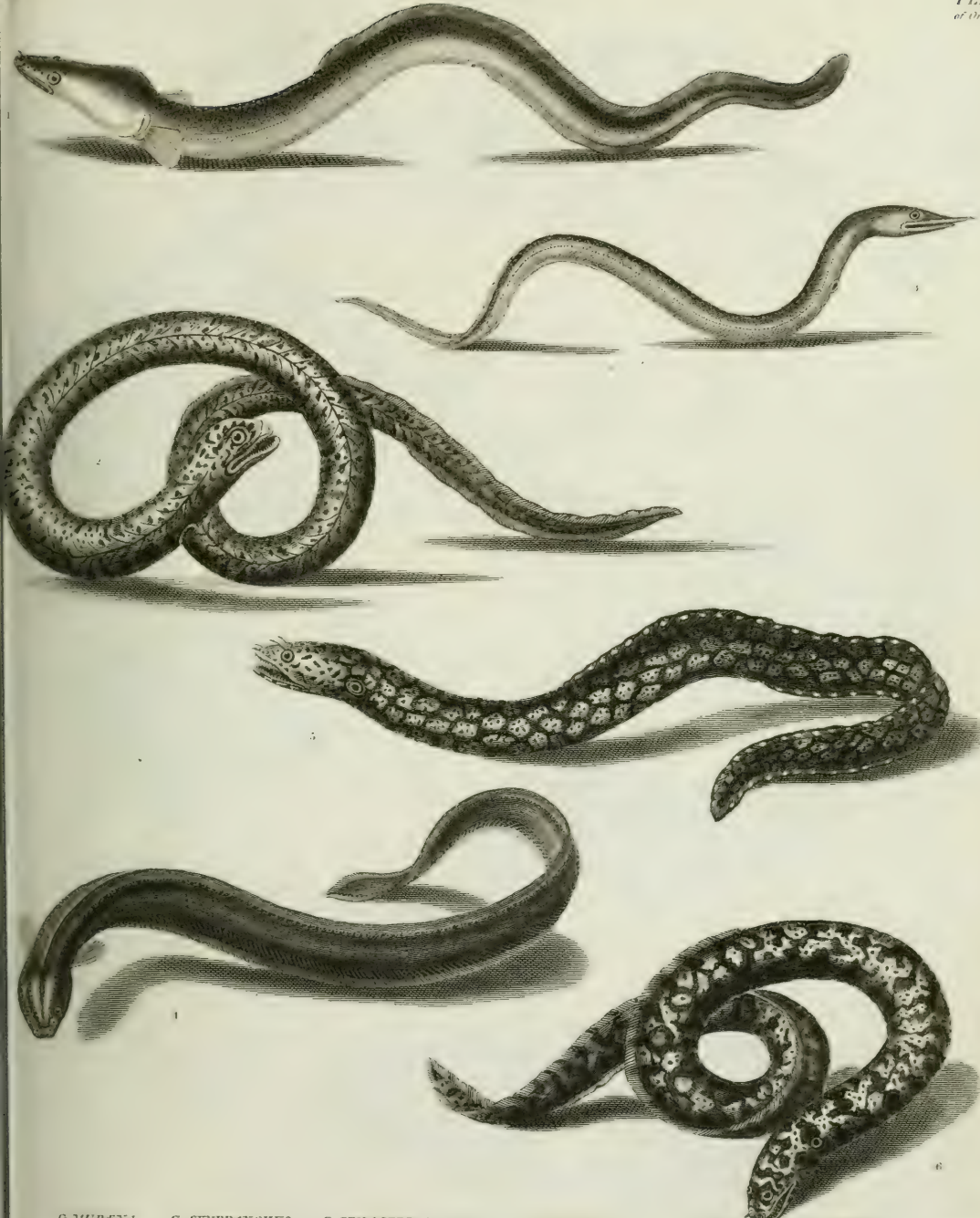
AMPHIBIA.

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





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

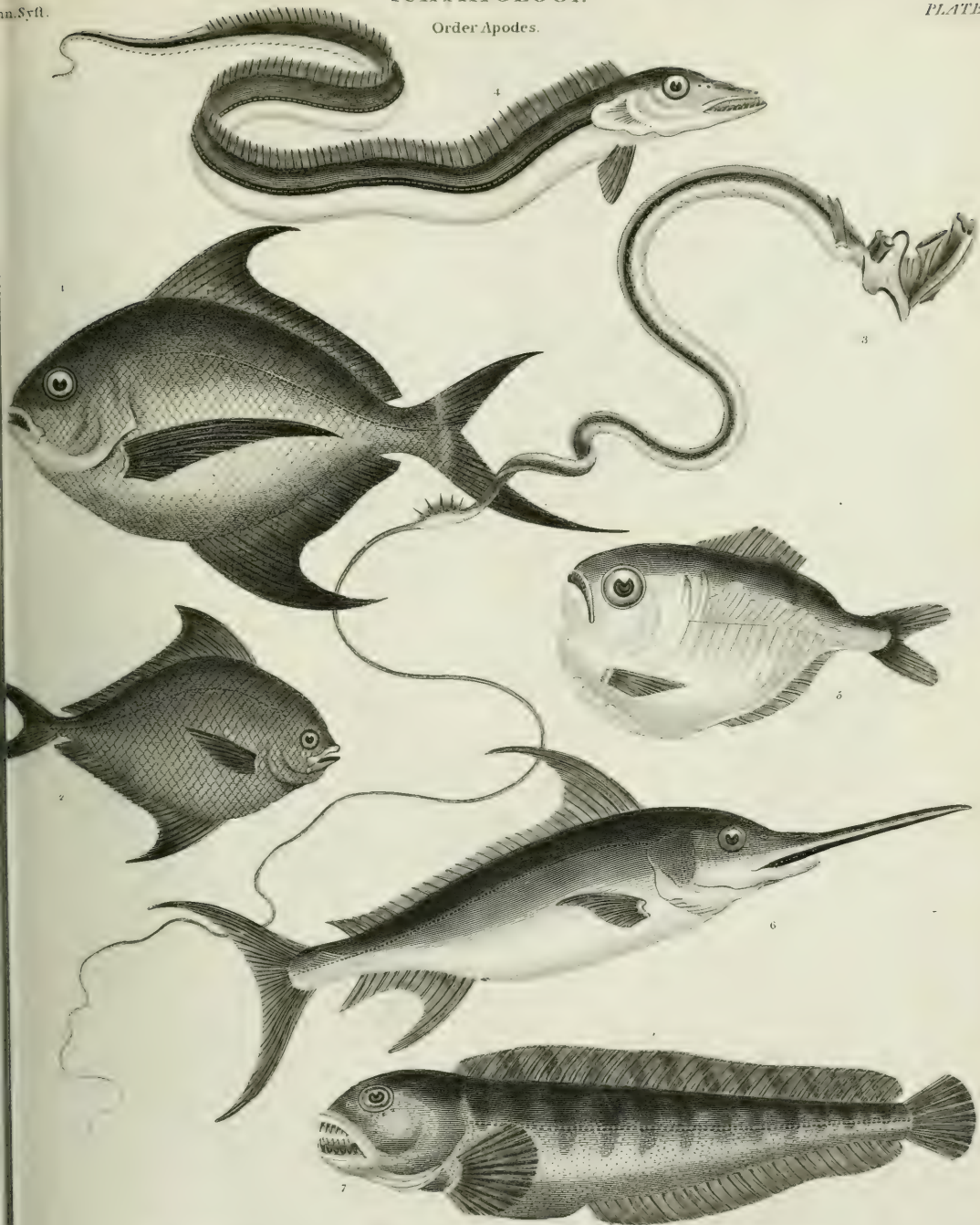
GENUS GYMNOTHORAX  
5. Gymn. Murena  
EEL GYMNOTHORAX  
6. Gymn. Catenatus  
CHAIN GYMNOTHORAX

*Milton sculp*



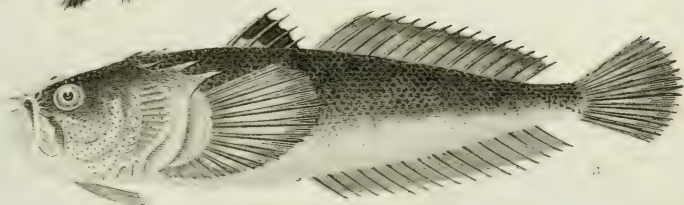
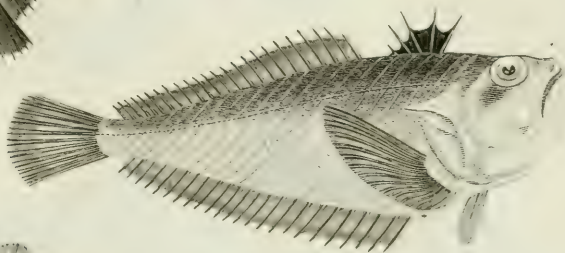
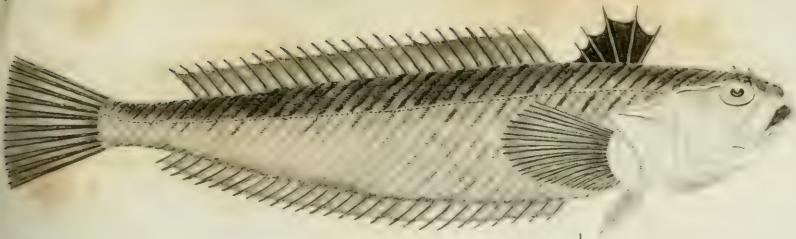


Order Apodes.



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>S. gladius</i> (Sword Fish)	7. <i>A. lupus</i> Wolf Fish
2. <i>— niger</i>					





GEN. *TRICHINUS*  
(Weever)

1. *T. major* 2. *T. draco*  
3. *T. w.* 4. *T. lill. w.*

GEN. *CRINOSCOPIUS*  
(Star gazer)

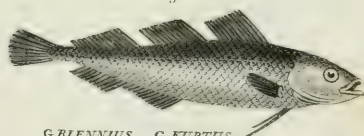
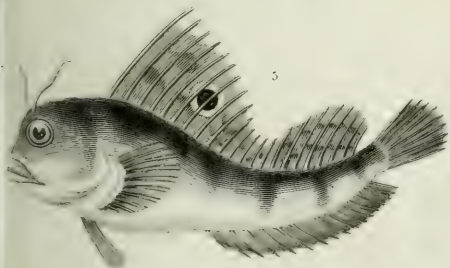
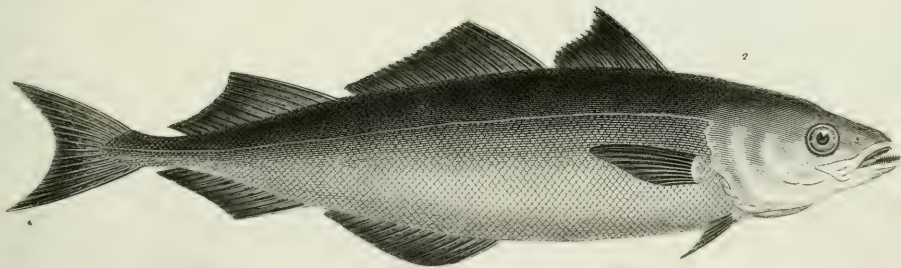
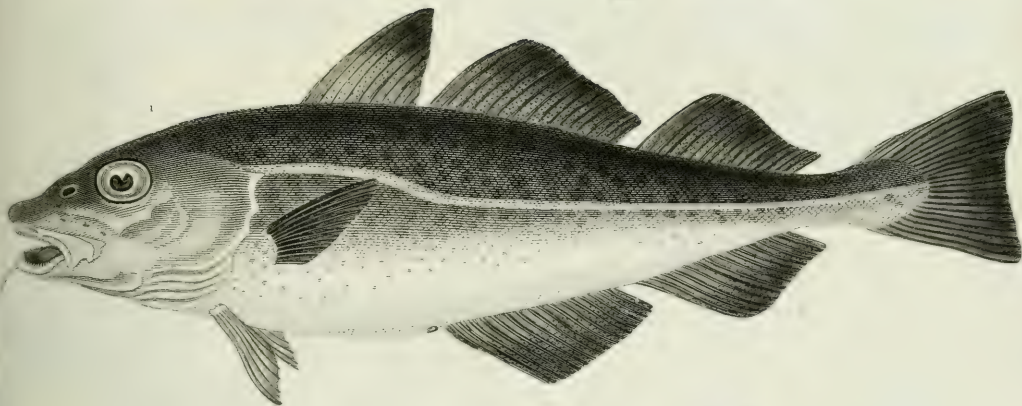
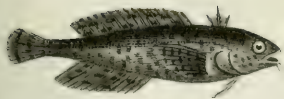
5. *C. asaber*  
6. *C. rotundus*

GEN. *CULLIONYMUS*  
(Dragonet)

7. *C. dracunculoides* 8. *C. lina*  
9. *C. sordidus* 10. *C. sordidus*



ORDER JUGULARIS



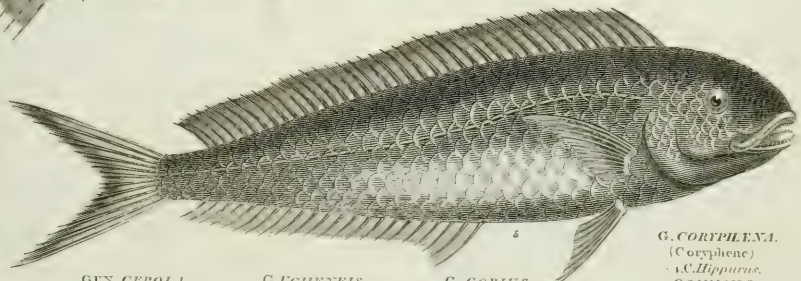
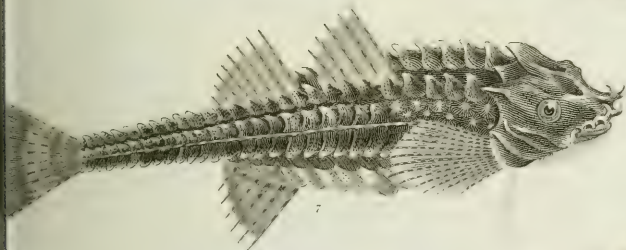
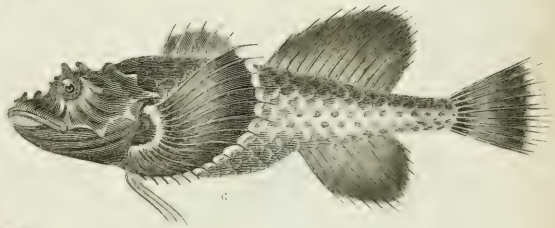
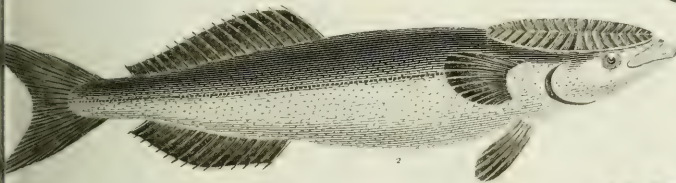
GENUS GADUS

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*.

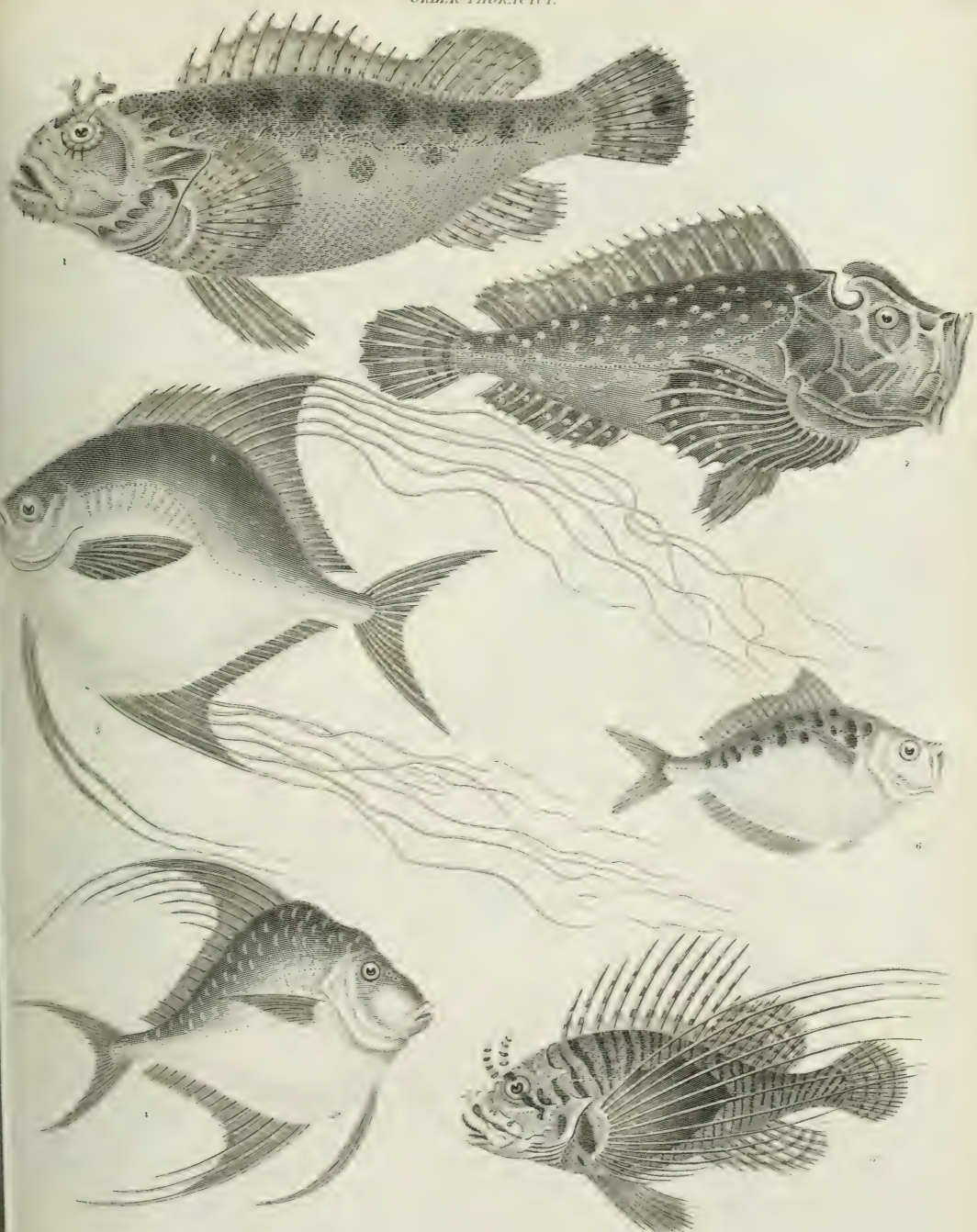
**G. ECHENEIS.**  
 (Sucking Fish)  
 2 *E. Remora.*  
**MEDITERRANEAN SE.**

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

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





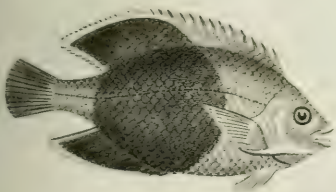
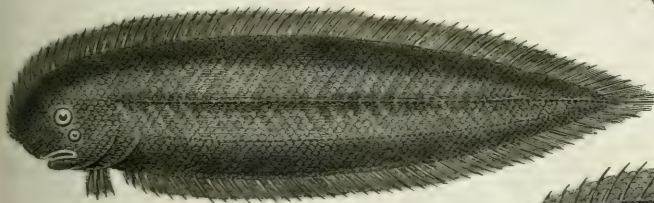
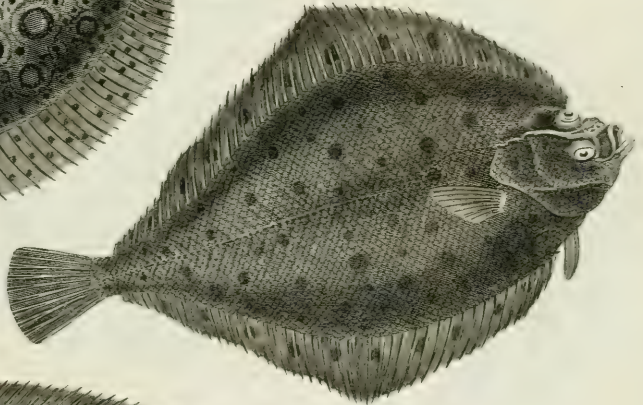
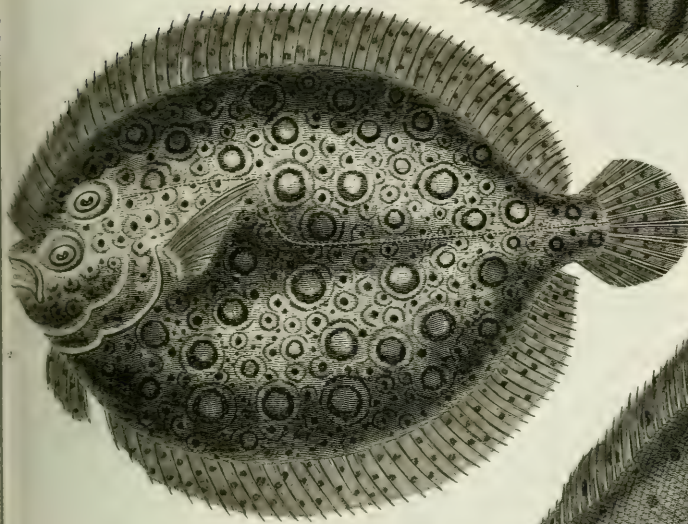
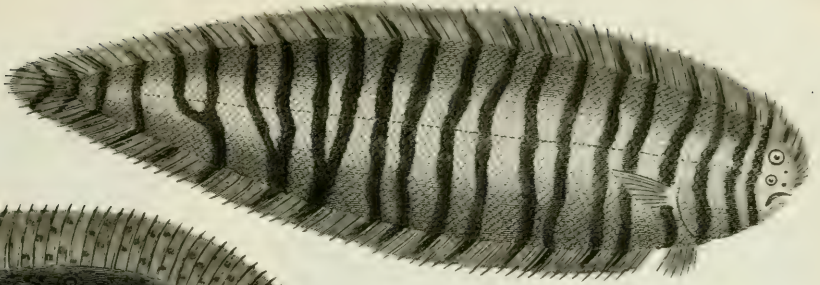


G. SCORPENA

GENUS ZEUS

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





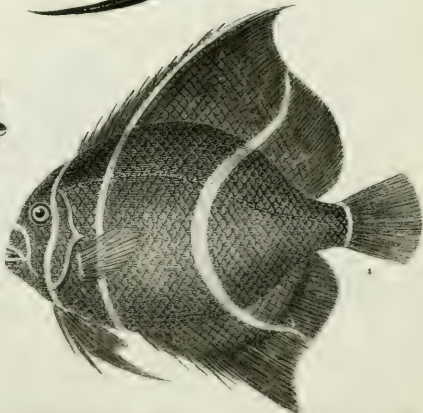
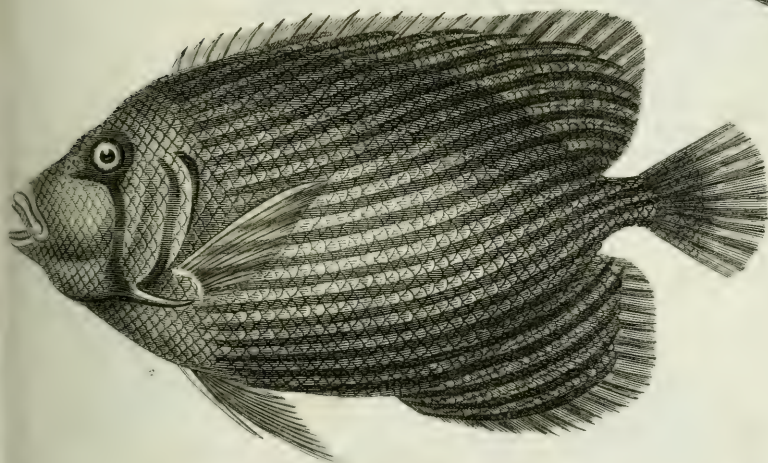
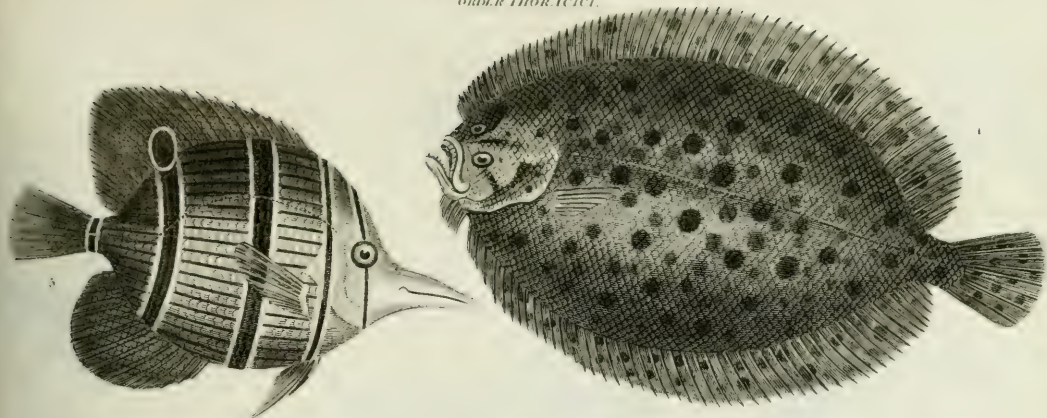
GENUS *PLEURONECTES*  
Flounder.

*G. CILETODON*

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

Published as the Act directs April 1 1842 by Loggman Hurst Ross, Orme & Brown Lutetiae: Boston.





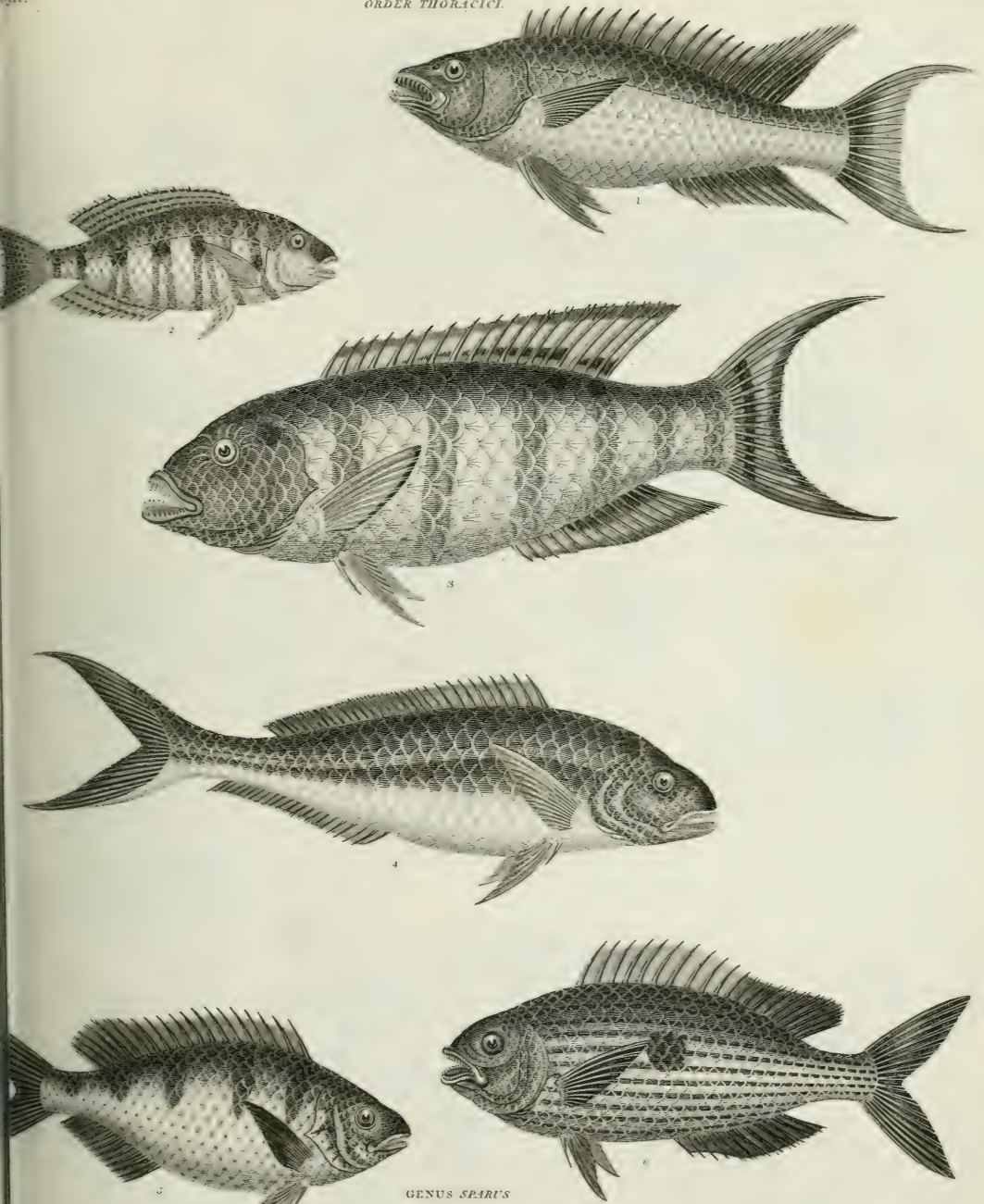
G. PLEURONCTES  
Flounder

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





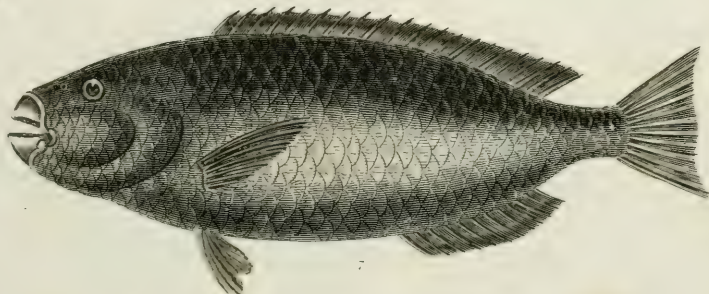
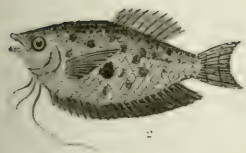
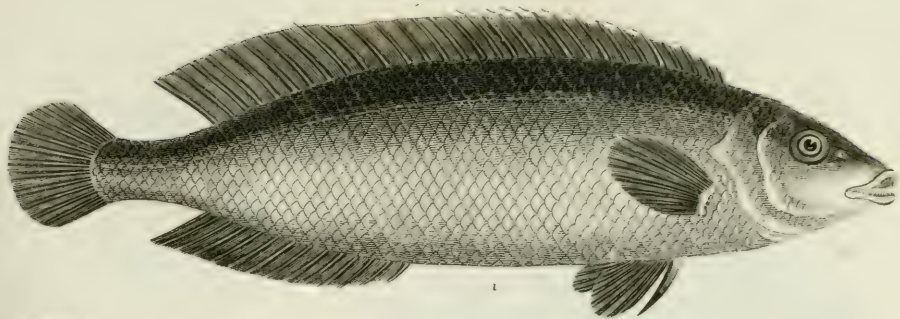
GENUS SPARUS  
(Gilt head)

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

Published as the Art directs April 1<sup>st</sup> 1859, by Longman, Hurst, Kees & Orme, Paternoster Row.







GENUS LABRUS

G. SCARUS

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



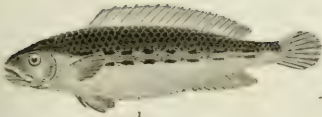


G. SCARUS

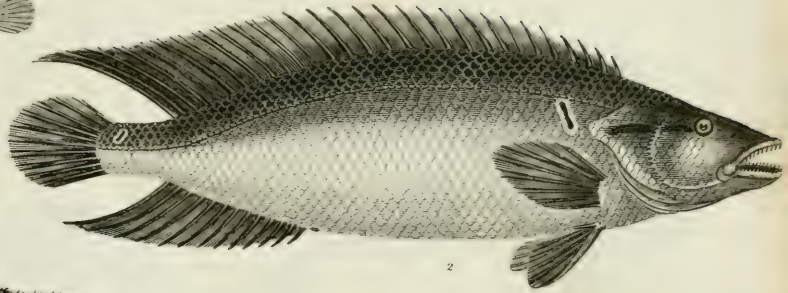
GENUS SCLENA

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





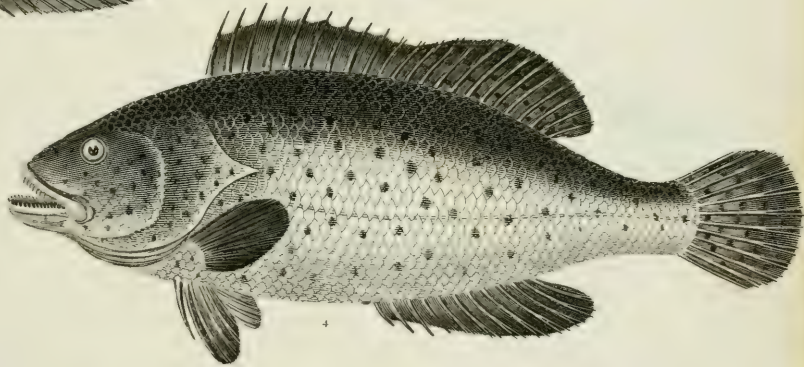
1



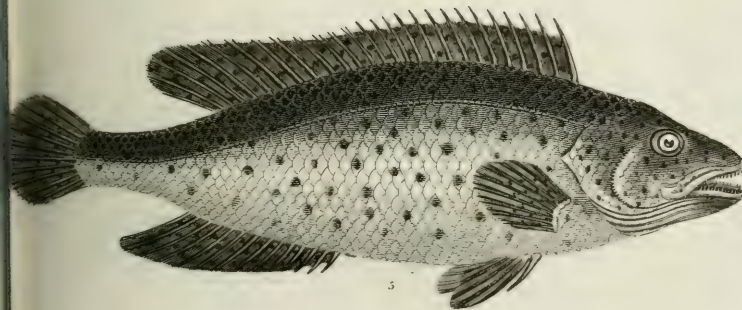
2



3



4



5



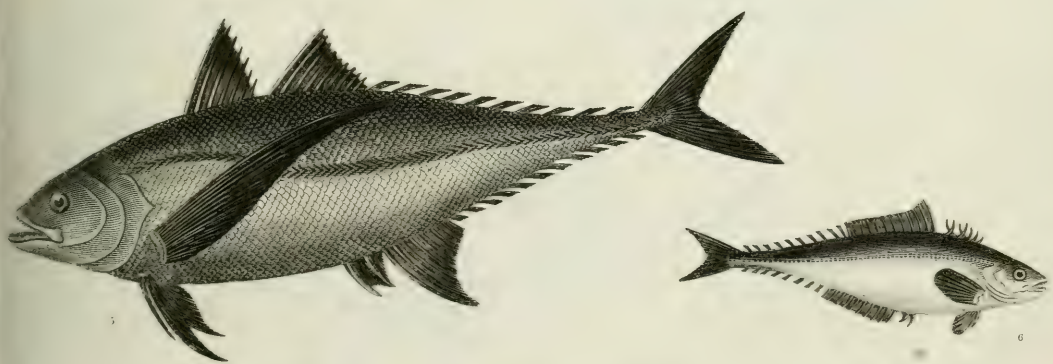
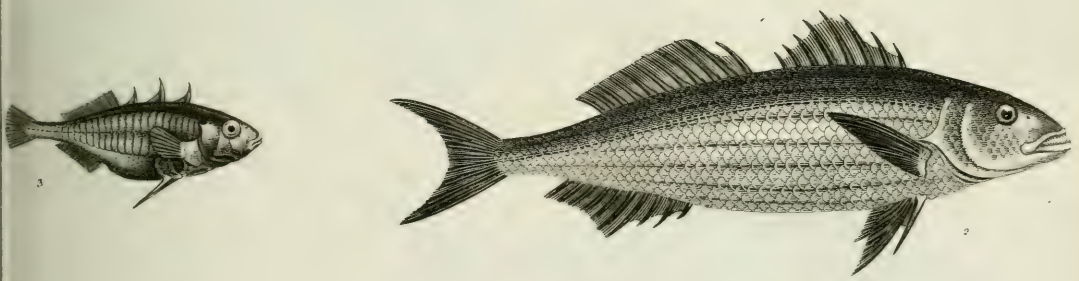
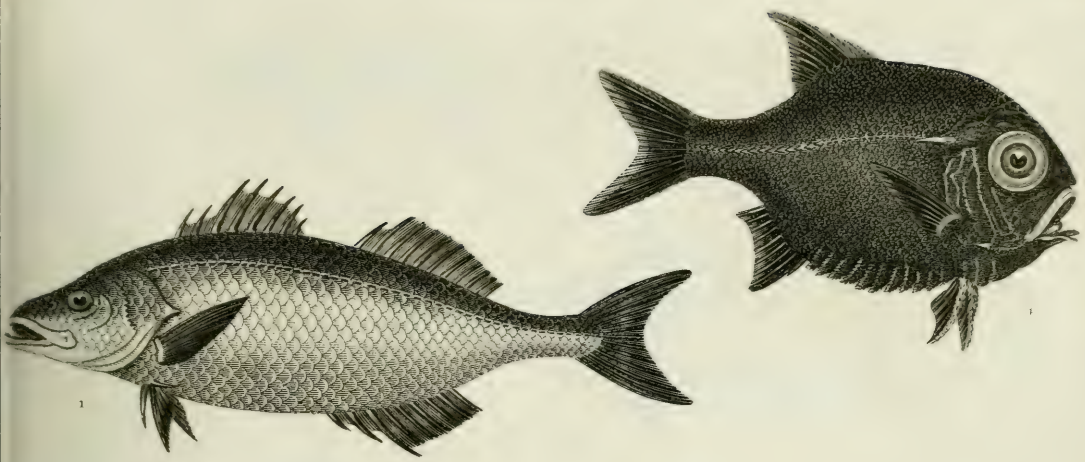
6

GENUS PERCA  
Perch)

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

Published as the Act directs, June 1<sup>st</sup> 1809, by Longman, Hurst, Rees & Orme, Printers to the King.

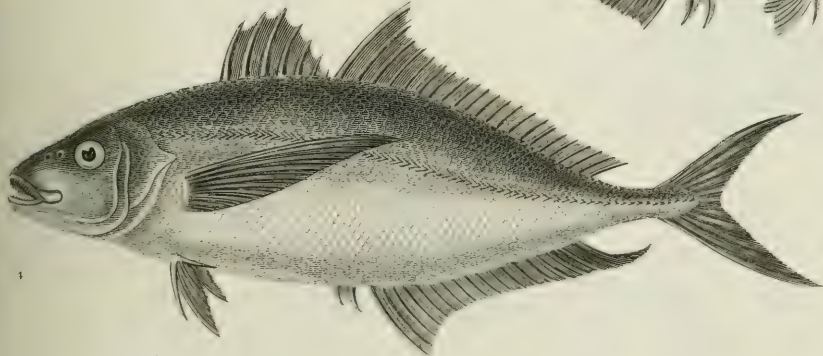
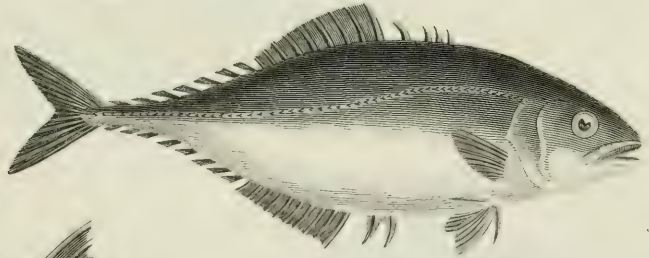




GENUS *SCIÆNA*      *G. GASTEROSTEUS*      *G. TRACHYCHTHYS*      *G. SCOMBER*  
 (Stolleback)      (Mackereel)  
 1. *Sc. Undecimatis* — 2. *Sc. Linata* — 3. *G. Aculeatus* — 4. *T. Australis* — 5. *S. Rotleri* — 6. *S. Aculeatus*





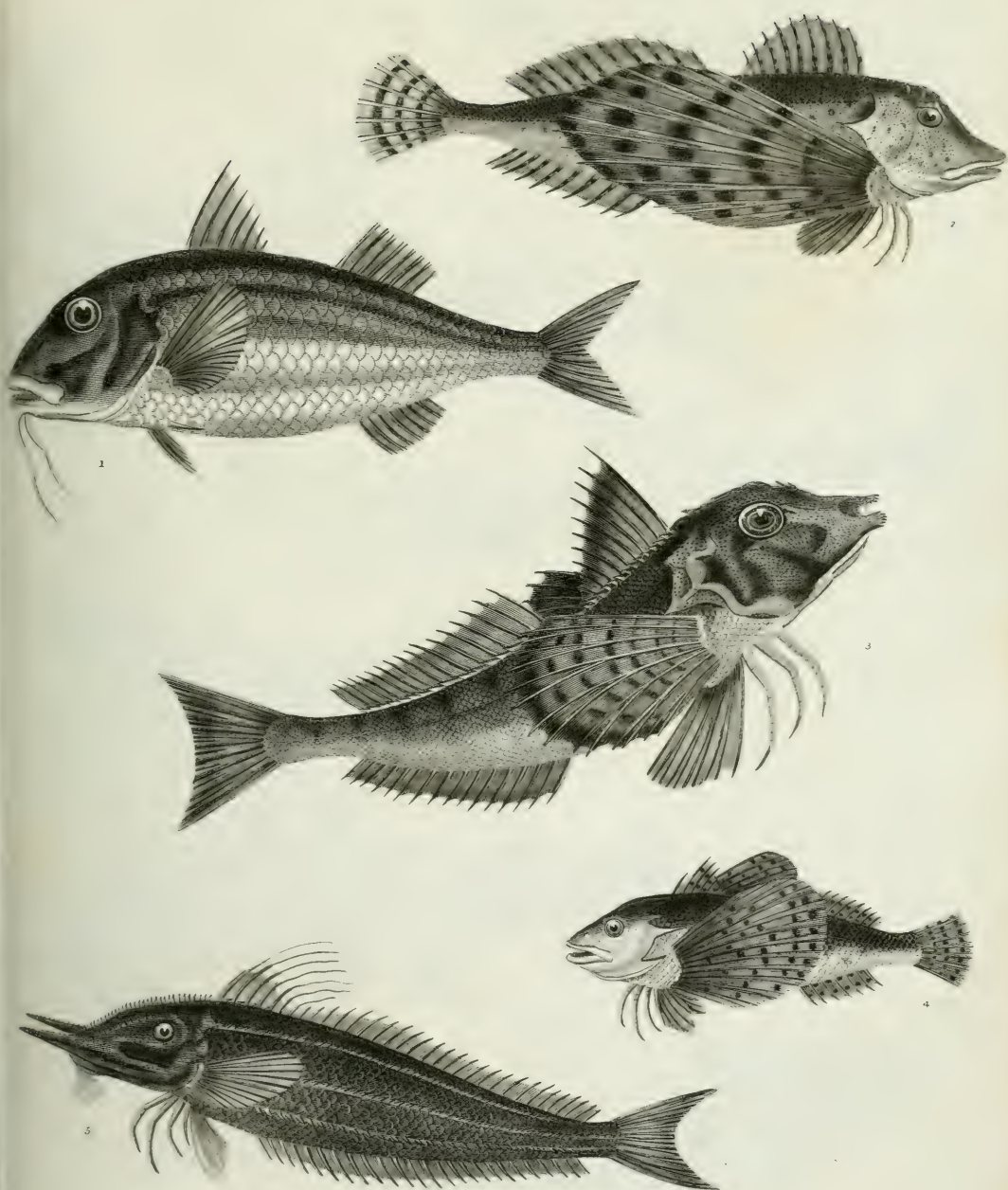


GENUS SCOMBER  
Mackerel

G. LONCHICRUS

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



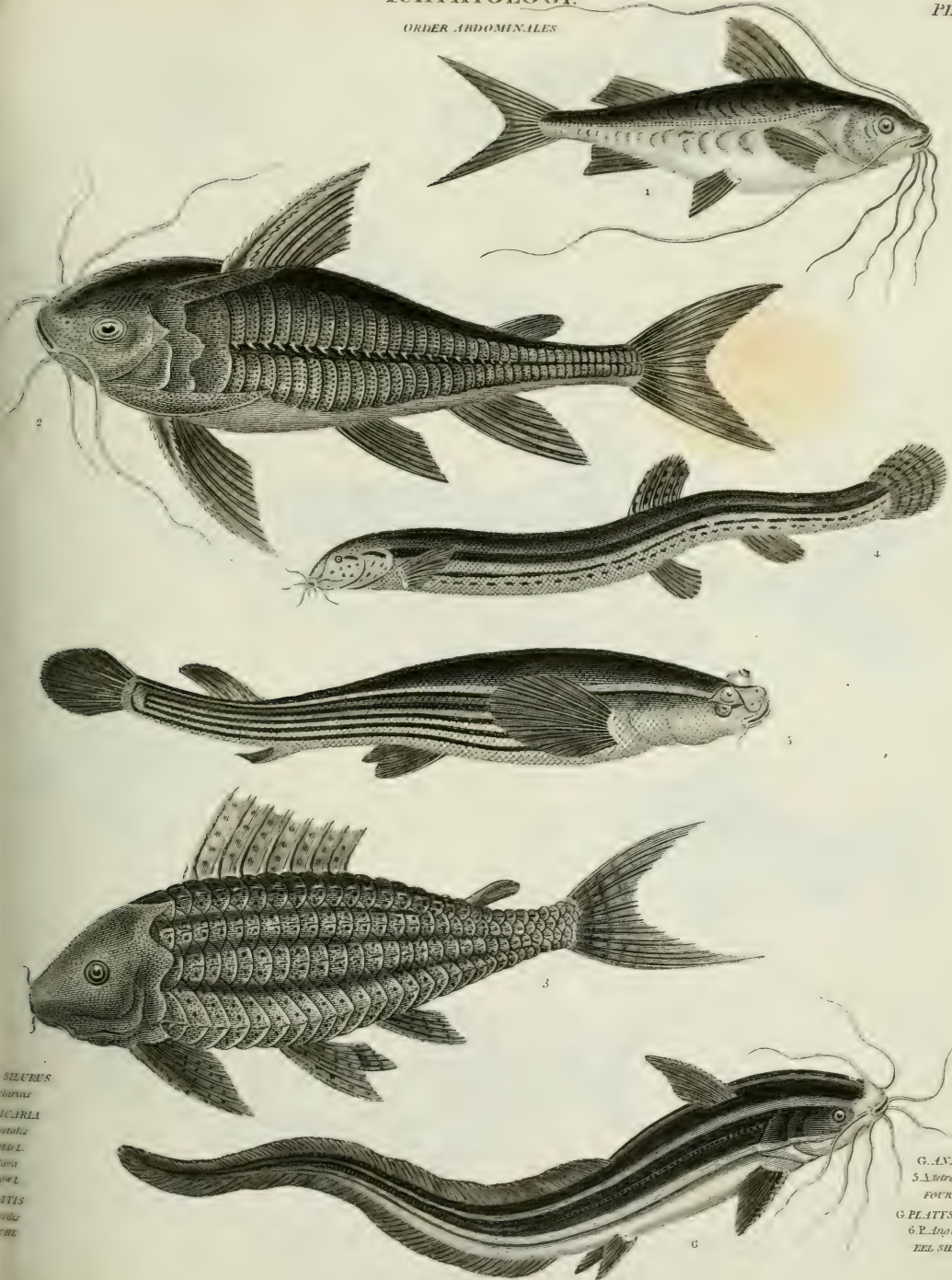


G. MULLUS  
Mullet

GENUS TRIGLA  
(Gurnard)

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

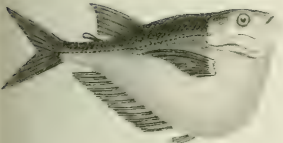
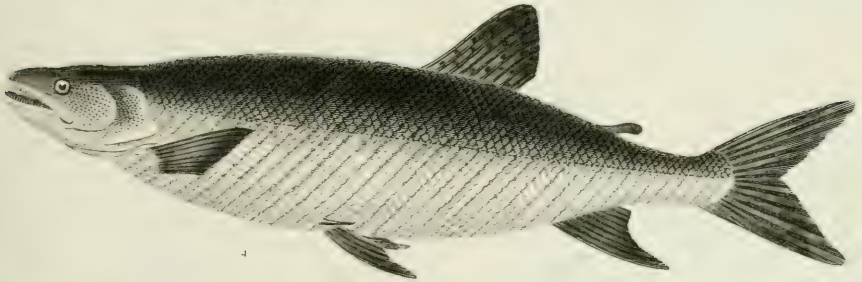
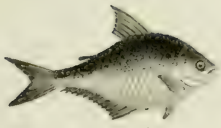




PUS SILURUS  
 S. Solaris  
 S. RIC-IRRI  
 S. rotatus  
 S. RED-L  
 S. Java  
 S. BLOW-L  
 S. BITIS  
 S. Gaudis  
 S. CBL

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





GENUS SALMO

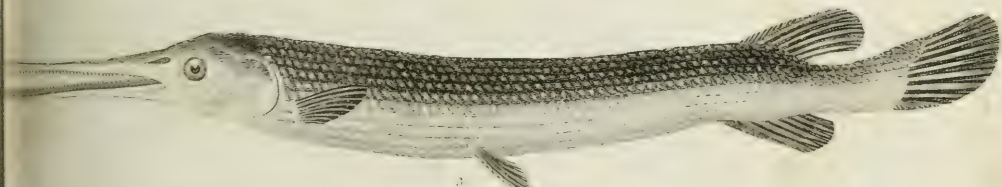
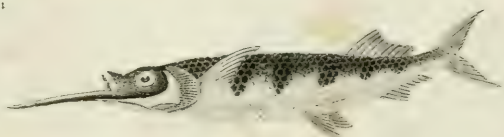
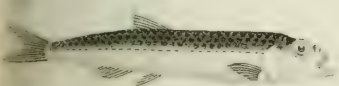
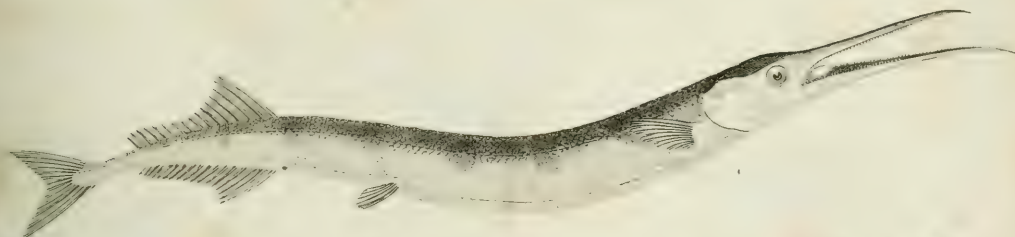
Salmon

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

Published as the Act directs. July 1<sup>st</sup> 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.

6<sup>th</sup> GAR FISH or BONY F.

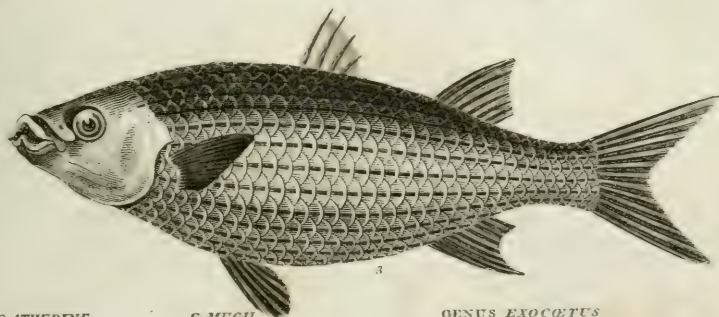
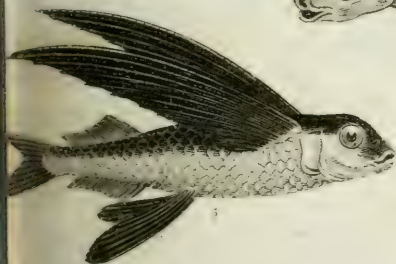
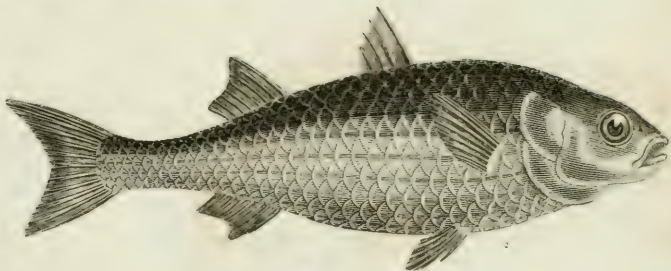
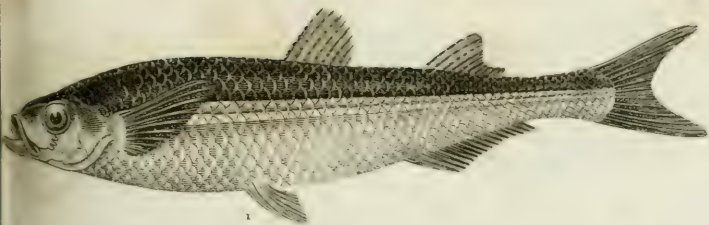
SEA PIKE or GAR F.

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)

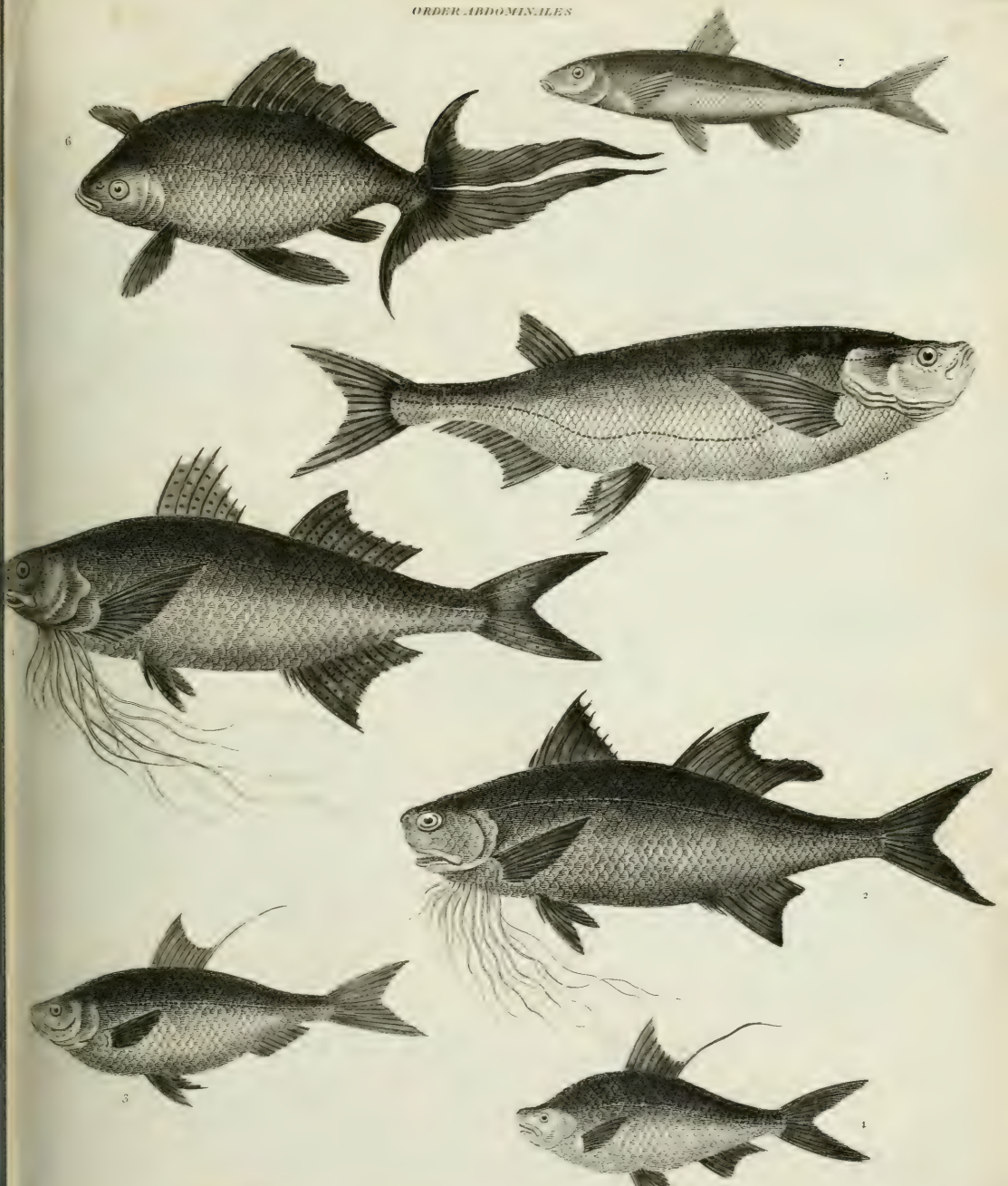
4. *E. volans*

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. Gilvatus

RAZOR C.

6. C. Auratus

GOLDEN C. var

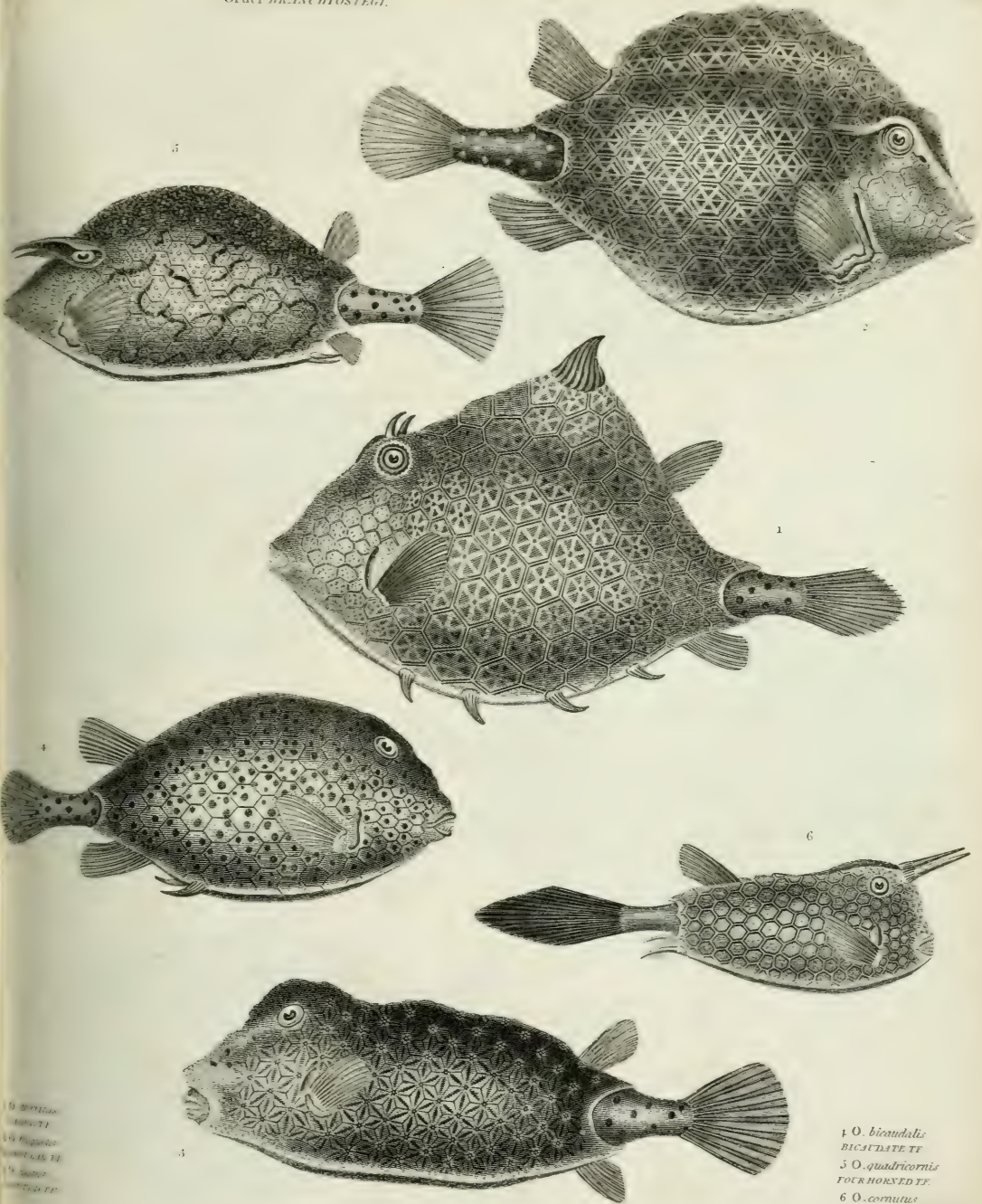
7. C. Phoxinus

MINOH

Milner sculp.



Order BRANCHIOSTEGI.

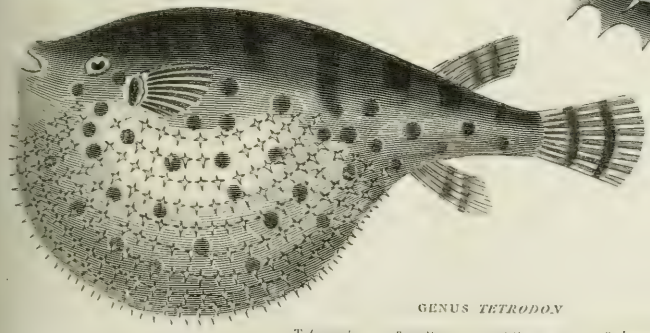
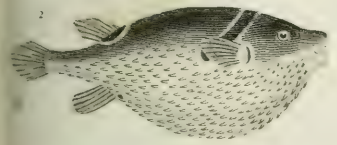
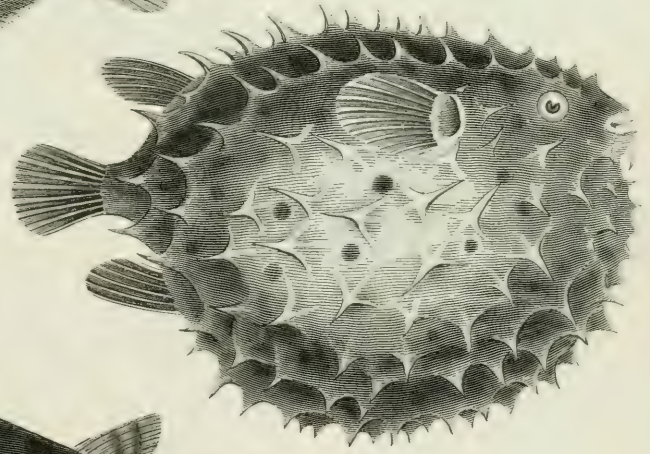
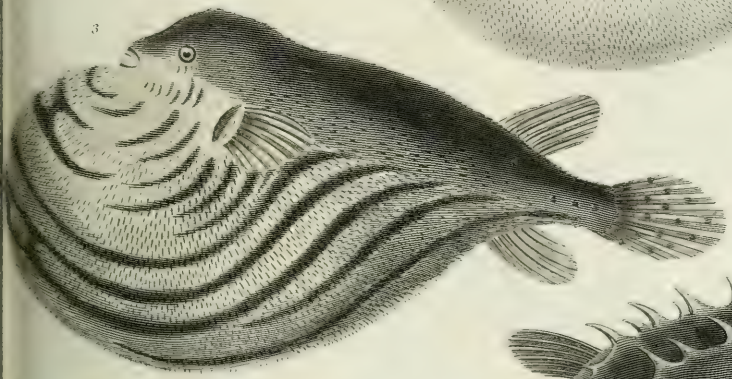
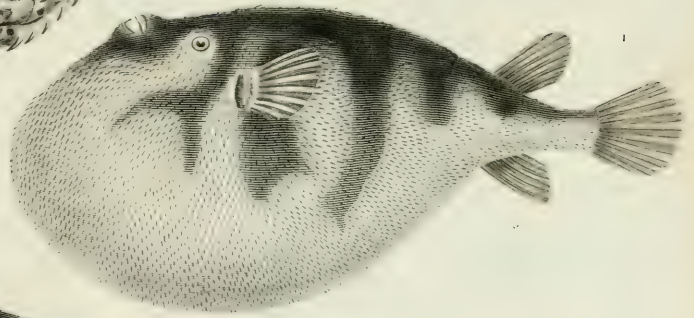
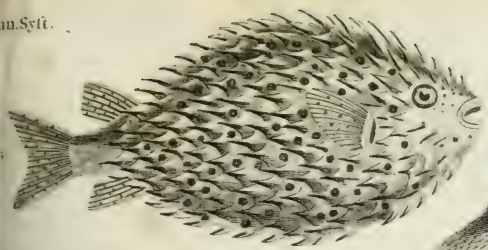


1 *O. bisulcatus*  
 BICUTATE TF  
 3 *O. quadricornis*  
 FOUR HORNED TF  
 6 *O. cornutus*  
 HORNED TF

*O. bisulcatus*  
*O. quadricornis*  
*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> |
| WINDY T.              | OCCELLATED.          | LINEATED.          | HARE T.                | FORCYPINE D.      | ROUND D.                |



Order Branchiostegi.

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

Pipe-Fish

Pegasus

Centiscus



1. *S. foliatus*  
FOLIATED P.F.

2. *S. acis*  
GREAT P.F.

3. *S. hippocampus*  
SEA HORSE P.F.

4. *D. Draco*  
DRAGON P.

5. *E. natans*  
SWIMMING P.

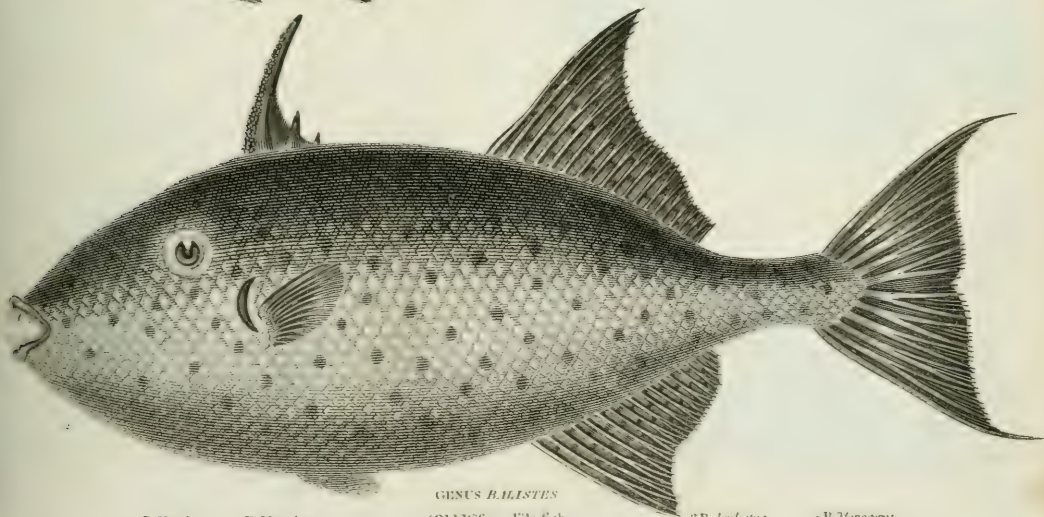
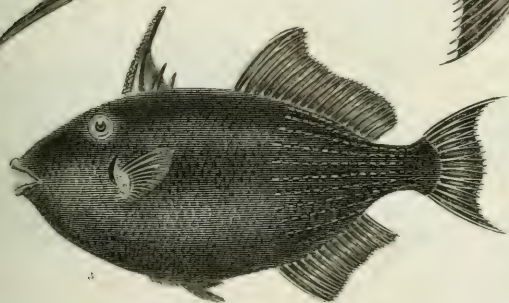
6. *C. scutatus*  
MAILED C.

\* *magnirostris*  
4 under *curvica*

Published as the 1st division April 1. 1853 by Longman Hurst, Roe & Co. Paternoster Row



ORDER BRANCHIOSTEGI



1. *B. Vetus*  
OLD WIFE.

2. *B. Maculatus*  
SPOTTED OW.

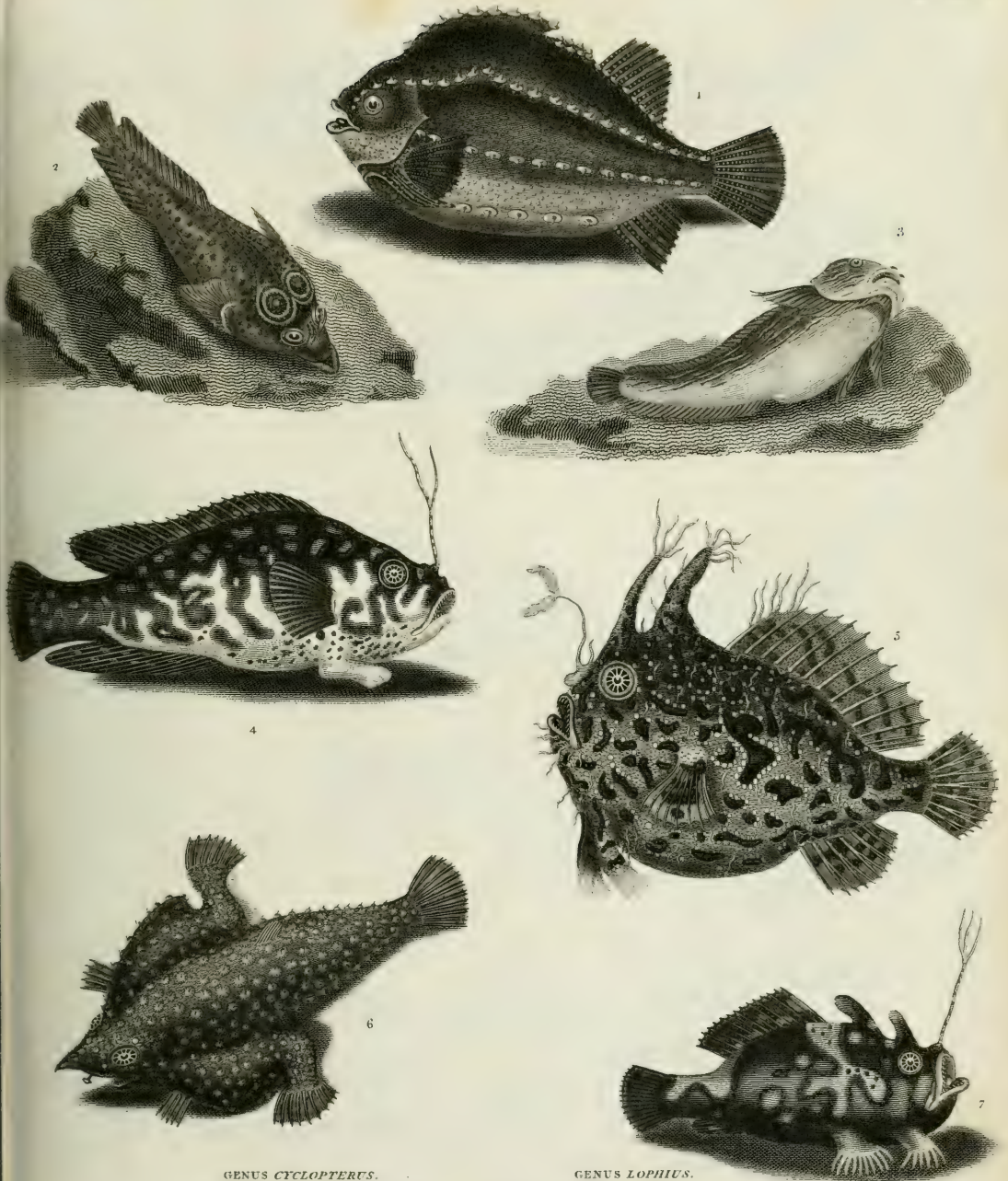
GENUS BALISTES  
(Old Wife or File fish)

3. *B. Leucatus*  
ACULEATED OW.

4. *B. Monoceros*  
ONE HORNE OW.

Published at the Art Store, June 27 1855, by Longman Hotel, No. 5, Corner, BROADWAY & N. Y.





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)





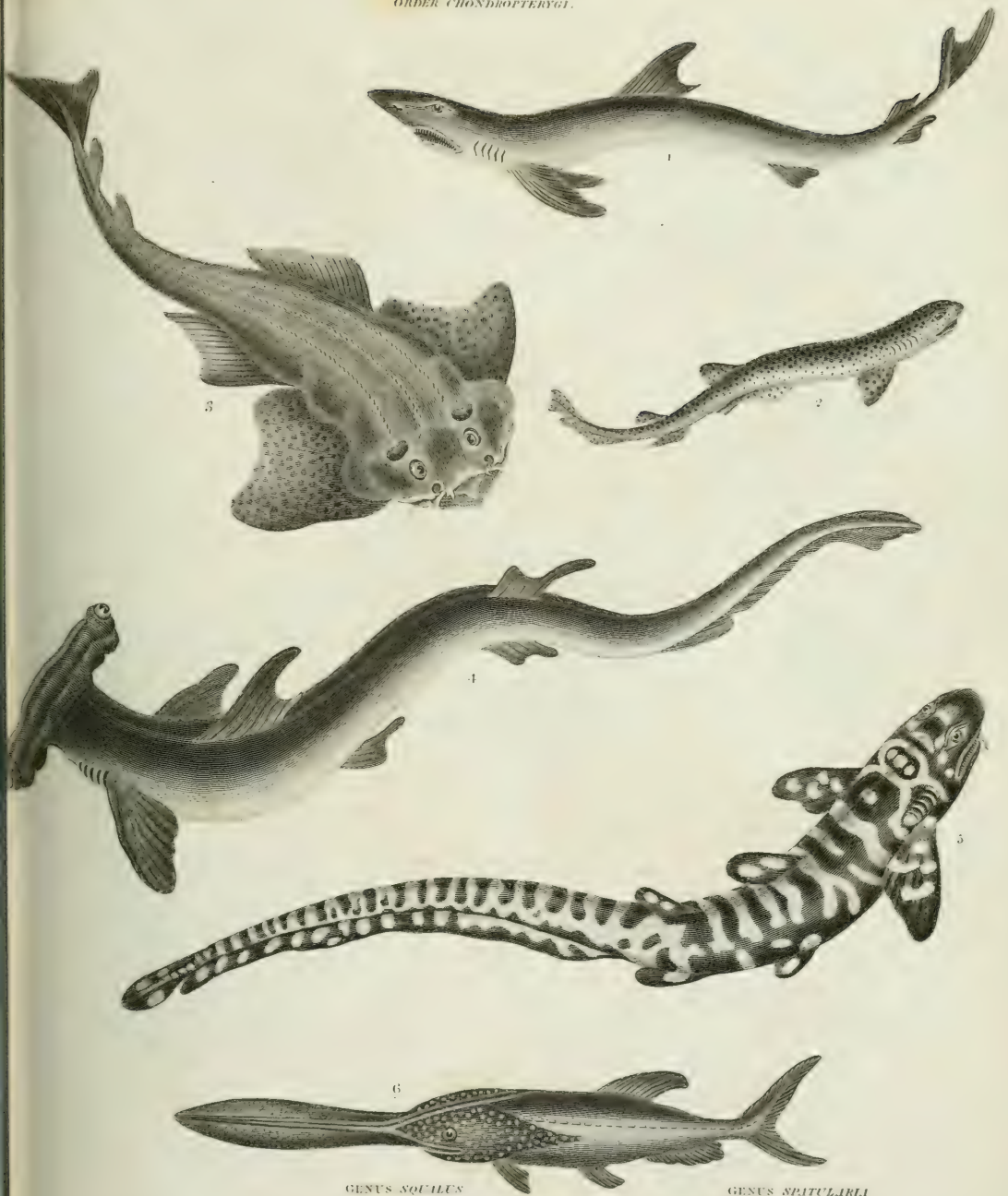
ICHTHYOLOGY.  
ORDER CHONDROPHYGII.  
Gen. Acipenser. G. Chimara. G. Pristis.



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

Published at the Art directed, Sep. 25th by Longman Hurst, Reed & Orme, Paternoster Row.

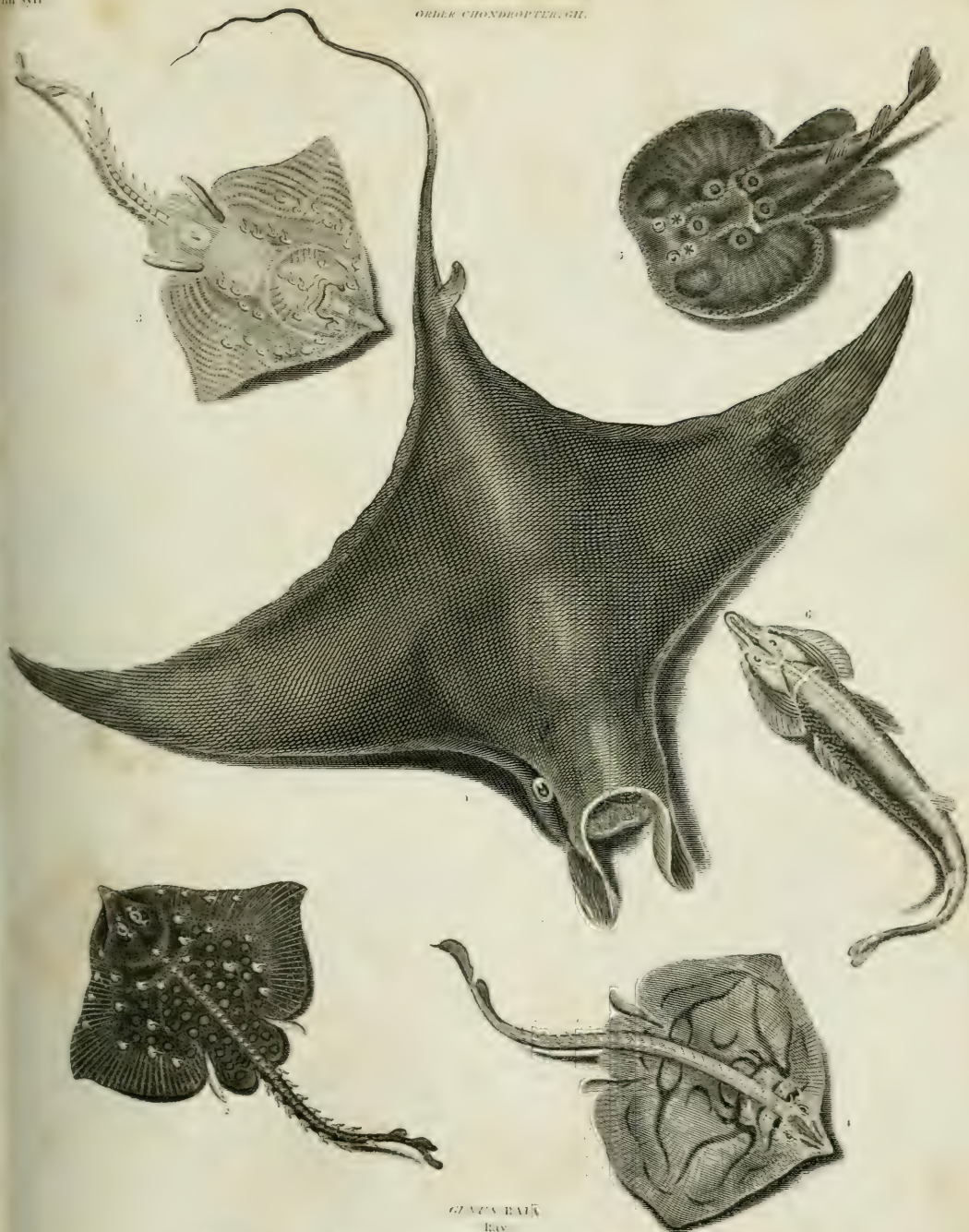




GENUS <i>SQUALUS</i> (Shark)			GENUS <i>SPATULARIA</i>		
1. <i>Glaucus</i>	2. <i>Catulus</i>	3. <i>Squatina</i>	4. <i>Zygaena</i>	5. <i>Zebra</i>	6. <i>Sp. reticulata</i>
BLUE S.	LESSER SPOTTED DOG FISH.	ANGEL S.	HAMMERHEADED S.	ZEBRA S.	RETICULATED SP.

Published as the Act directs Dec<sup>r</sup> 1868 by Longman, Hurst, Kees & Orme, Paternoster Row.



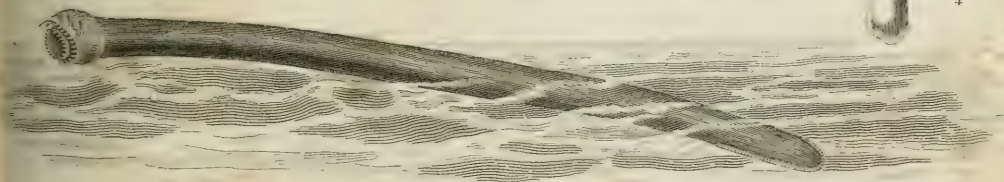
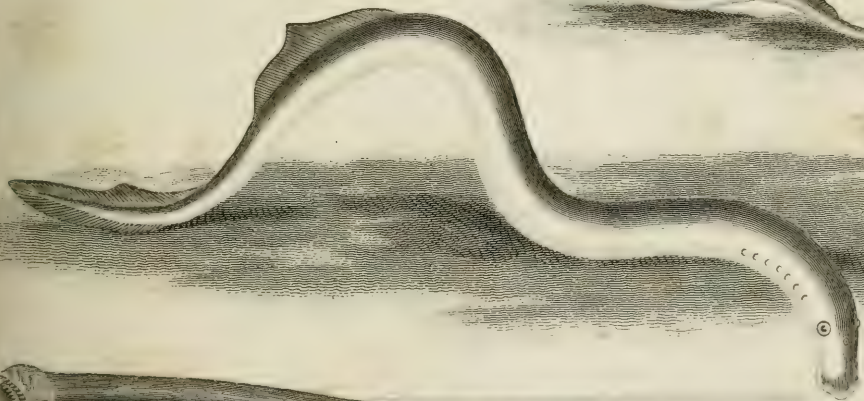
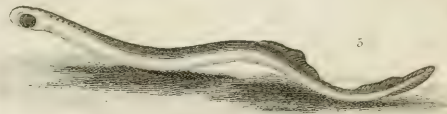
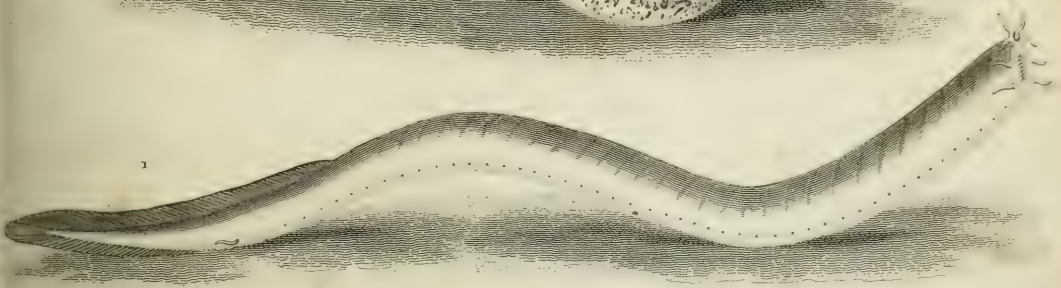


Giant Ray  
Ray

1. <i>R. diabolus</i>	2. <i>R. albatross</i>	3. <i>R. radiatus</i>	4. <i>R. propinqua</i>	5. <i>R. chimaera</i>
DAEMON R.	THUNDERBOLT	SPOTTED R.	COMMON R.	LONG TAIL R.



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, Rea Orme & Deacon, Lithographers, London





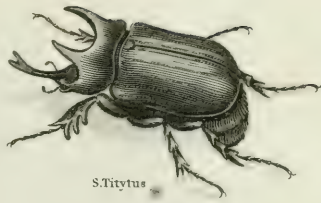
ENTOMOLOGY

Order Coleoptera.

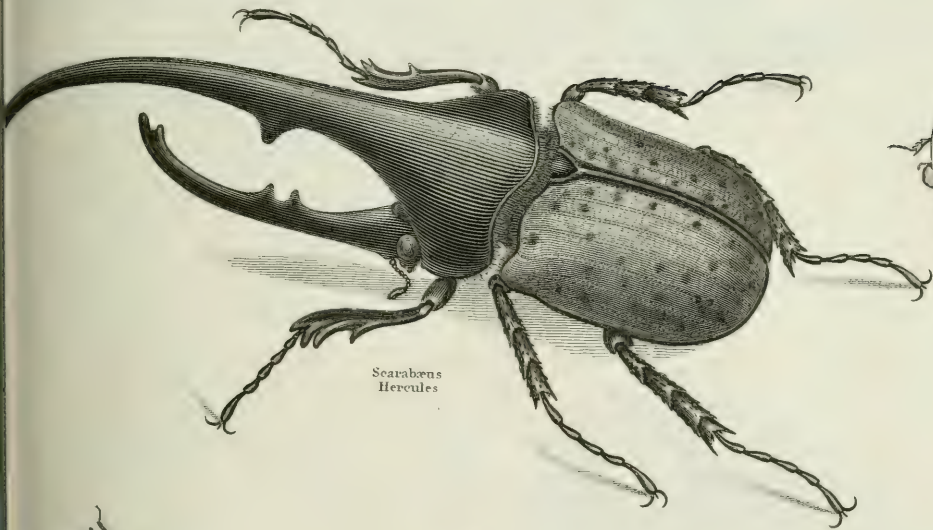
GENUS SCARABÆUS.



S. Chorinæus



S. Titytus



Scarabæus  
Hercules



S. Carnifex  
mal



S. Carnifex  
adult



S. Molossus



S. Sacer

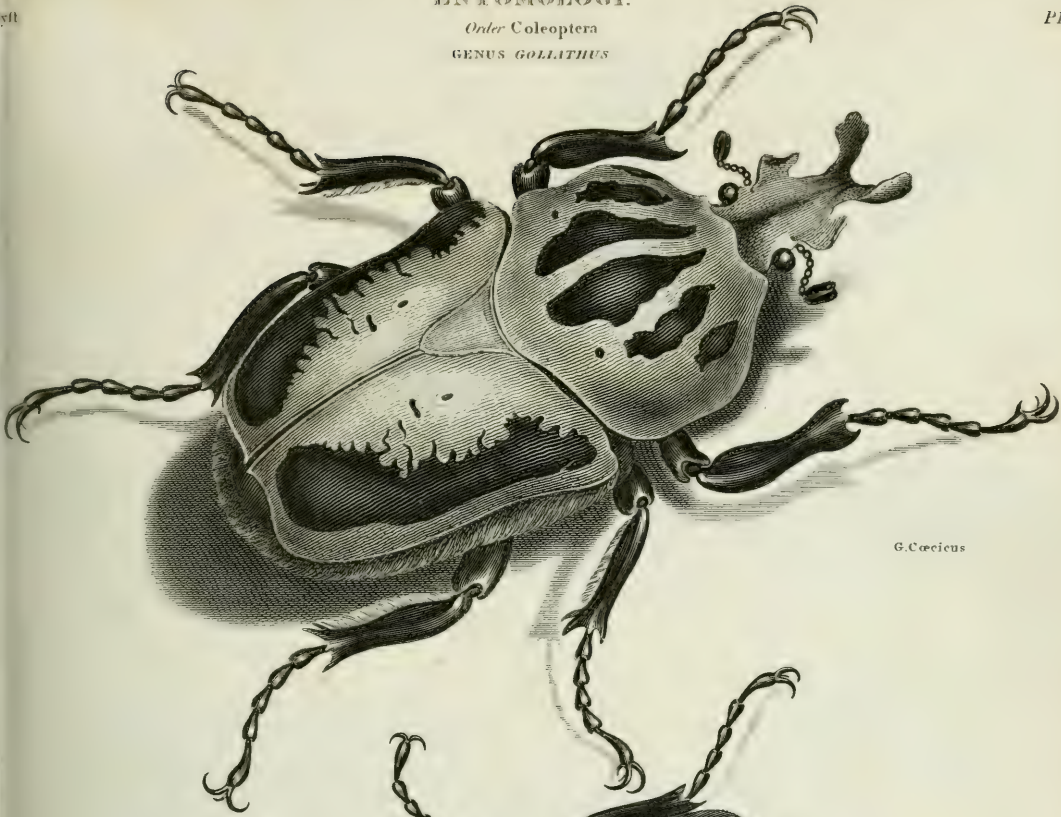


ENTOMOLOGY.

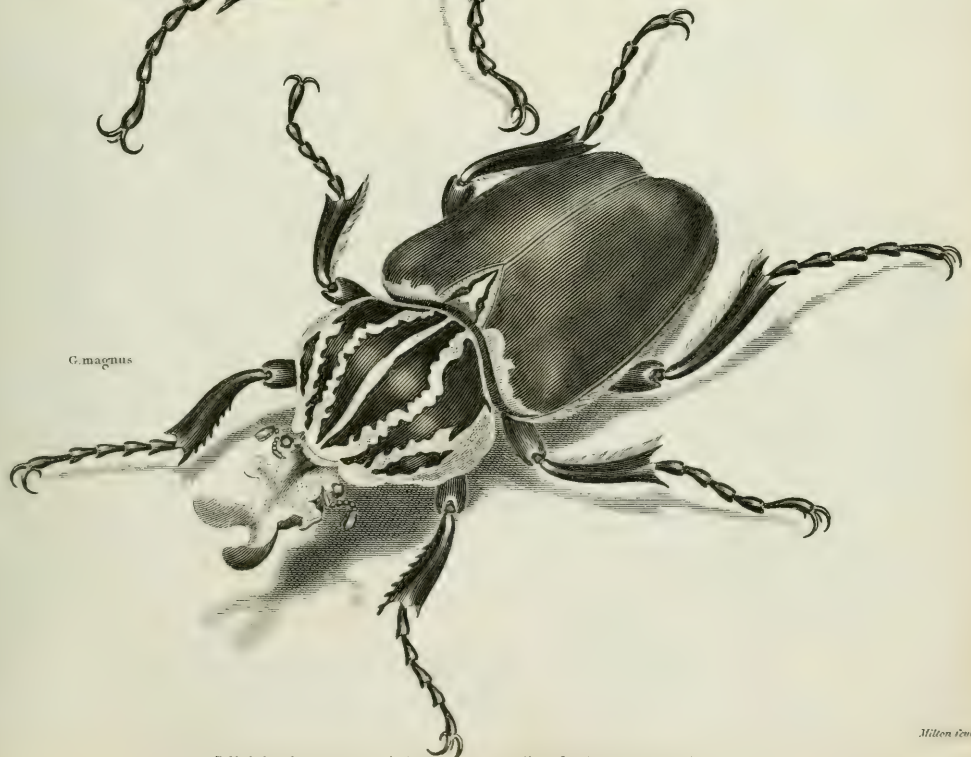
Order Coleoptera

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. scotias* - 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. beta

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

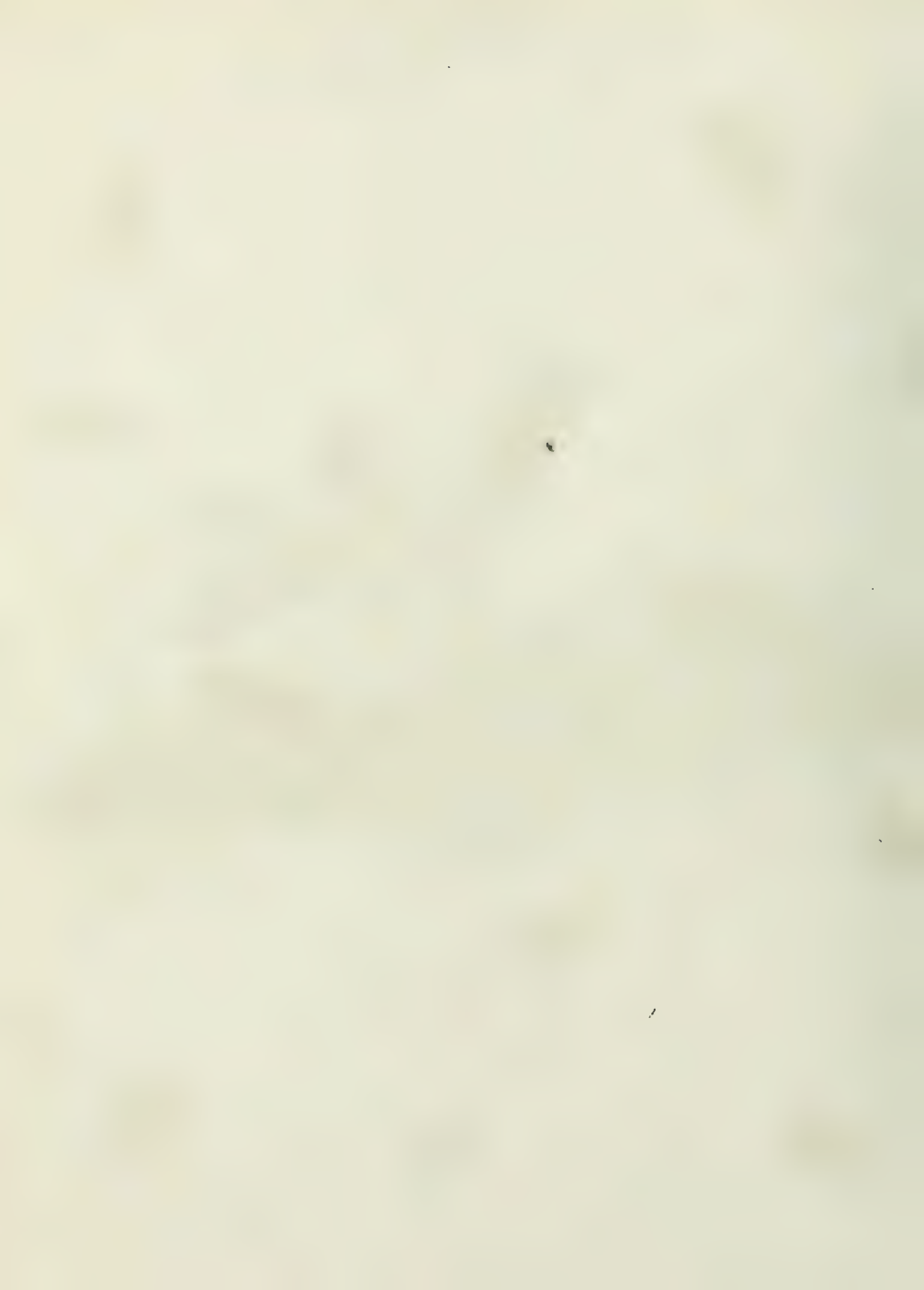


- 9 S. immator
- 10 S. obscura
- 11 S. quadrimaculata



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





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



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

\* magnified † under surface



# 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*





*guttata*  
*annamensis*  
*punctata*  
*sincoensis*  
*impex*  
*orbata*  
*alydus*

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





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



13 cordiger  
 12 variabilis  
 11 distinguendus

12 P. fichteli  
 13 P. pectinatus  
 \* 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. brachypteros*  
*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.

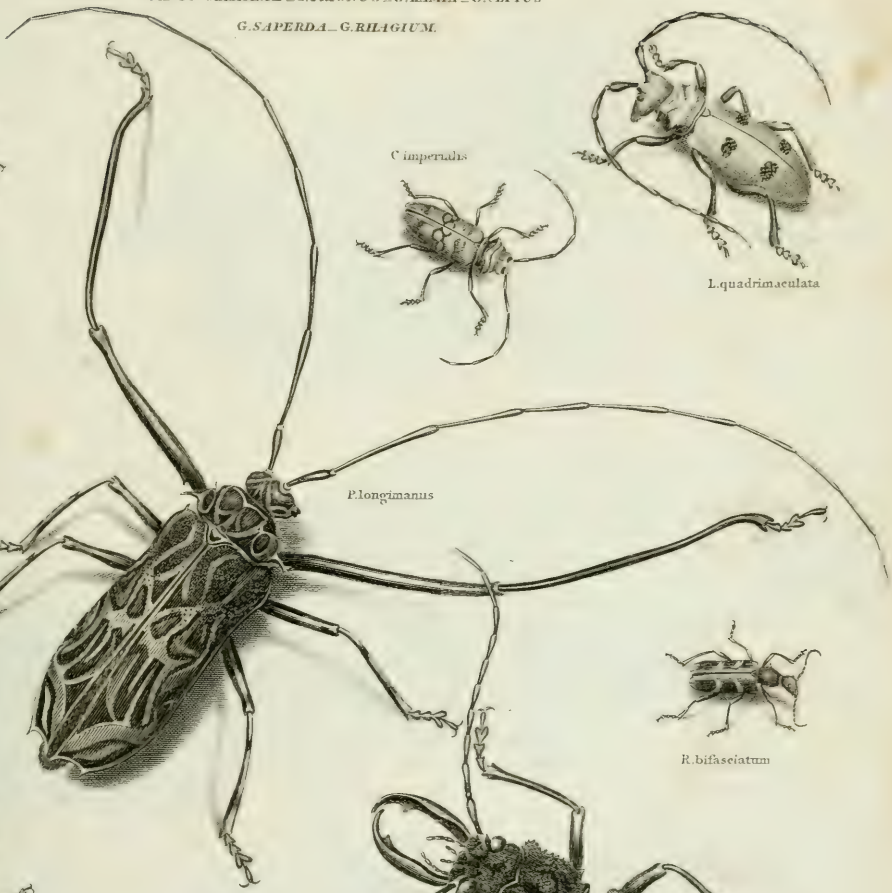
Order Coleoptera.

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

G. SAPERDA - G. RHAGIUM.



S. collaris



P. longimanus



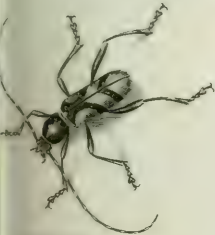
L. quadrimaculata



C. imperialis



R. bifasciatum



C. thoracicus



P. nuditarsus



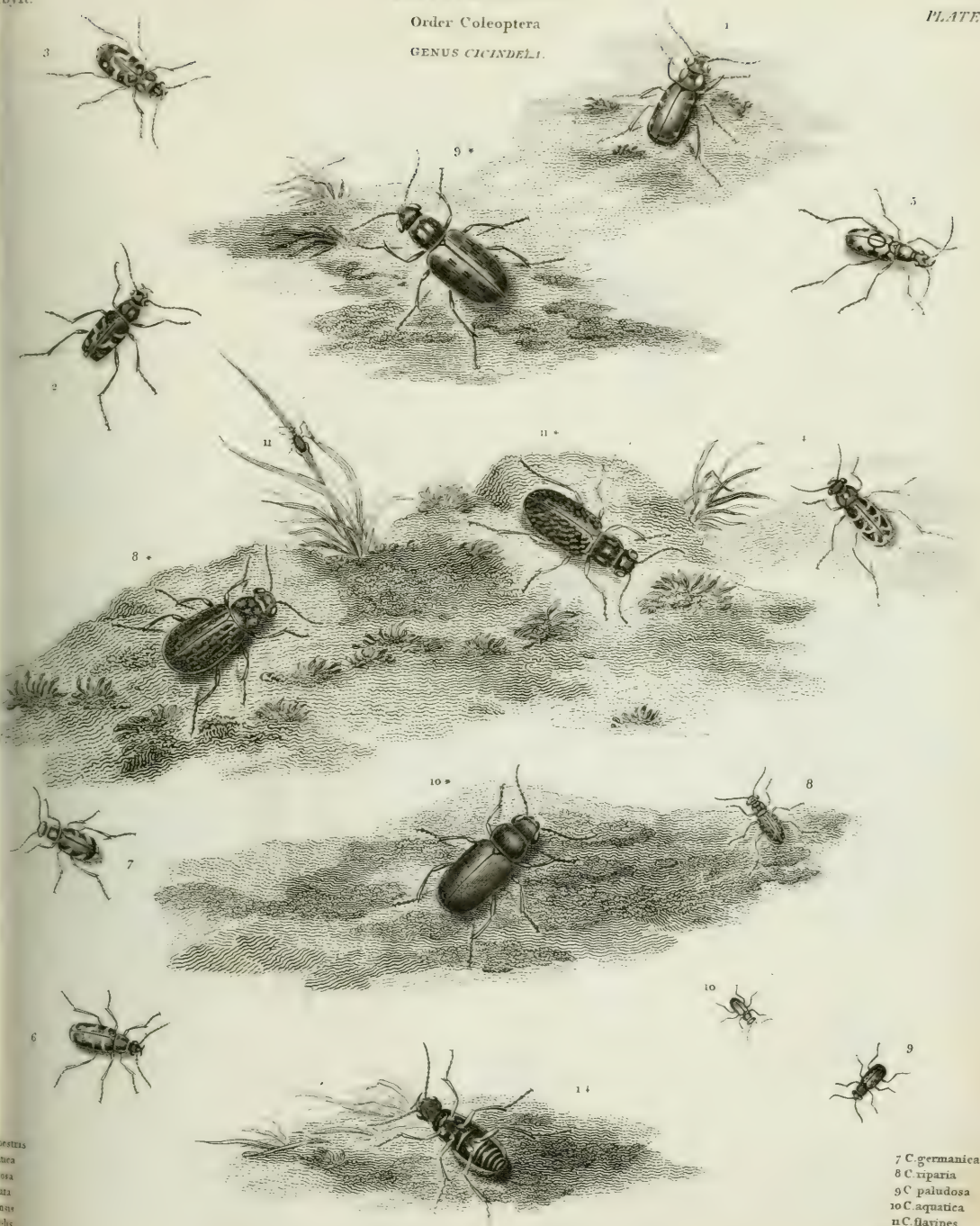
S. nigro-virens



# ENTOMOLOGY.

Order Coleoptera

GENUS CICINDELA.



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

\* magnified 4 under surface





# ENTOMOLOGY.

Order Coleoptera.

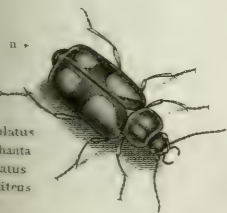
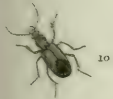
GENUS *DYTISCUS*



- 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*





8 C. maculatus  
9 C. cyclophanta  
10 C. punctatus  
11 C. arenarius

5 C. arenarius  
6 C. granularis

\* 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. septimum

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



Ann. Syst.

Order Coleoptera.



1. *vesicatoria*  
 2. *rubia*  
 3. *proscarabans*  
 4. *variegatus*  
 5. *bicolor*  
 6. *flava*  
 7. *dorsalis*  
 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. 20 *Cantharis*



G. 21 *Elater*





Order Hemiptera.

Genus MANTIS.



Mantis Bispinosa.



M. Precaria.



Blatta Orientalis



M. Gongylodes.



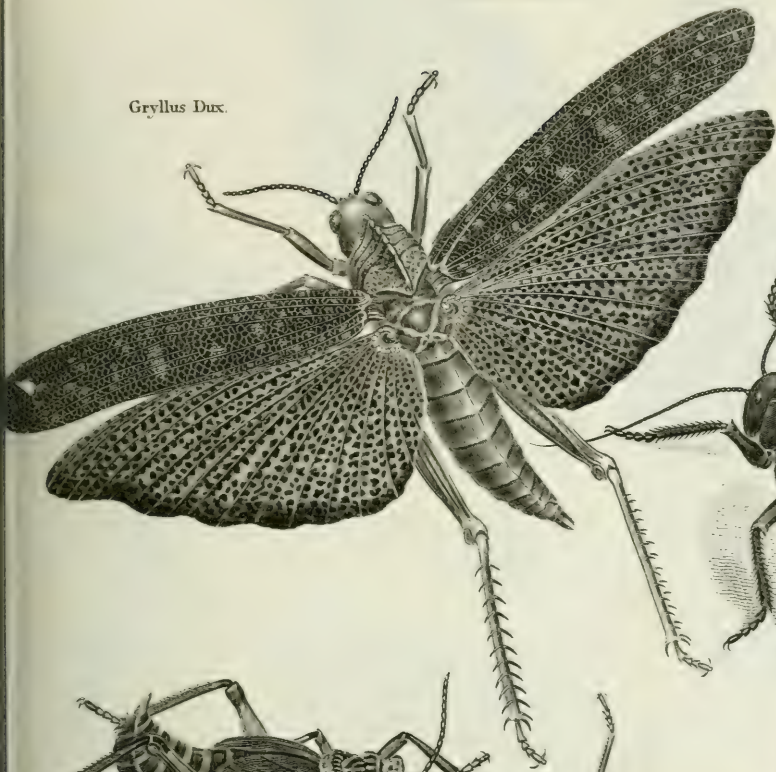
M. Strumaria.



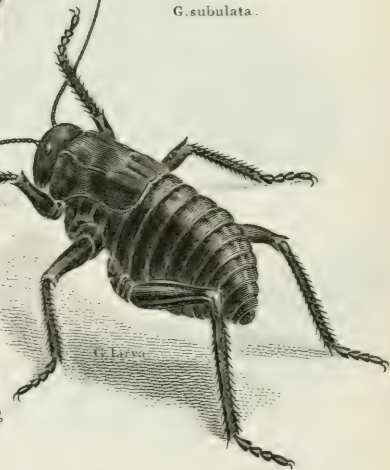
Order Hemiptera.

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. hematodes

F. lanternaria

C. spinosa

C. taenus

C. stridula

C. tibicen

Notonecta  
Glauca

F. candelaria

C. phalaenoides

C. sanguinolenta

F. lanternaria





Order Hemiptera.

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





Order Lepidoptera.

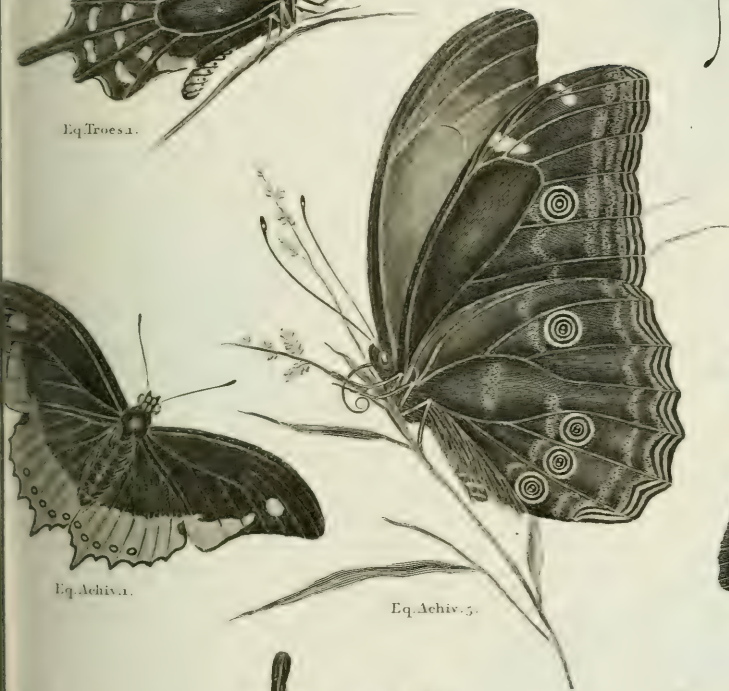
Genus PAPILIO.



Eq. Troes. 1.



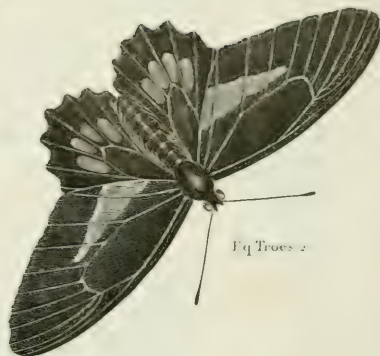
Eq. Achiv. 1.



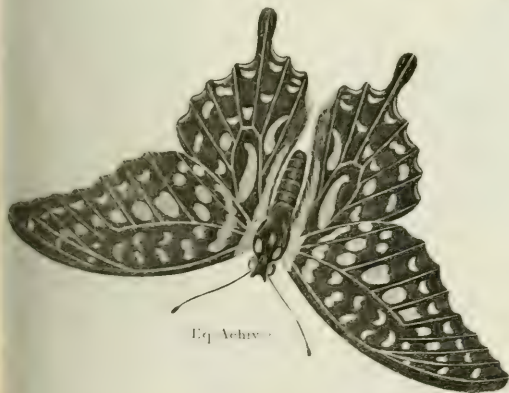
Eq. Achiv. 5.



Eq. Achiv. 1.



Eq. Troes. 2.



Eq. Achiv. 3.



Eq. Achiv. 3.



Order Lepidoptera.

Genus SPHILIX.



Sesia



Sphinx



Sphinx



Sesia



Zygæna



Sphinx



Sesia



Zygæna



B. Laocoon



B. Paronia



Bombyx Tau



B. Atlas



B. Luna





ENTOMOLOGY.  
Order Lepidoptera Genus Bombyx.



B. quercifolia.



B. versicolora



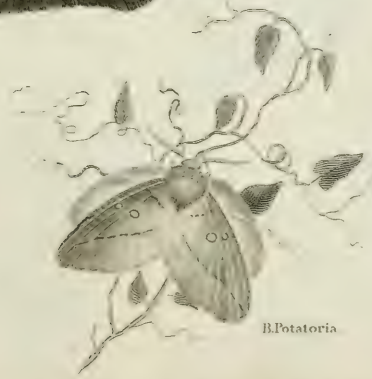
Bombyx vinula.



B. Saturnus.



B. Potatoria



B. Potatoria



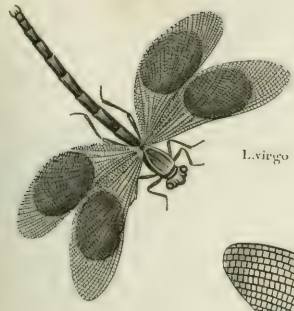
B. Hebe.



# ENTOMOLOGY.

## ORDER NEUROPTERA.

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



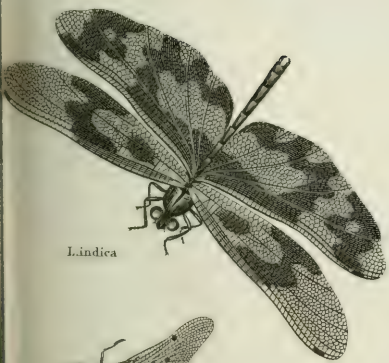
*L. virgo*



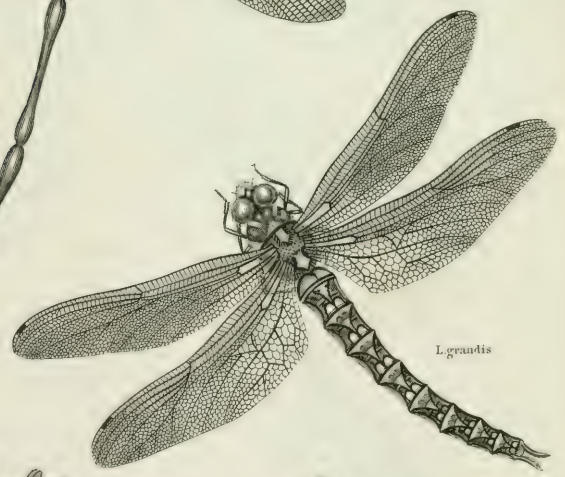
*L. clavata*



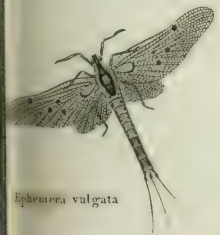
*Libellula linearis*



*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. SPHIA



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

6. *S. juvenis*  
 7. *S. Jobati*  
 8. *I. flavicornis*  
 9. *I. persusatoris*  
 + *marginata*

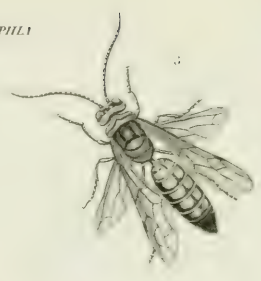




# ENTOMOLOGY.

Order Hymenoptera.

GENUS AMMOPHILA - G. SCOLIA - G. THYENUS - G. LEUCOPYSIS - G. TIPHI  
G. CHALCIS - G. CHRYSIS.



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

6 Tip. villosa  
7 Cha. sispes

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



Order Hymenoptera.



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



# ENTOMOLOGY.

Order Diptera.

GENUS *GESTRUS*. G. *TIPULA*. G. *DIOPSIS*.



1. *G. tipula*  
 2. *G. aurata*  
 3. *G. plumosa*  
 4. *G. pectinicornis*  
 5. *G. diopsis*  
 6. *G. magnificus*

8. *T. crocata*  
 9. *T. punctata*  
 10. *T. aurata*  
 11. *T. plumosa*  
 12. *T. pectinicornis*  
 13. *D. diopsis*  
 14. *D. magnificus*  
 15. *D. female*



# ENTOMOLOGY.

Order Diptera.

GENUS MUSCULI.



M. Noctiluca

M. bifimbrata



M. Scytharum

M. Nigrans



M. horticola



M. Tenax  
Syrphus tenax F.



M. bifasciata



M. Ceria Clavicornis F.



M. Fasciata



M. Florea



M. Analis Bibio F.



M. Vespiiformis



M. lurida



M. Cupraria



M. grossa



M. Onopordini



M. Cupraria



M. morio



Chamaedon  
Stratiomyis F.



M. Pendula



M. Tenax  
Syrphus tenax F.



M. Triangulara



M. Nemotelus Uliginosus



M. Solstitialis



M. Scolopacea  
Bhagis Scolopacea F.



M. Stellata



Magnificat.  
Fernald.  
Fabricius.







1 T. bovinus  
 2 T. tropicus  
 3 T. hominus  
 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. pungens  
 \* magnified & female



Order Diptera



*Sarcophaga*  
*scutellata*  
*petiolata*  
*teucomis*  
*gibbosus*  
*caudiformis*

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



ENTOMOLOGY.

Order APTERA.

PLATE V  
of APTERA

GENUS LEPISMA

G. PODURA ... G. TERMES



L. punctata

L. obscura

G. villosa

L. lineatus

L. polypoda

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. & S. 1819 by Longman Hurst, Lesse & Co. in Strand London



Order Aptera

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



- 1 P. humanus  
HUMAN L.
- 7 P. asini  
ASS L.
- 3 P. cyni  
SWAN L.
- 17 P. cervi  
CRISP L.

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

- 7 P. columbe  
PIGEON L.

- 8 P. pluralis  
FLOVER 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  
\* ragnicoid  
: rasil





ENTOMOLOGŸ.

Order APTERA.

PLATE

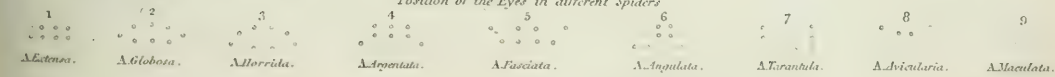
GENUS TARANTULA, G. PHALANGIUM, G. NYMPHON, G. PYCNOGONUM.

inn. Syst.





Order Aptera.  
GENUS ARANEI  
(Spider)





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 of the late Mr. J. G. Cuvier, and the late Mr. J. G. Cuvier, and the late Mr. J. G. Cuvier, and the late Mr. J. G. Cuvier.*



# CRUSTACEA.

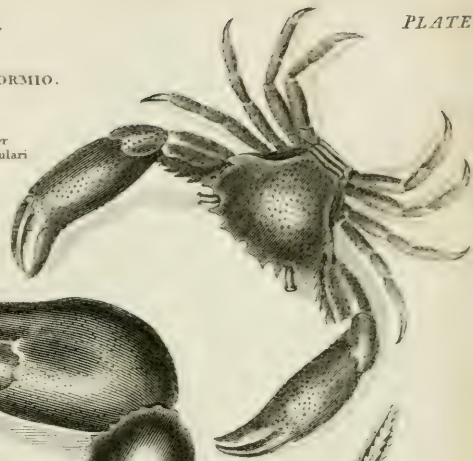
Order *CANCER*

GENUS *DORIPPE* GENUS *DORMIO*.

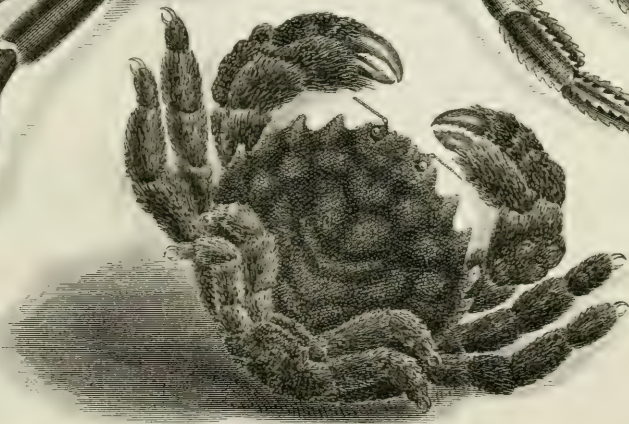


*Dorippe facchino*

*Cancer faculari*



*Cancer ruficola*



*Dormio artificiosa*

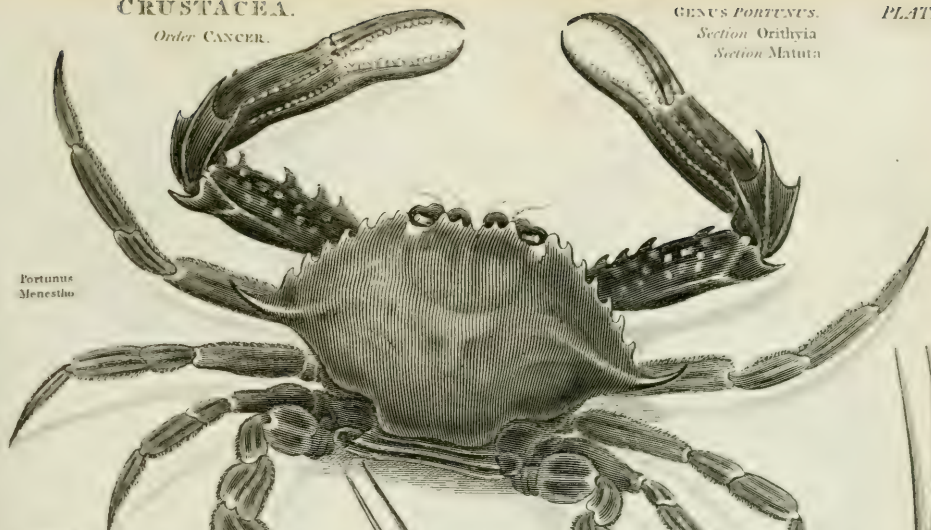




Order CANCER.

Section Orithya  
Section Matuta

Portunus  
Menestho



Portunus  
Forecps



Orithya  
Mammillars



Matuta  
Lunaris







*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. .... duhuus
- 6 C. .... linearis
- 7 C. .... fluviatilis



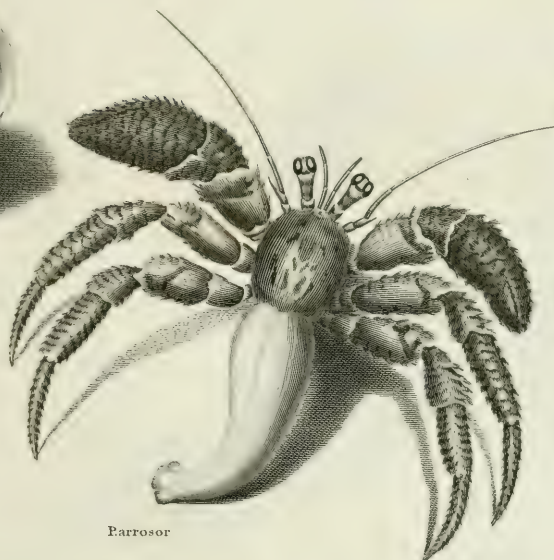
CRUSTACEA.

Order CANCER.

GENUS PAGURUS - G. GAMMARUS - G. GAMMARELLUS.



P. excavatus



Parrosor



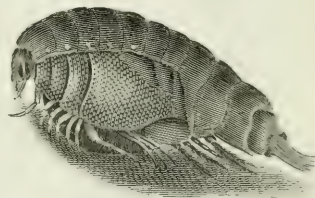
Peanaticulatus



G<sup>l</sup><sup>re</sup> mantis



G<sup>l</sup><sup>re</sup> podurus



G ampulla



G<sup>l</sup><sup>re</sup> paludosus



nat size



G<sup>l</sup><sup>re</sup> spinosus



G<sup>l</sup><sup>re</sup> pulex haster

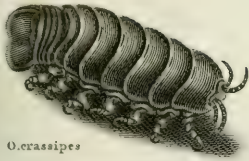


G<sup>l</sup><sup>re</sup> linearis





Order *APTERA*



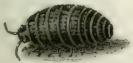
*O. crassipes*



*M. quadricornis*

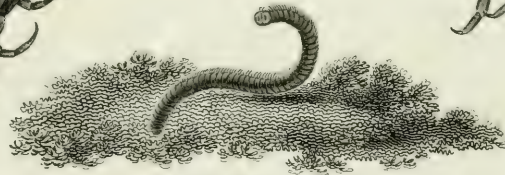
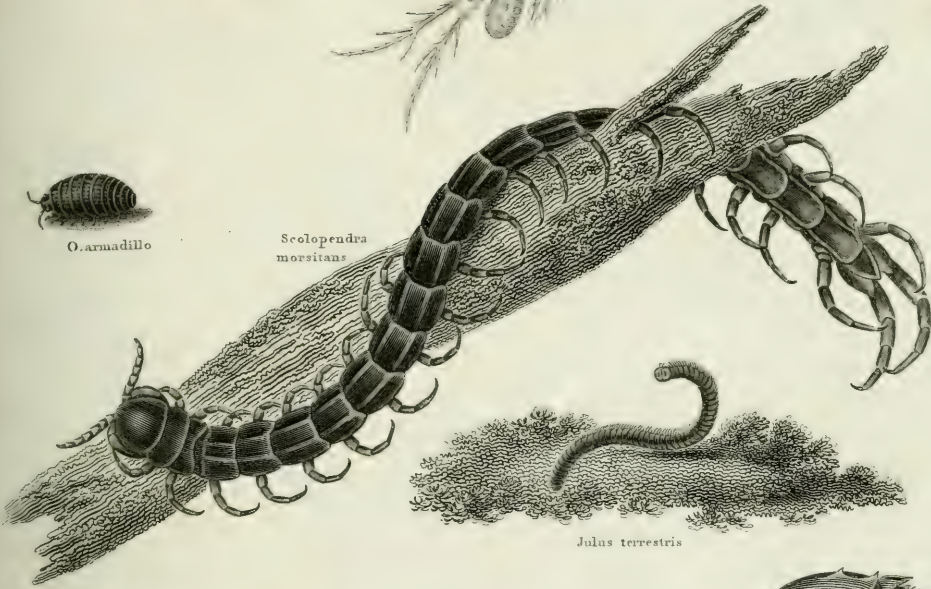


*O. oceanicus*

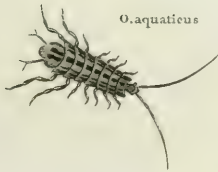


*O. armadillo*

*Scolopendra morsitans*



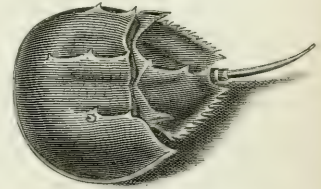
*Julus terrestris*



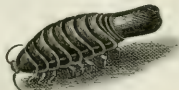
*O. aquaticus*



*Oniscus psora*



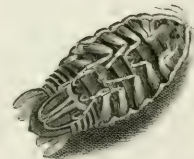
*M. polyphemus*



*O. oestrum*



*Monoculus polyphemus*



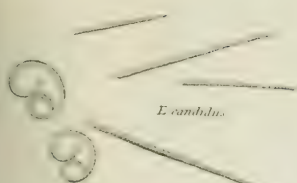
*O. psora*



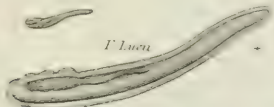
VERMES.

Order Intestata.

Genus ASCARIS\_G.ECHINORHINCHUS\_G.FISCIOLOA\_G.LINGULATA.



*E. candidus*



*F. lucia*



*F. alba*



Head \*



Head \*



*F. brunnea*



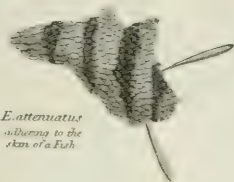
*F. coryphæna*



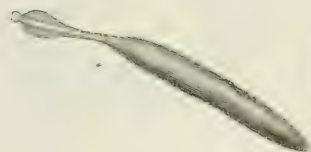
*E. lineolatus*



Head \*



*E. attenuatus*  
adhering to the  
skin of a Fish



*E. attenuatus*



*L. abrupta*



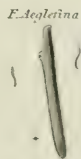
*A. vermicularis*



*L. abrupta*



*F. scorpiæ*



*E. agleina*



*F. leucospereæ*



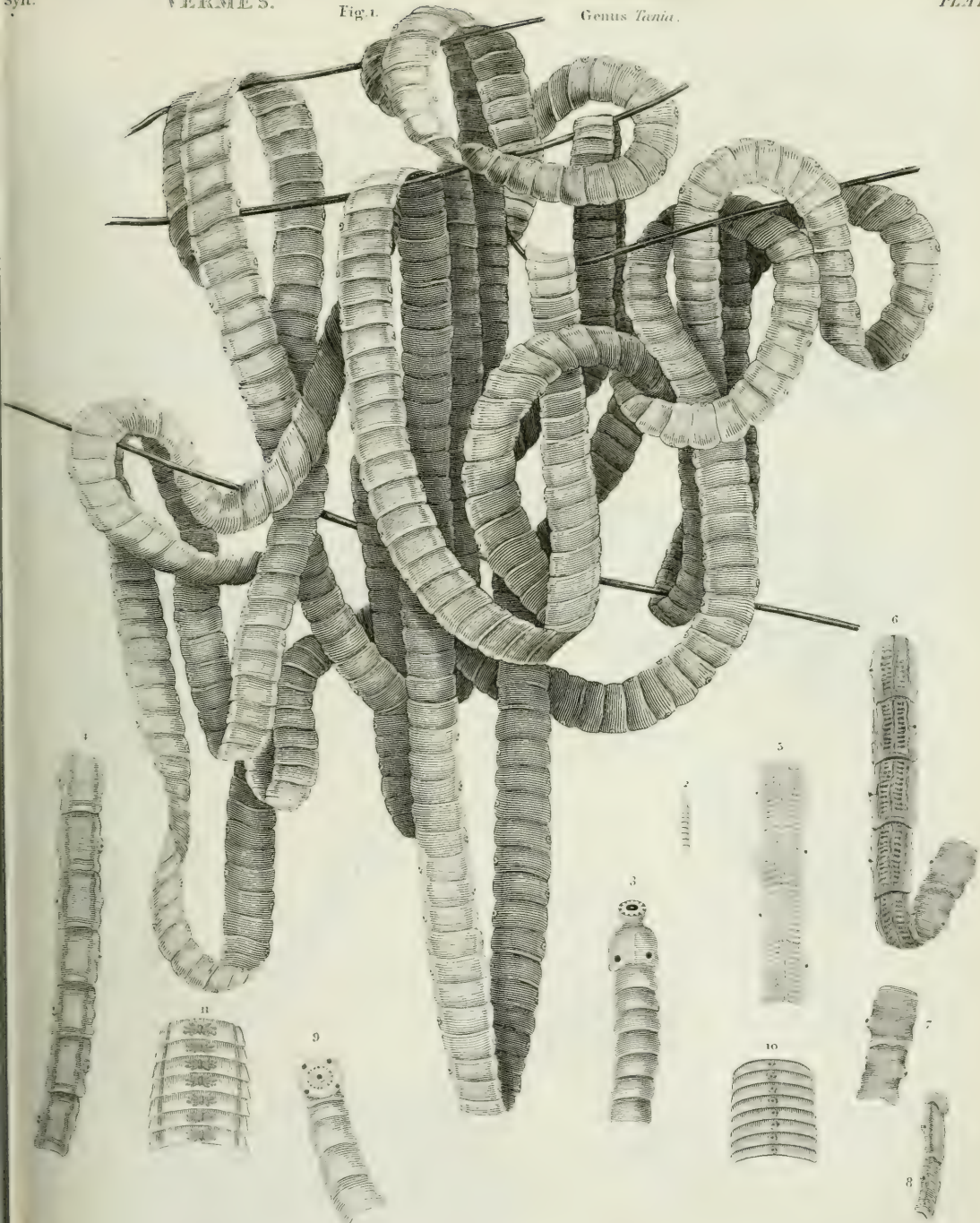
*F. binodis*



*F. brama*



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

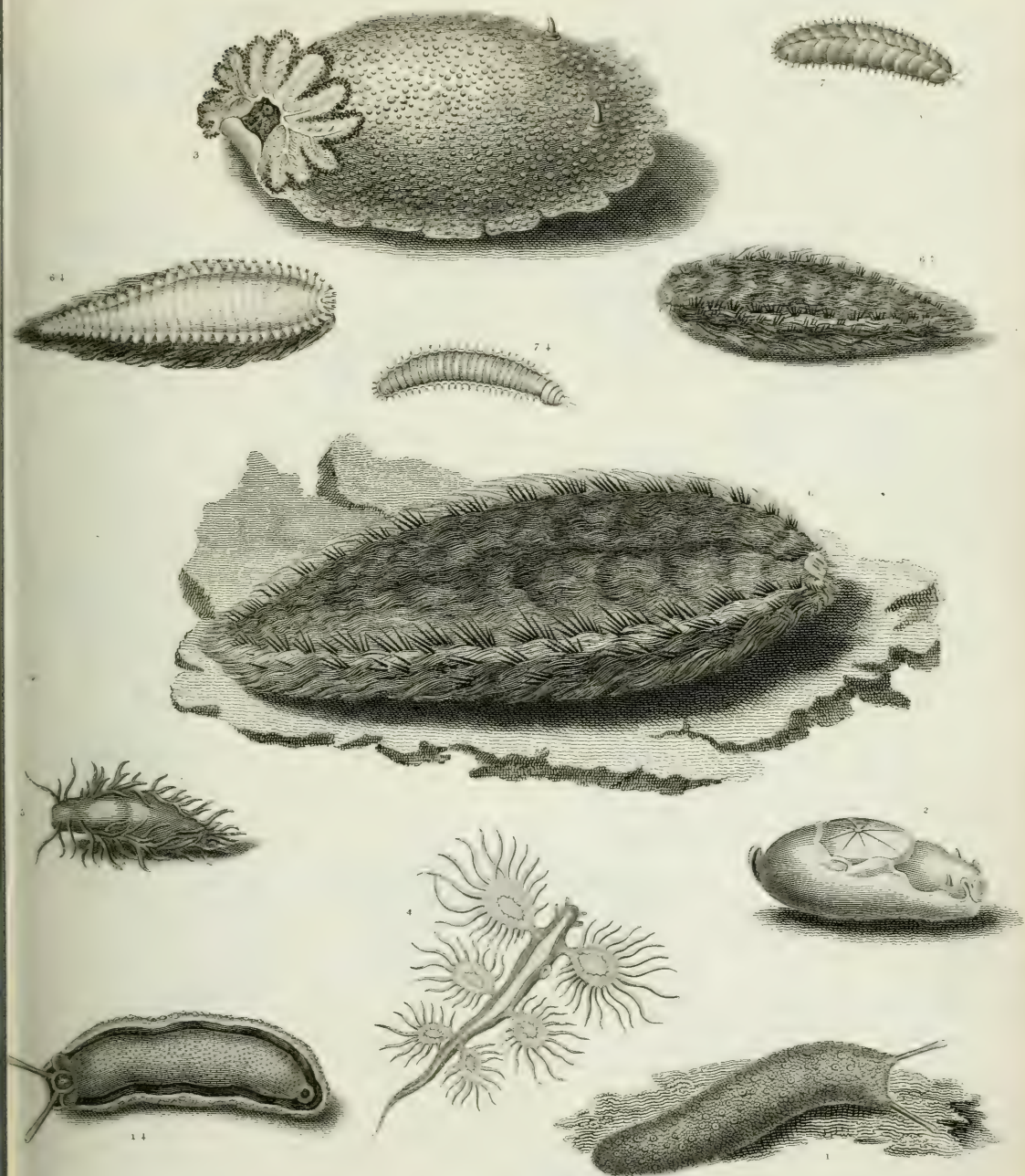
Lim. ater

Villosus









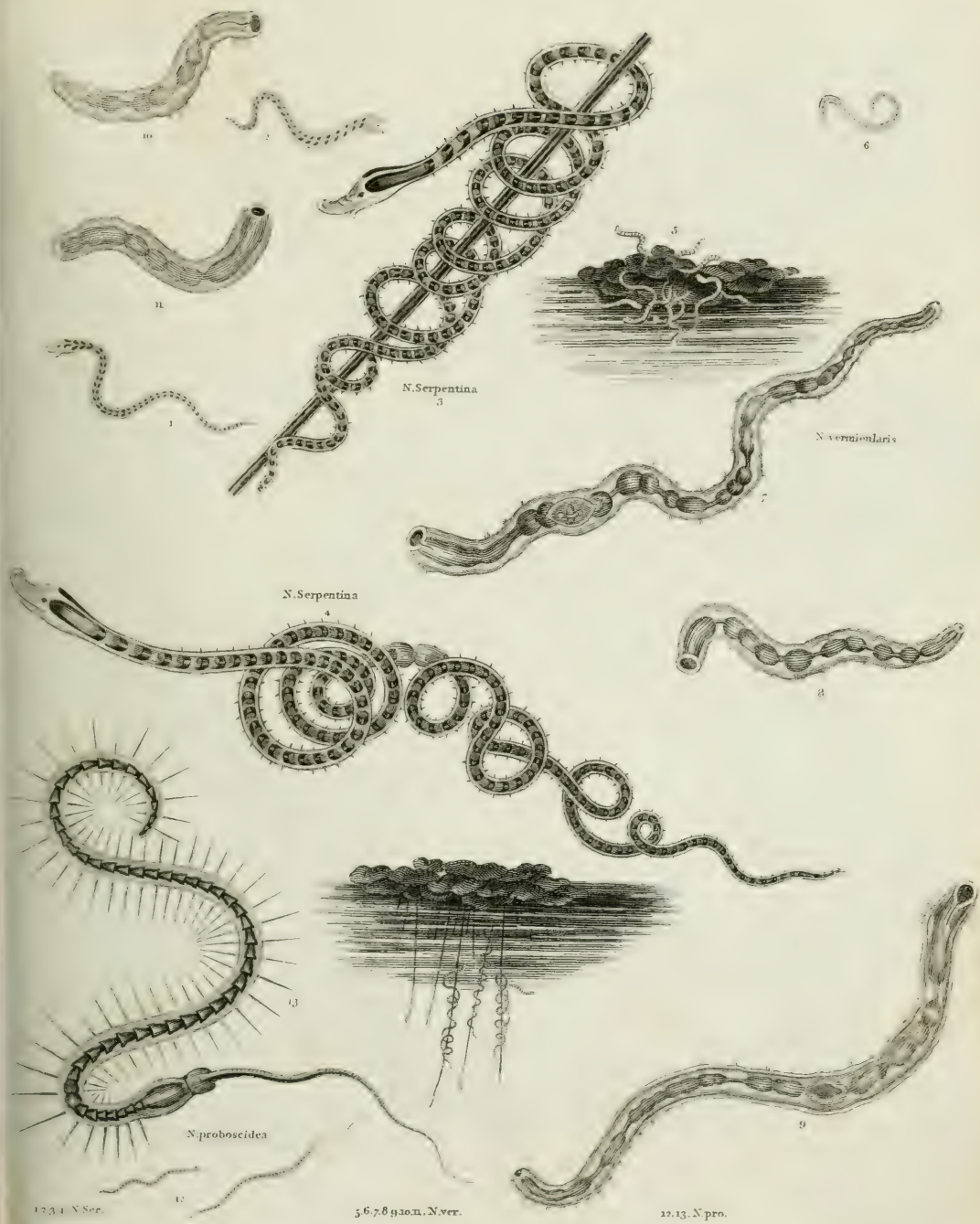
1. Otyphæ. 2. L. depilus. 3. Dargo. 4. D. radiata. 5. D. papillosa. 6. A. aculeata. 7. A. squamata

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

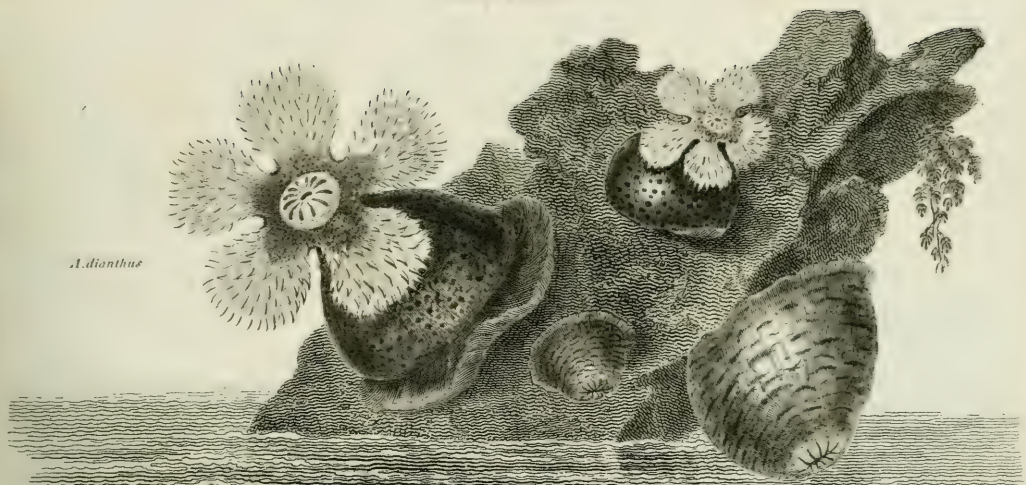
4 under surræce. 1 young.

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

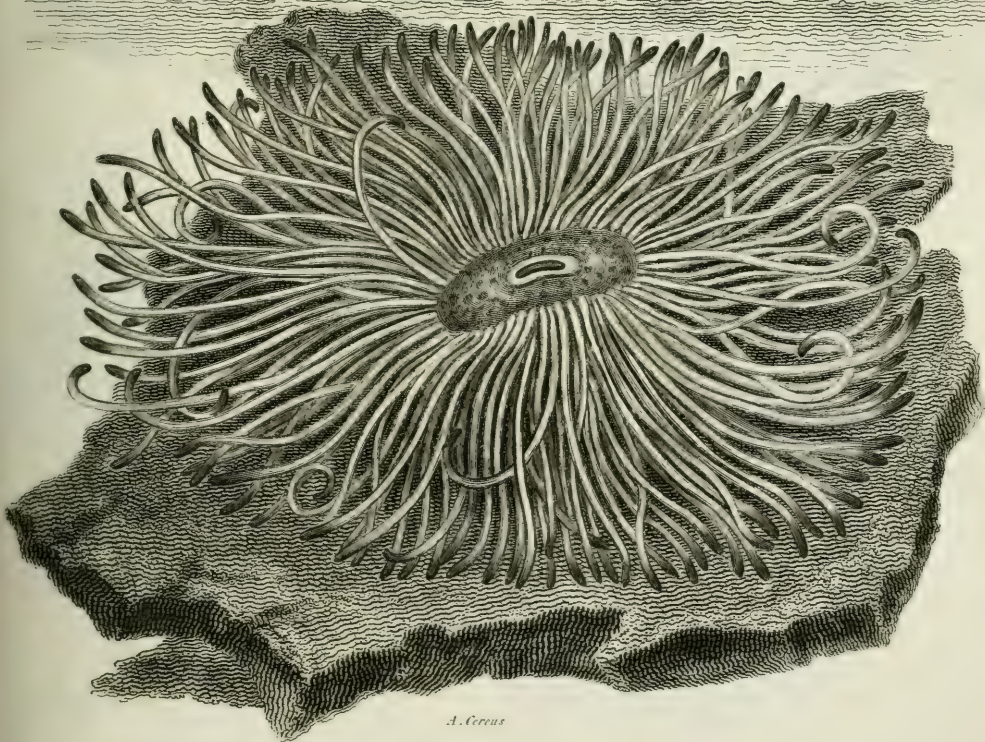








*A. dionthus*



*A. Cereus*

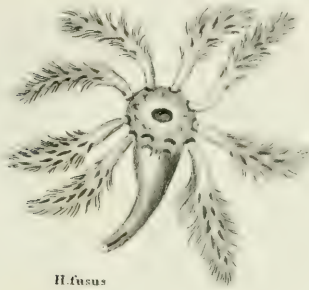


# ZOOLOGY.

Class VERMES - Order MOLLUSCA - GENUS HOLOTHURIA.



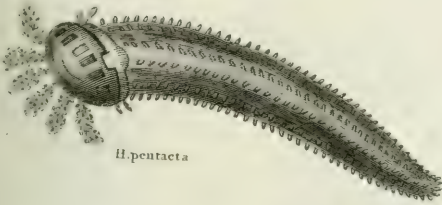
H. fusus



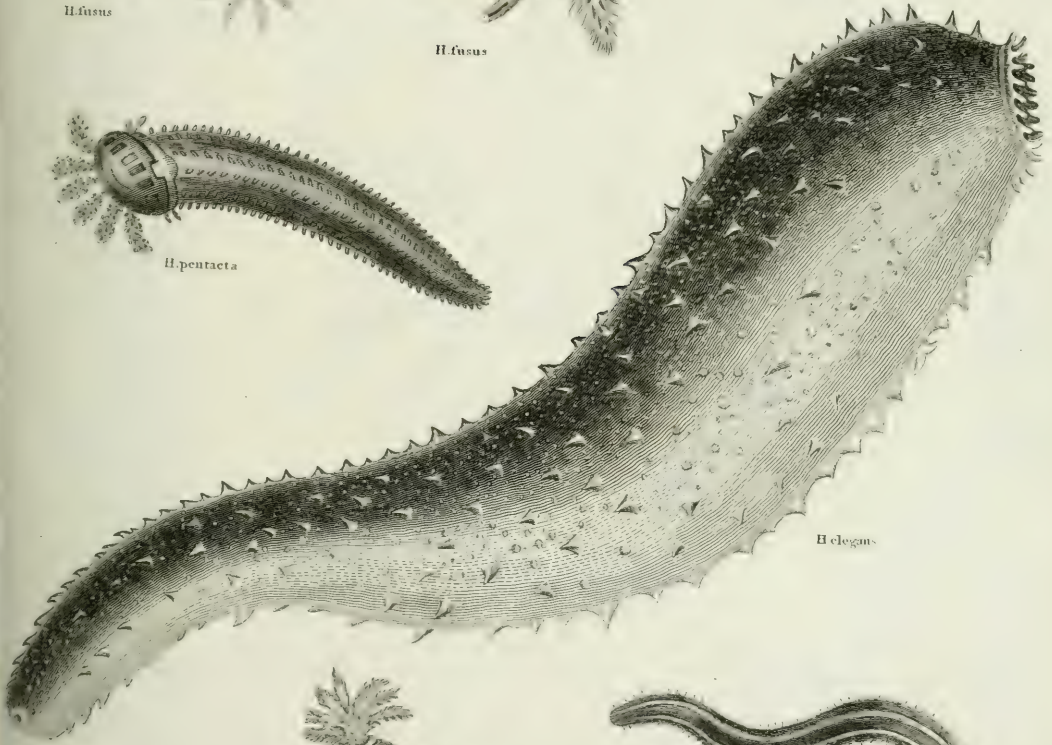
H. fusus



H. penicillus



H. pentacta



H. elegans



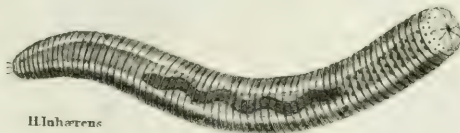
H. squamata  
with tentacula expanded



H. Inhaerens



H. squamata



H. Inhaerens



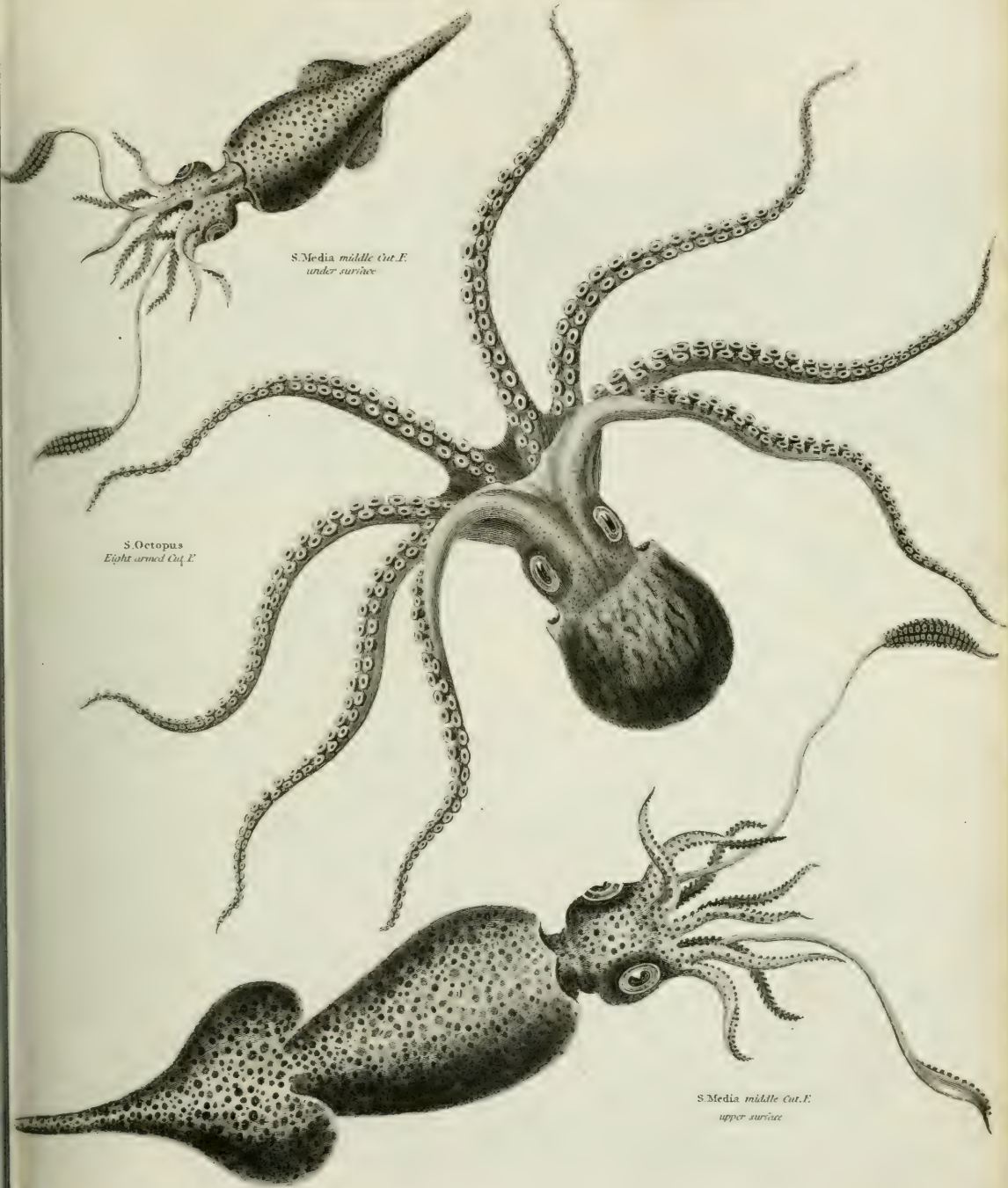
Under surface





Order Mollusc.

Genus Sepia...Cuttle-Fish



*S Media middle Cut.F.  
under surface*

*S Octopus  
Eight armed Cut.F.*

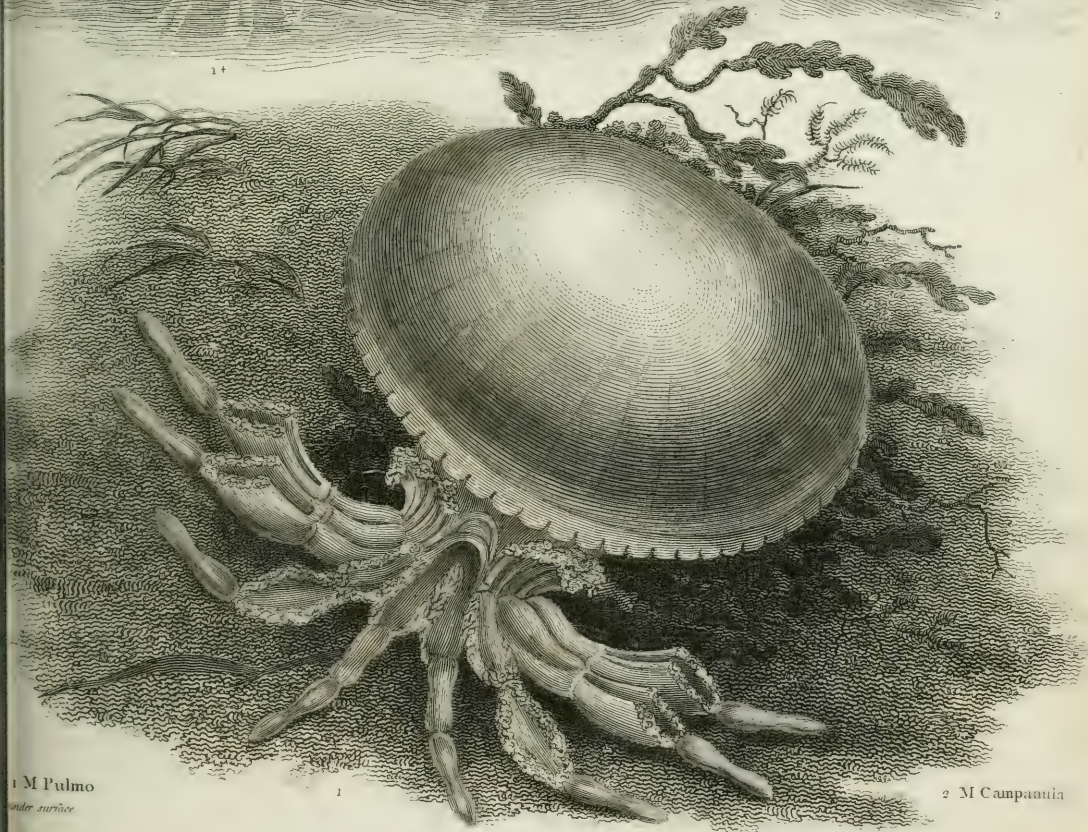
*S Media middle Cut.F.  
upper surface*



Order Mollusca Genus Medusa.



1.



1

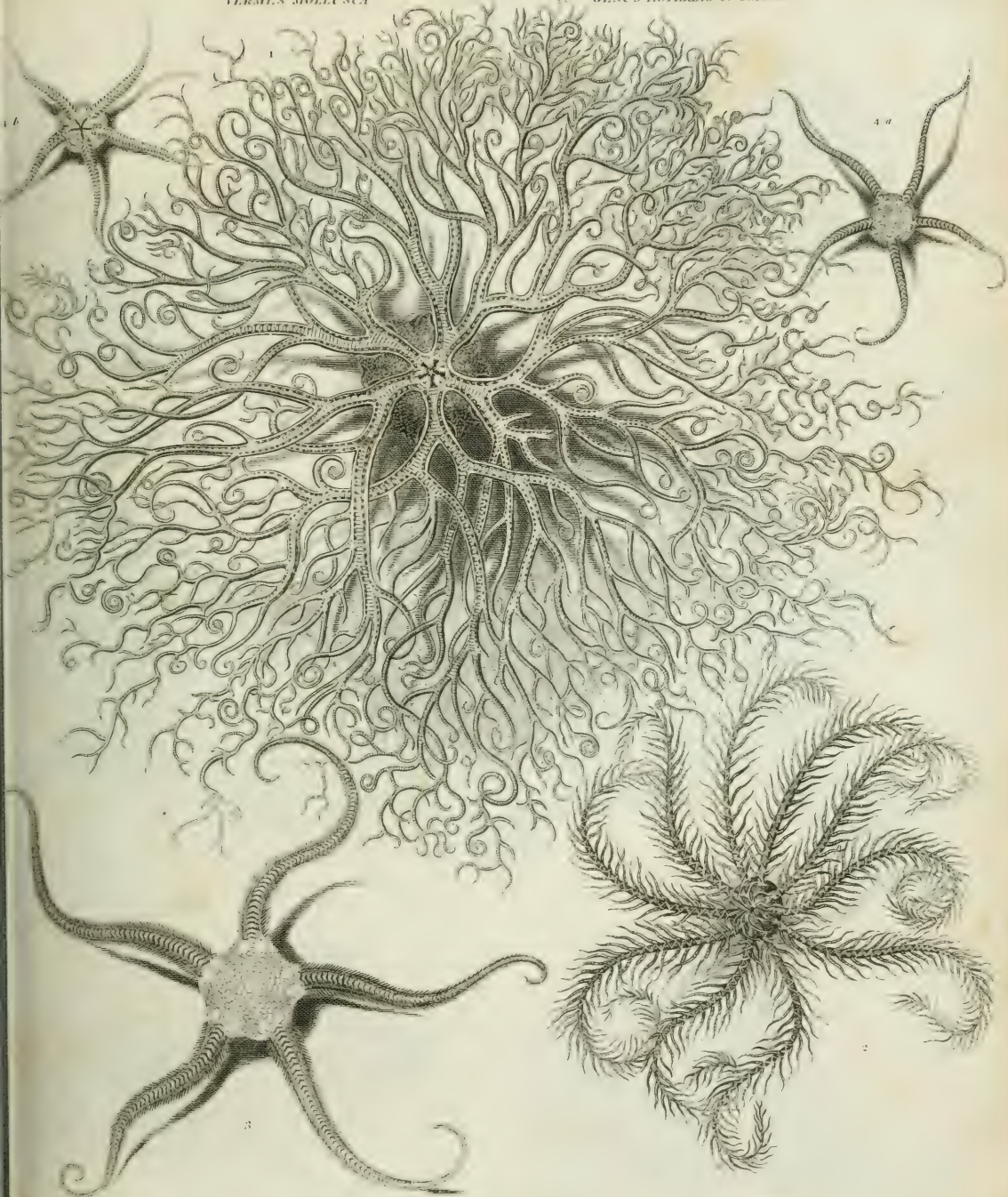
2 M Campanula

M Pulmo  
under surface



VERMES MOLLUSCA

GENUS ASTERIAS or Sea Star



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

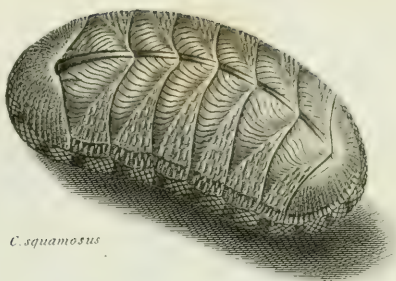
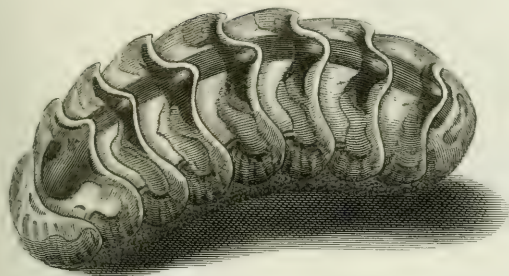
Allen &

Published at the Art direct May 1<sup>st</sup> 1841. by Longman Hurd, Rose, Orms & Brown, Paternoster Row.



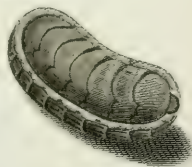
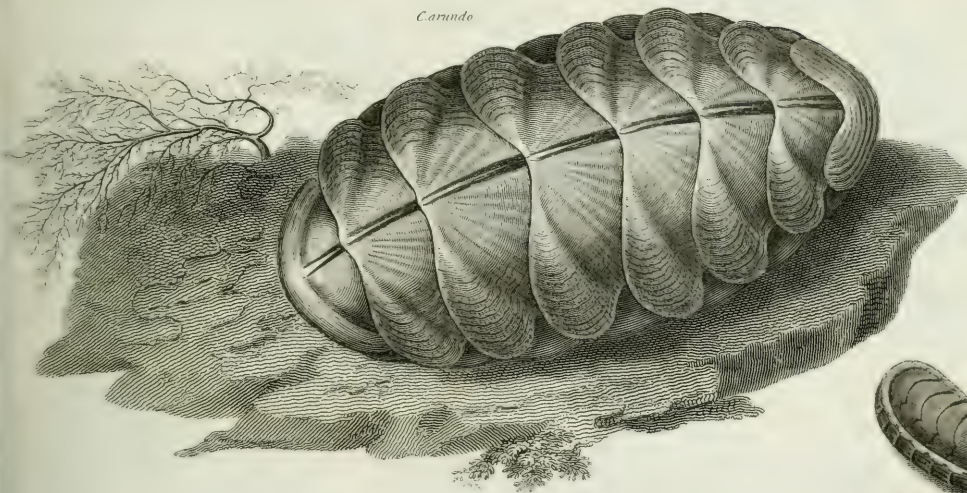
GENUS *CHITON*

*C. aculeatus*



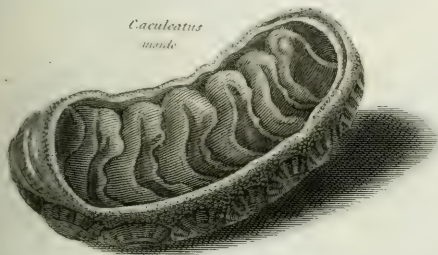
*C. squamosus*

*Carando*

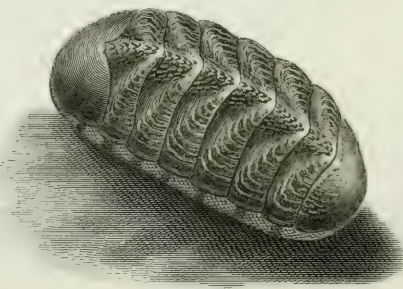


*C. olivaceus*  
*more*

*Caculeatus*  
*more*



*C. olivaceus*









*L. anserina*



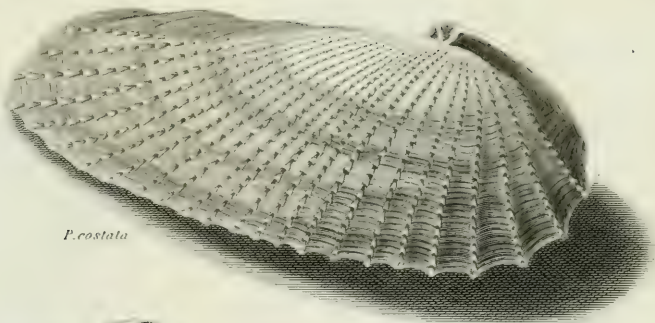
*L. anatica*

*Reproduced in the book 'Conchology of the Genus Lepis' by the author of this work.*

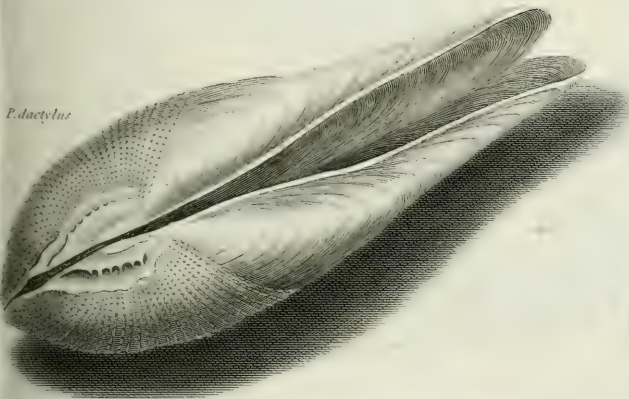




*P. striata*



*P. costata*



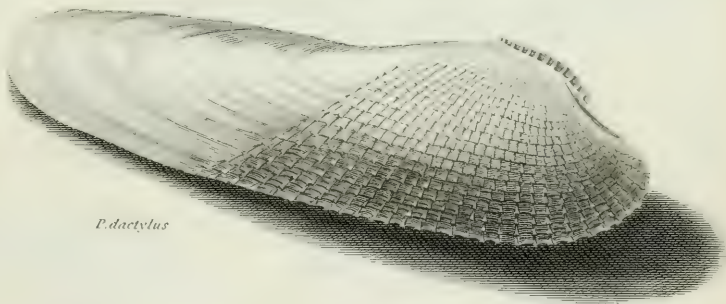
*P. dactylus*



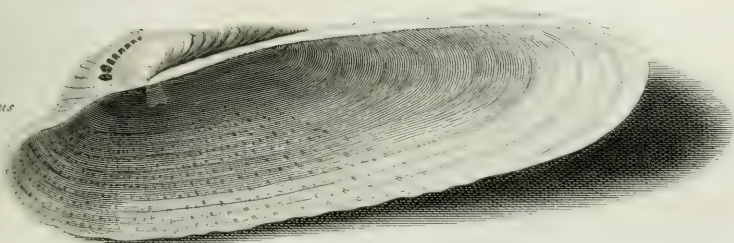
*P. striata*



*P. striata*

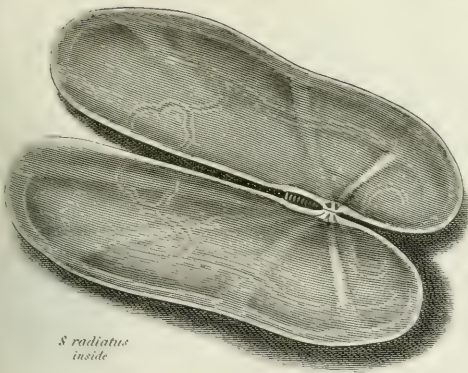


*P. dactylus*



*P. dactylus*





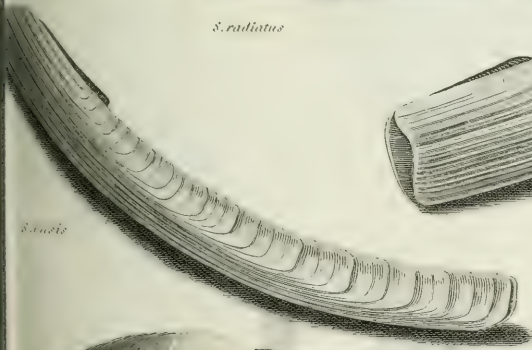
*S. radiatus*  
inside



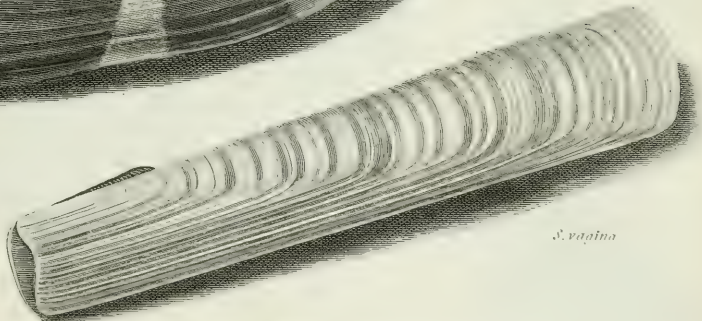
*S. stipitatus*



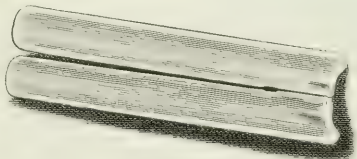
*S. radiatus*



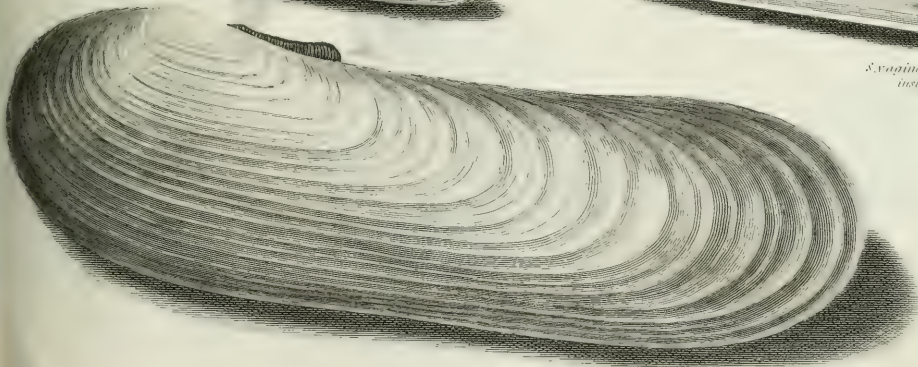
*S. acie*



*S. vagina*



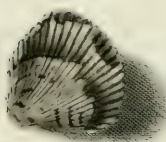
*S. vagina* young  
inside



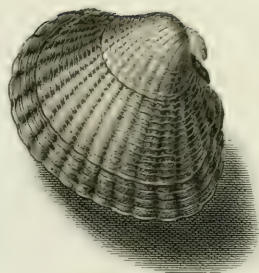
*Engraved by J. G. Thompson from the collection of the Smithsonian Institution.*



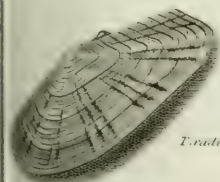
GENUS TELLINA — GENUS CARDIUM.



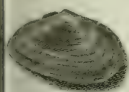
*Tellina*



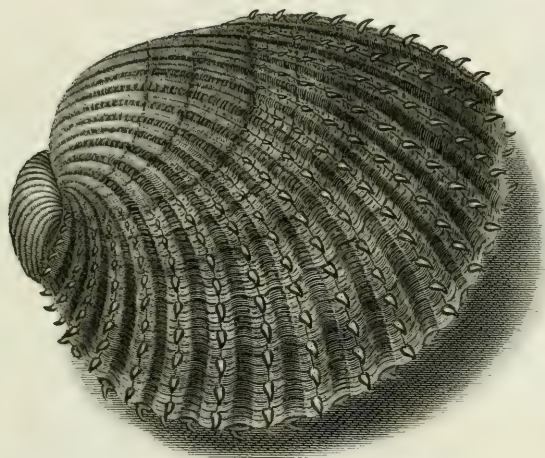
*T. edule var.*



*T. radiata*



*T. fistulata*  
*left side.*



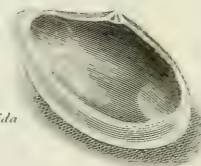
*Cardium aculeatum*



*Tellina*  
*bimaculata*



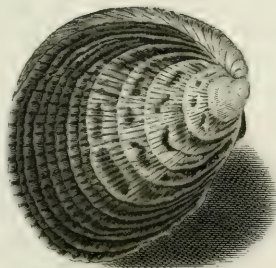
*T. radiata*  
*inside.*



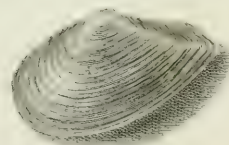
*T. squallida*  
*inside.*



*T. fistulata*  
*right side.*



*C. laevigatum*

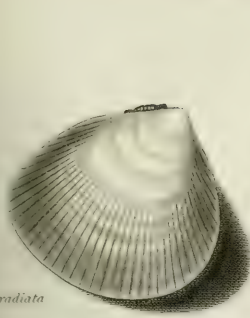


*T. squallida*

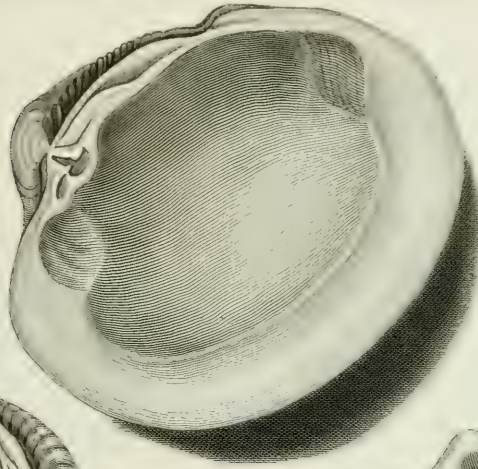




GENUS MYA. G. MICTRA. G. CHAMA. G. VENU'S. G. MYTILUS. G. DONAX.



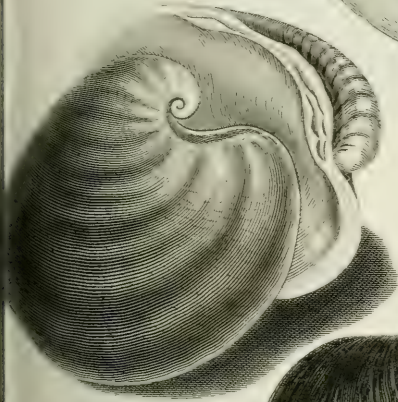
*Mya radiata*



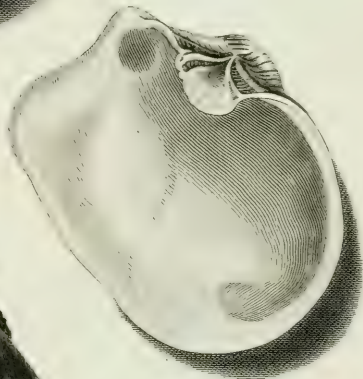
*V. Islandica*



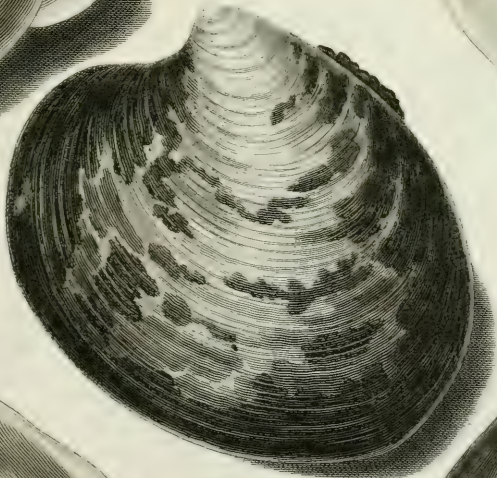
*D. truncatus*



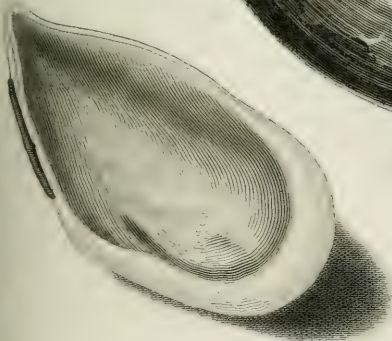
*Chama Cor*



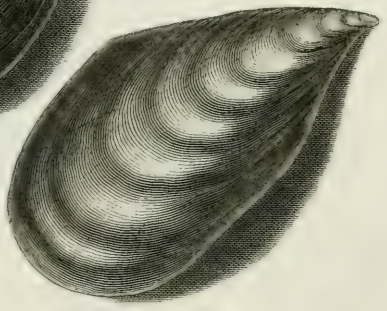
*Mya truncata*



*V. Islandica*



*Mya retusa  
var. pacificana*

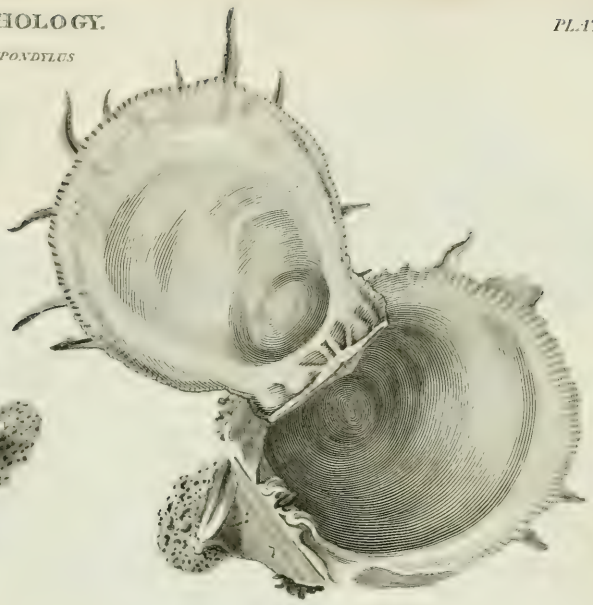




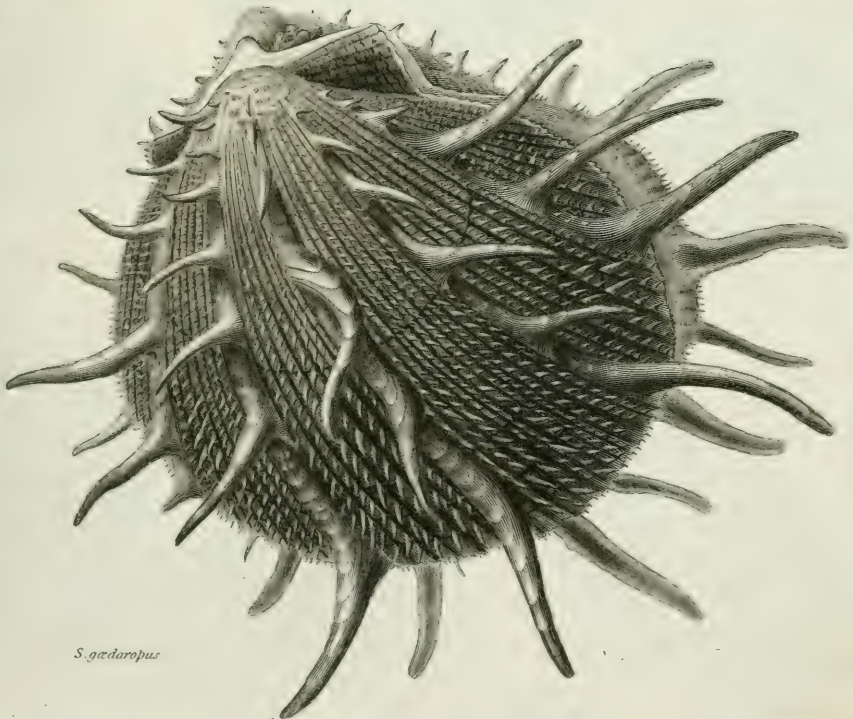
Genus SPONDYLUS



*S. gadaropus* var.



*S. gadaropus* var.



*S. gadaropus*



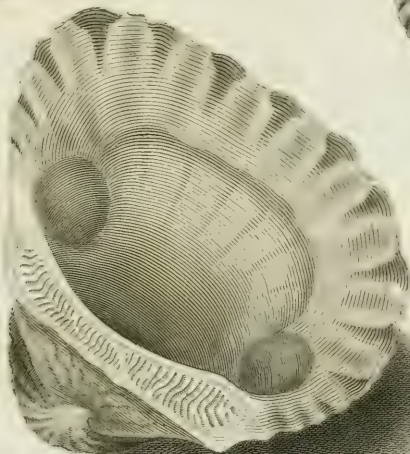
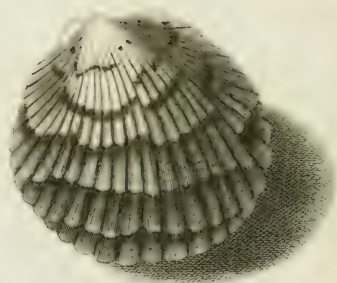
CONCHOLOGY.

Genus *Arca*.

*A. tortuosa*  
*usule*



*A. nebulosa*



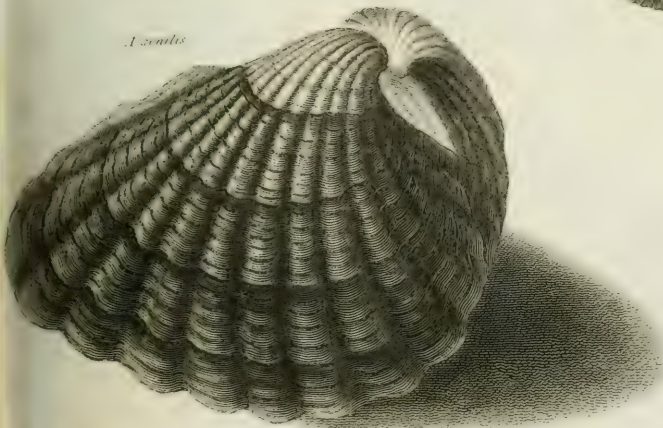
*A. usule*

*A. nodulosa*  
*usule*

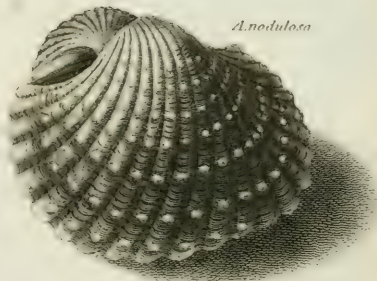


*A. tortuosa*

*A. zentli*

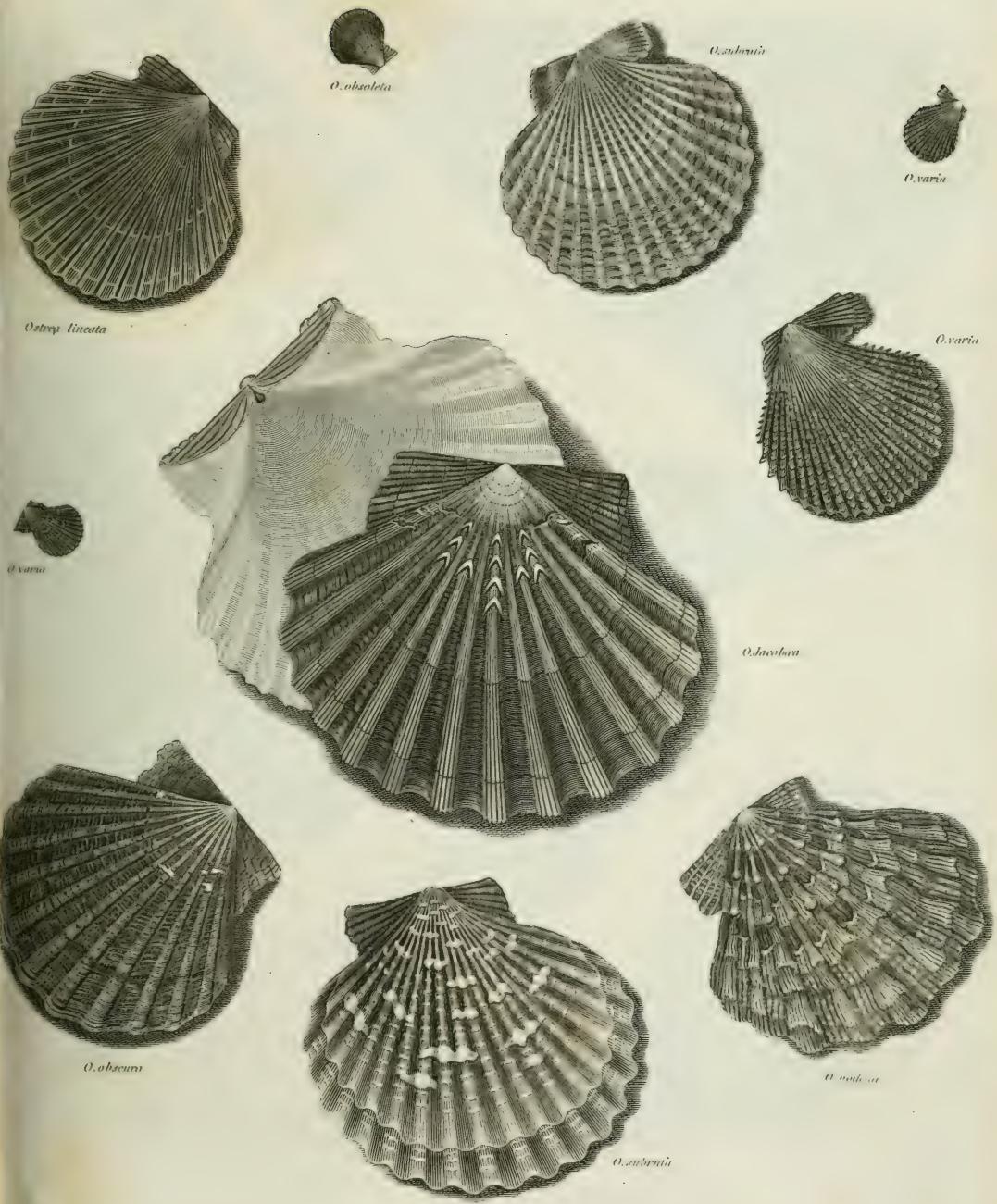


*A. nodulosa*





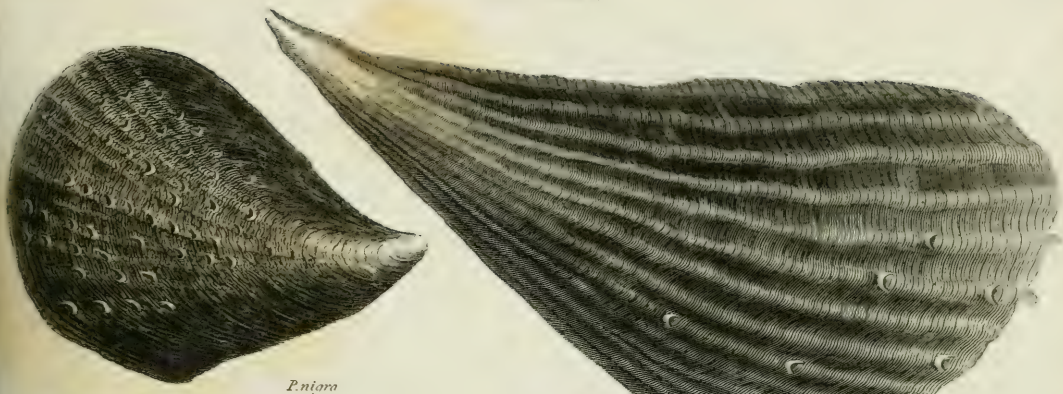
GENUS OSTREA.





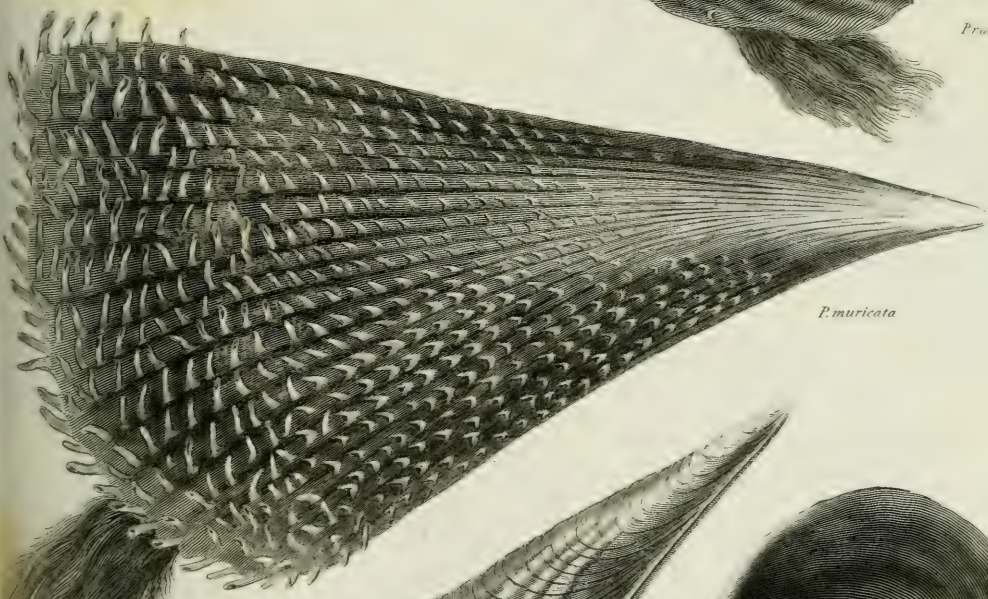


Genus PINNA.

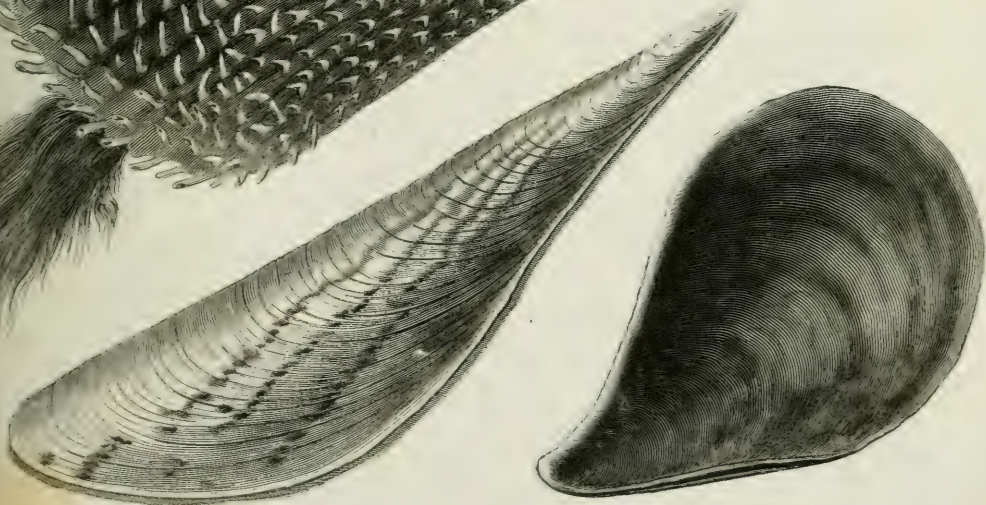


*Pniom*

*Probra*



*Pmuricata*



*P. fragilis*

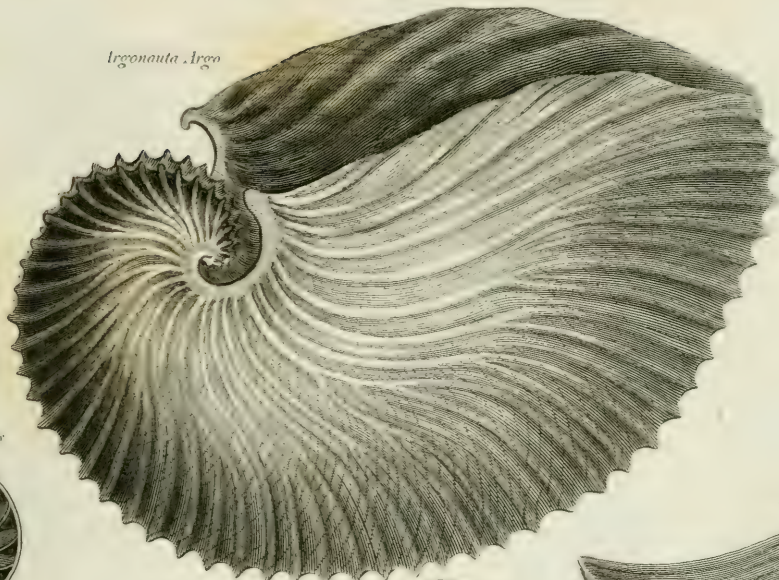
*P. nigra mada*



# CONCHOLOGY.

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

*Argonauta Argo*



*Section of Nautilus*



*Argonauta Vitrus*



*Nautilus  
Pompius*



*Nautilus Pompeius*

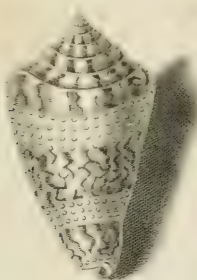


CONCHOLOGY.

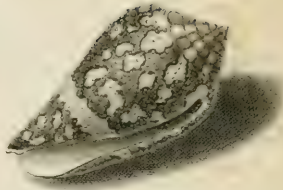
GENUS BULLA. G. CONUS. G. TORO. G. HELIX. G. FERETI.



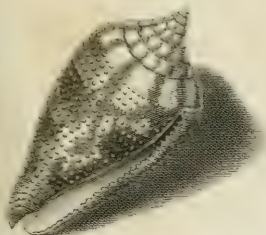
*B. ligularia*



*C. Ammiralis* var  
Banded Cedo nulli Cone



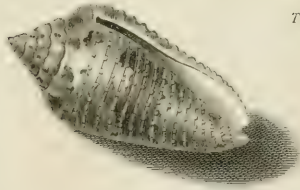
*C. Ammiralis* var  
Sclaa C.n.C



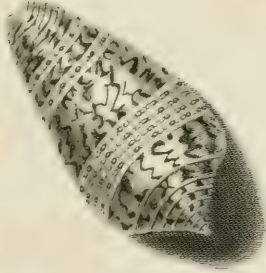
*C. Ammiralis* var  
Curacao C.n.C.



*T. trilineatus*



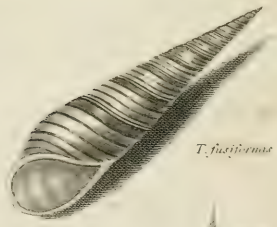
*C. Ammiralis* var  
Southern C.n.C



*C. Ammiralis* var  
Marbled C.n.C



*B. ligularia*



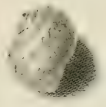
*T. fusiformis*



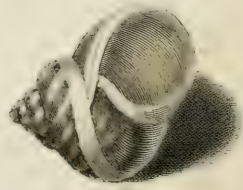
*H. eximius*



*N. exima*



*H. eximius*







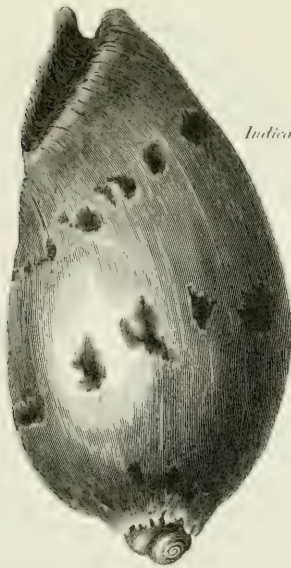




Order Volutæ.



*Papalis*



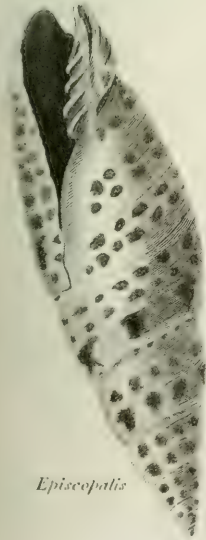
*Indica*



*Epalis*



*Oliva*



*Episcopalis*



*Tornatilis*



*Aethiopica*

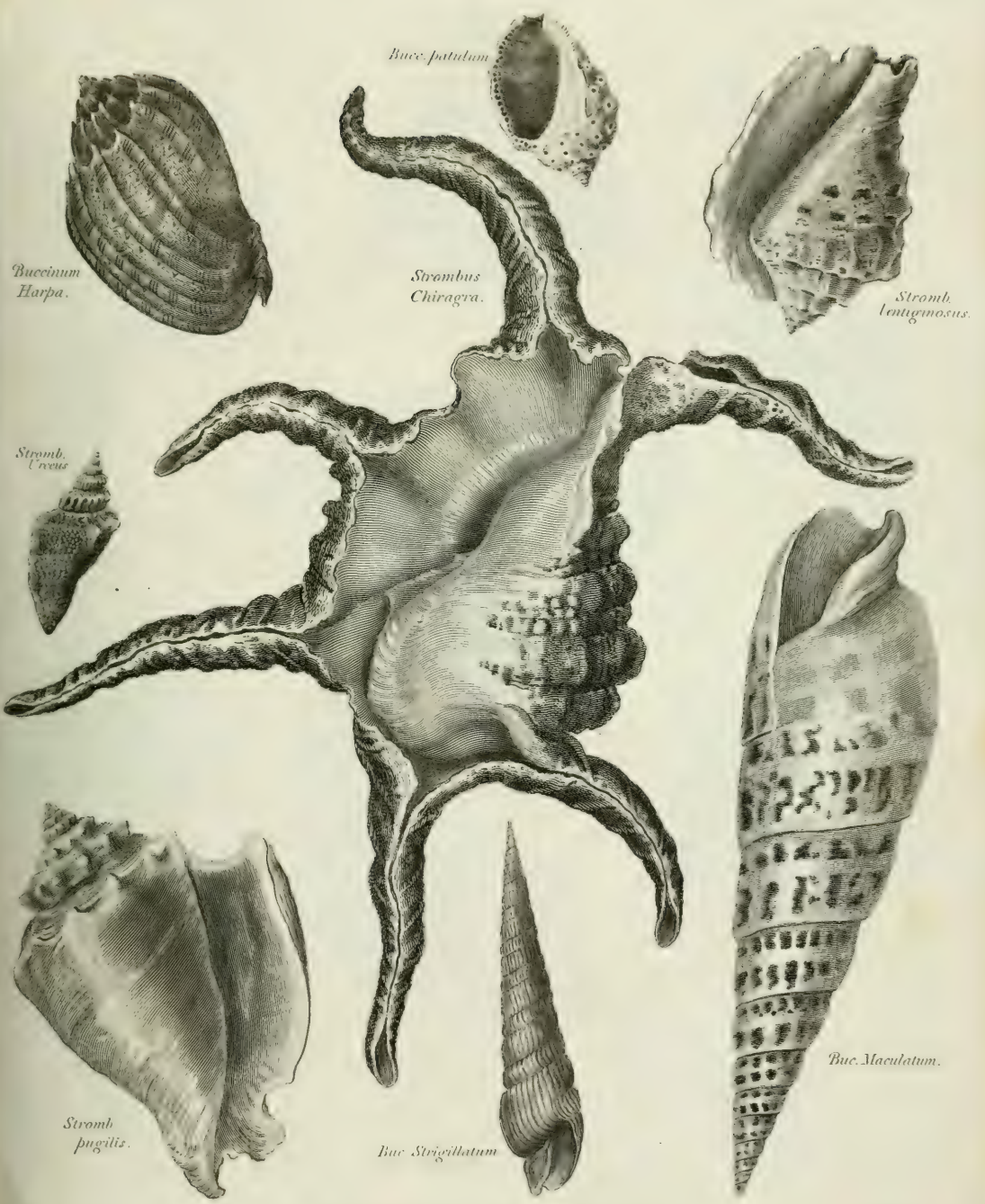
*Pallida*



*Porphyria*



Order Voluta

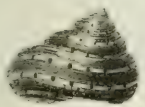
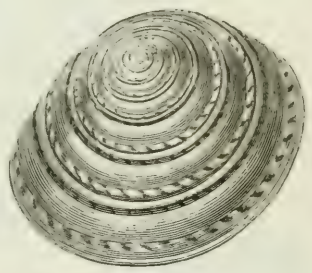
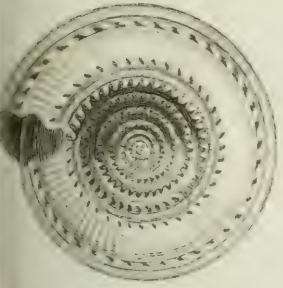
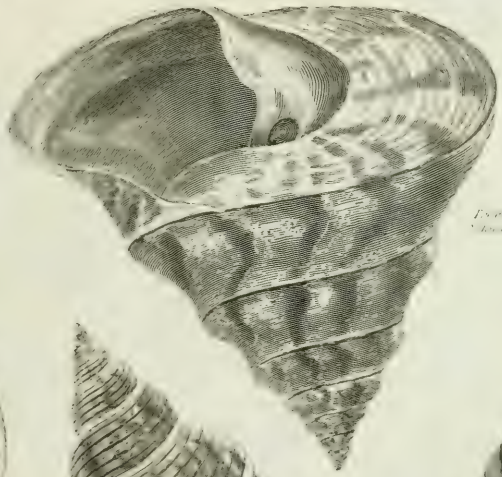
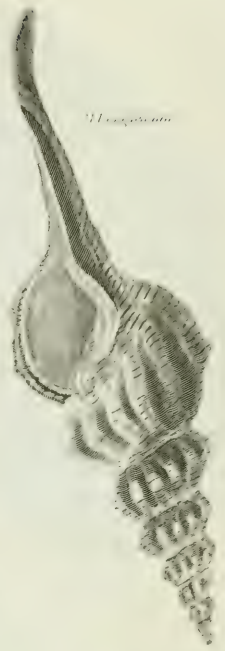
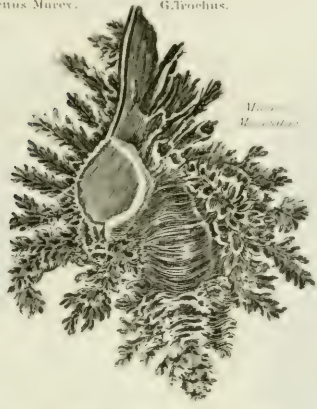




ORDER UNIVOLVE.

Genus Murex.

G. Trochus.



*Murex*

*Murex*  
*trochus*

*Murex*  
*trochus*

*Murex*  
*trochus*

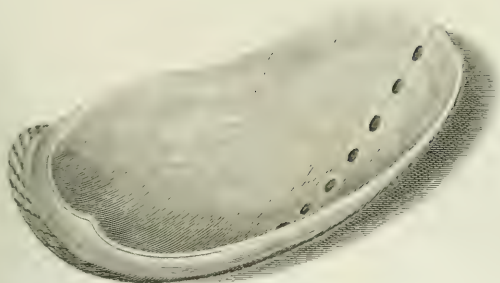
*Murex*  
*trochus*

*Murex*  
*trochus*

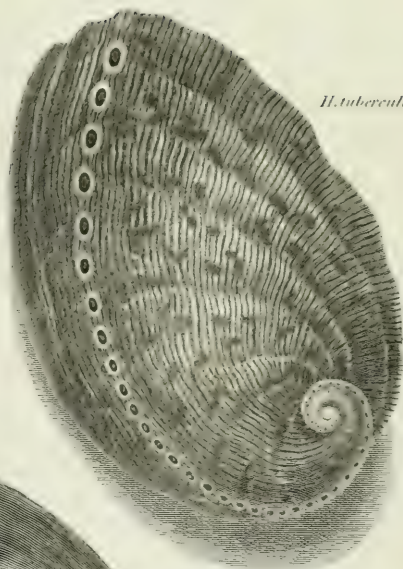
*Murex*  
*trochus*

*Murex*  
*trochus*





*H. asinum*



*H. tuberculata*

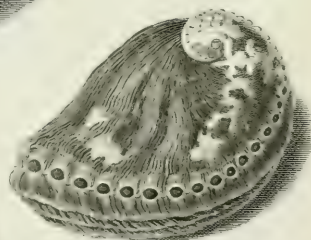
*H. levigata*



*H. asinum*

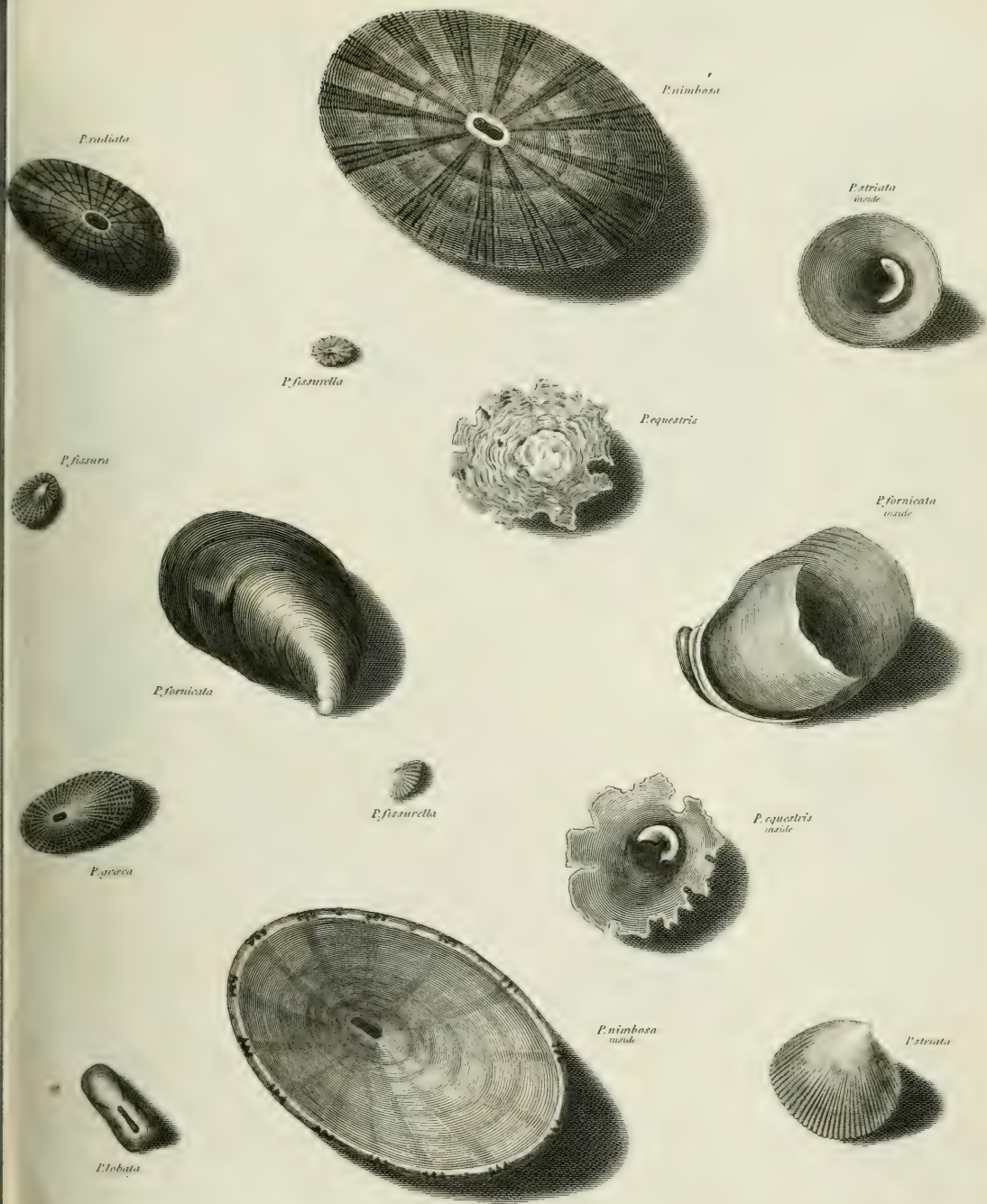


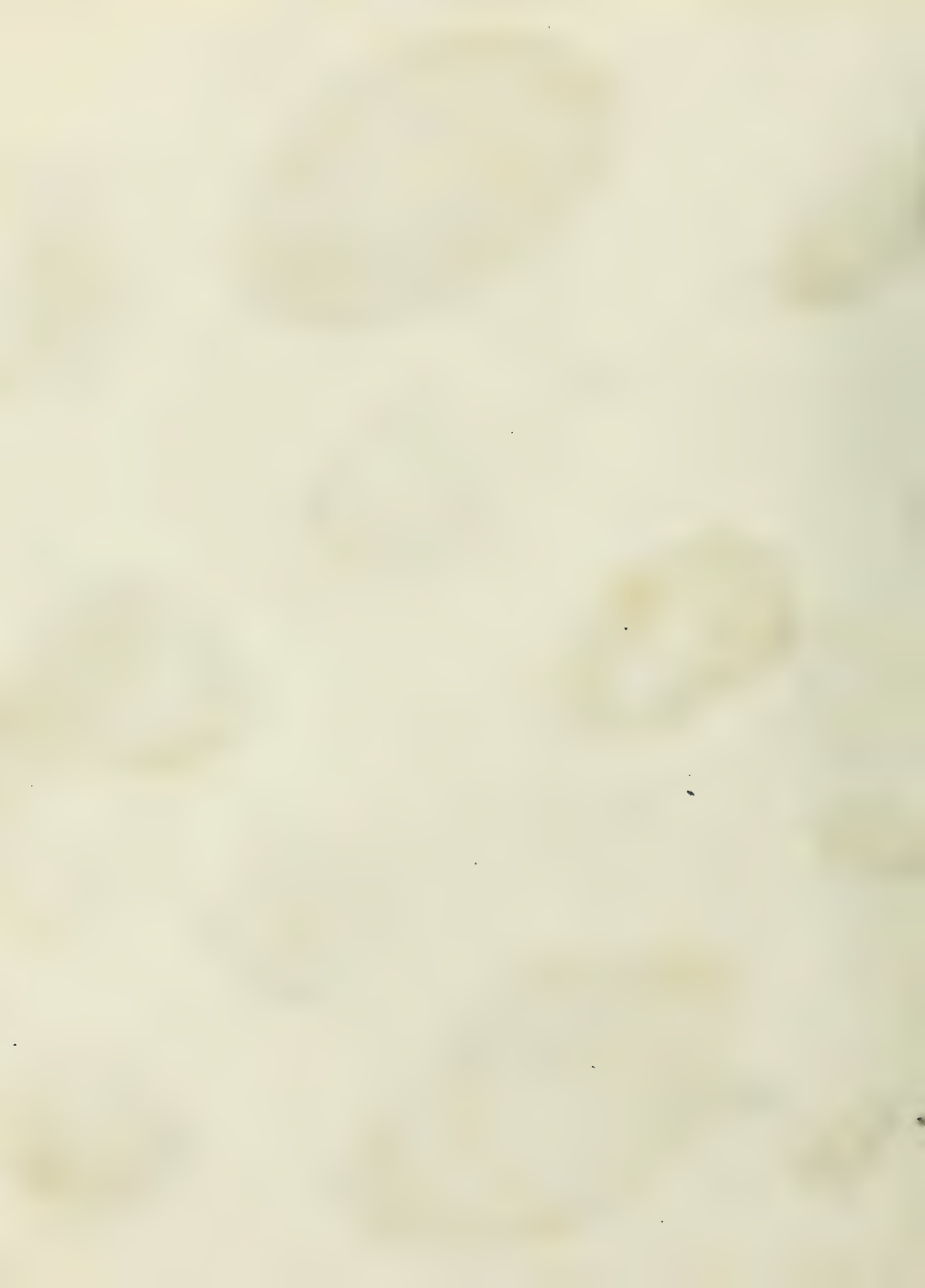
*H. spadicea*









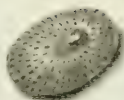


GENUS *PITELLA*

*P. sagittata*



*P. ovata*



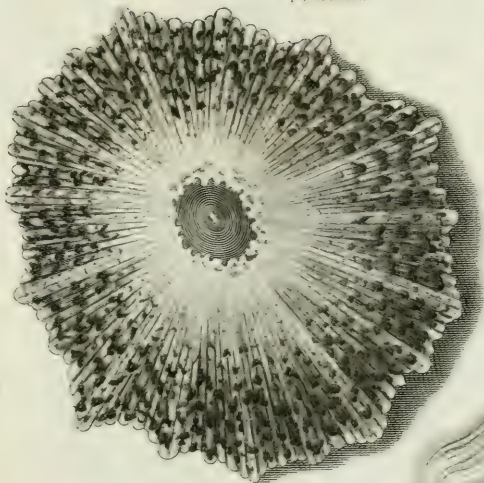
*P. radiata*



*P. auricula*



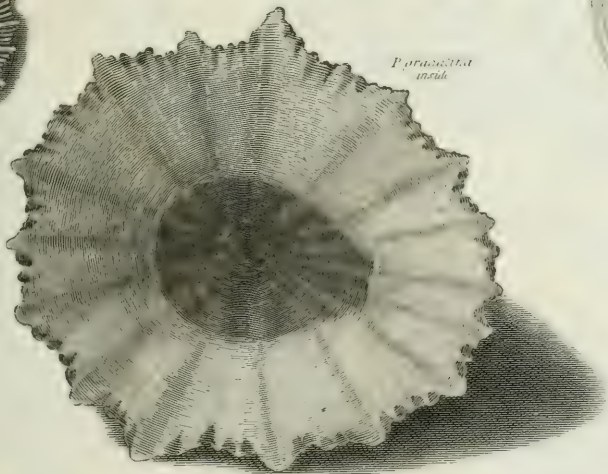
*P. auricula* var.



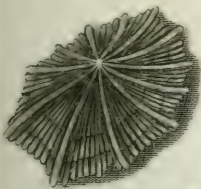
*P. anatina*



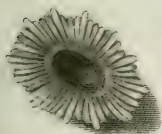
*P. parasittata*  
*incol.*



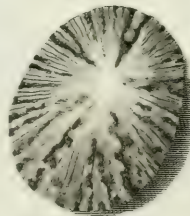
*P. auricula*



*P. auricula*



*P. striolata*



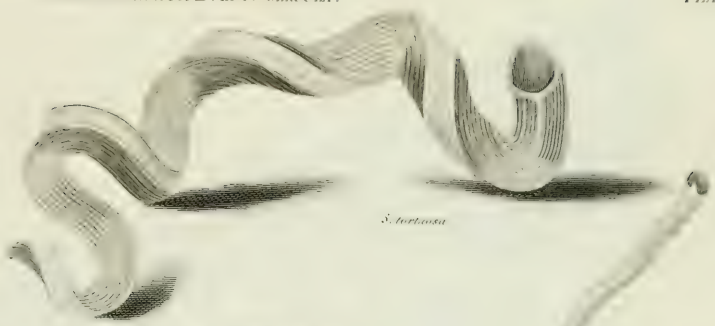


CONCHOLOGY

GENUS DENTILUM - GENUS SERPULA.



*S. reticulata*



*S. tortuosa*



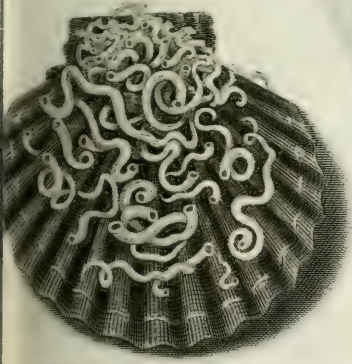
*Serpula peni*



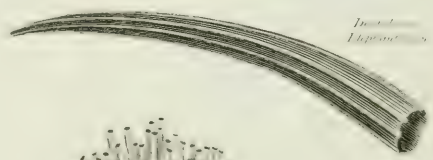
*Serpula*



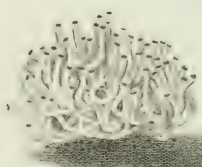
*Serpula*



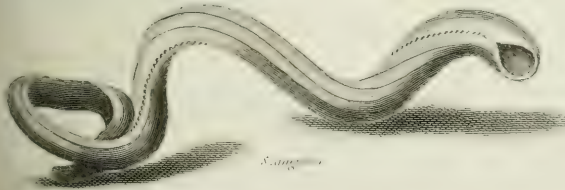
*Serpula*



*Serpula*



*Serpula*

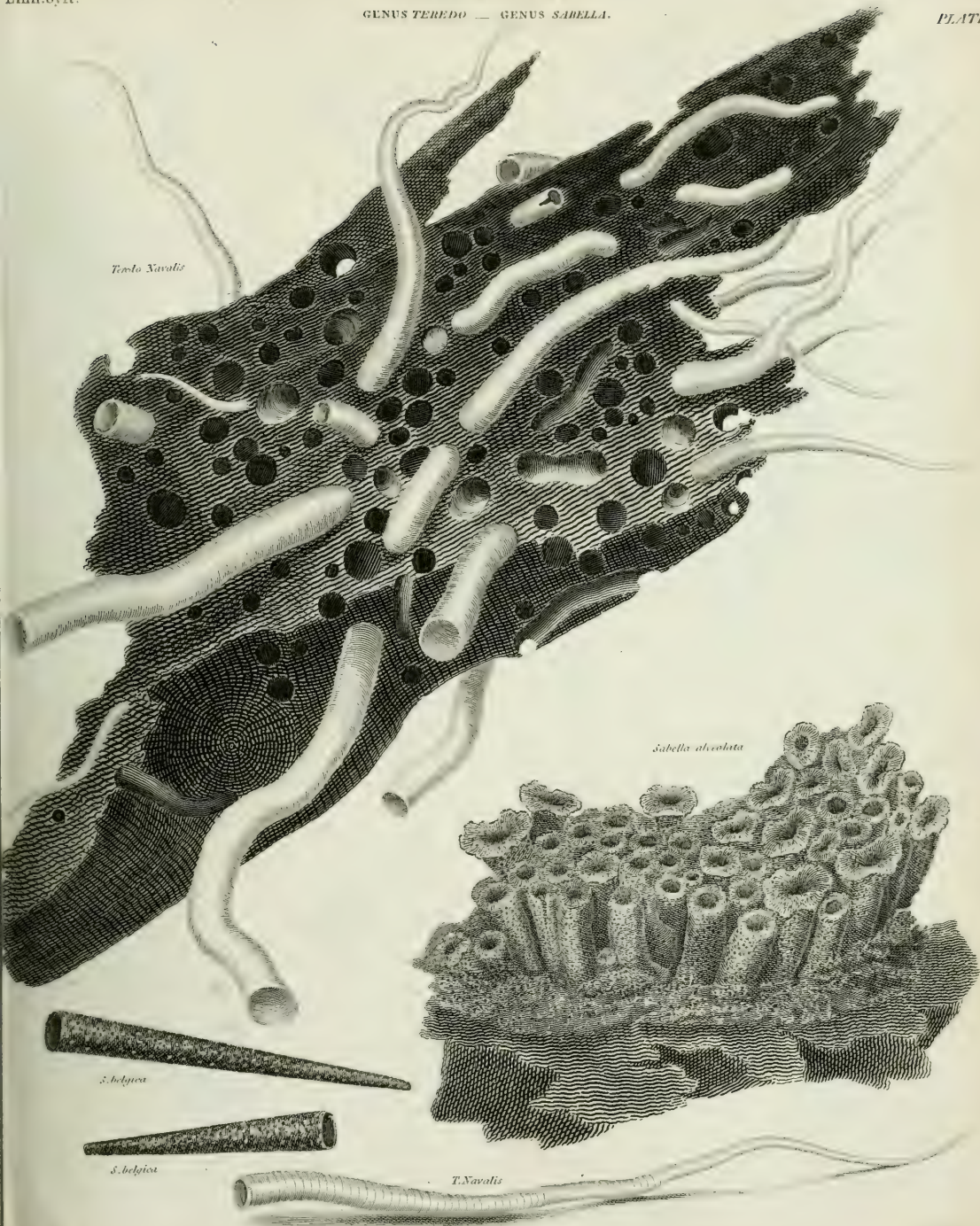


*Serpula*



*Serpula*





*Teredo Navalis*

*Sabella obscolata*

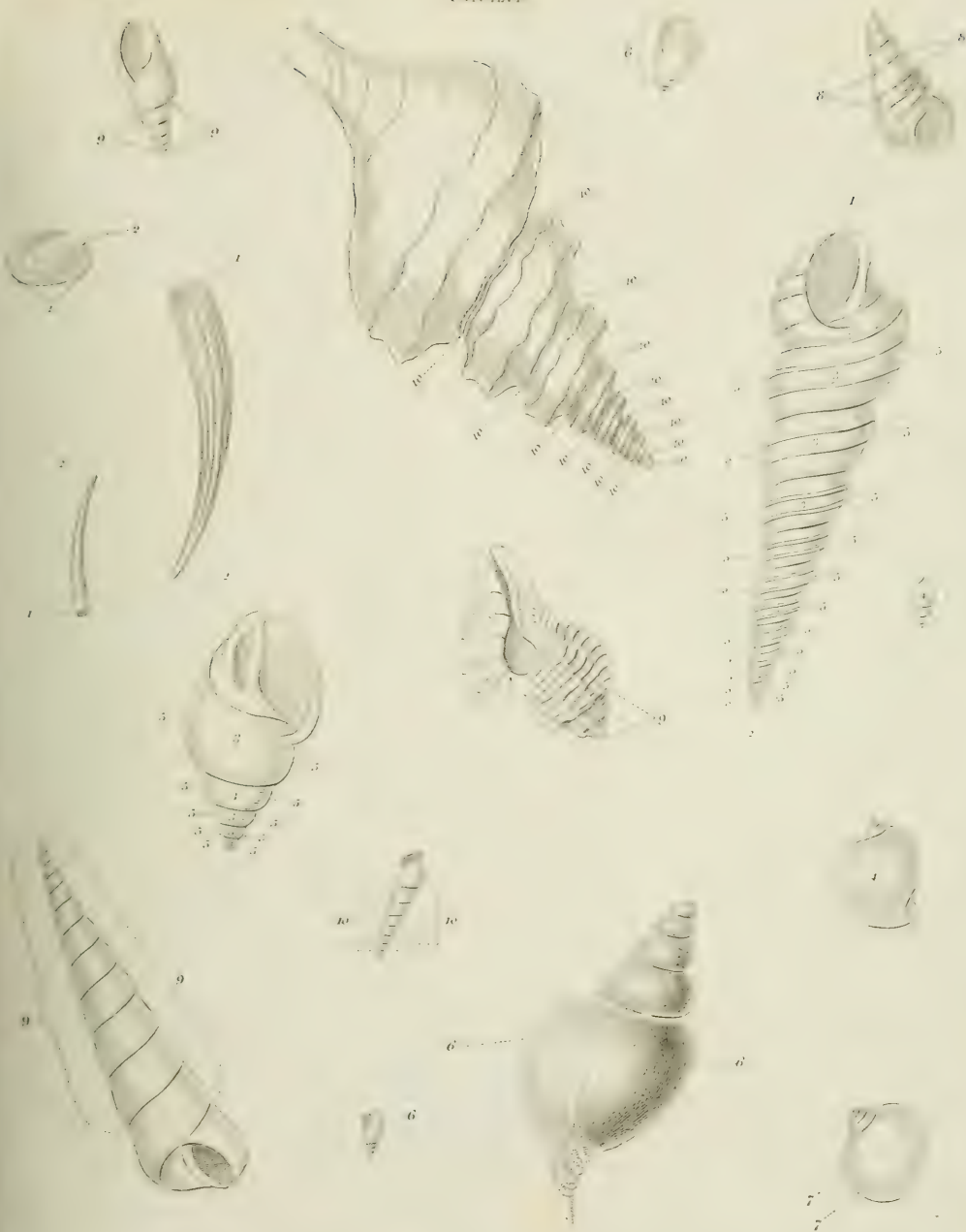
*S. belgica*

*S. belgica*

*T. Navalis*

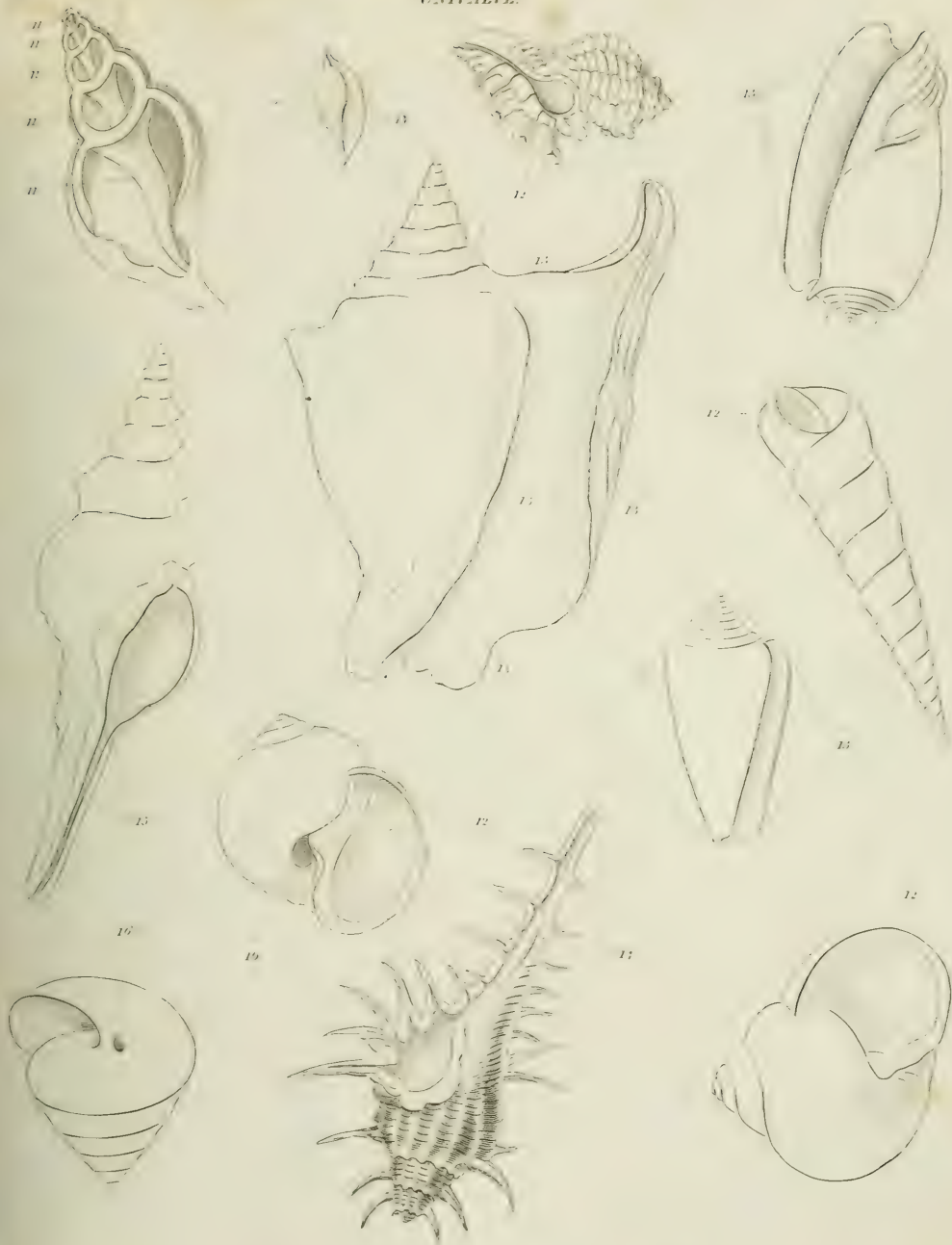






1. Base. 2. Apex. 3. Front. 4. Back. 5. Sides. 6. Body. 7. Belly. 8. Whorl. 9. Spire. 10. Suture of the Spire or Whorl.

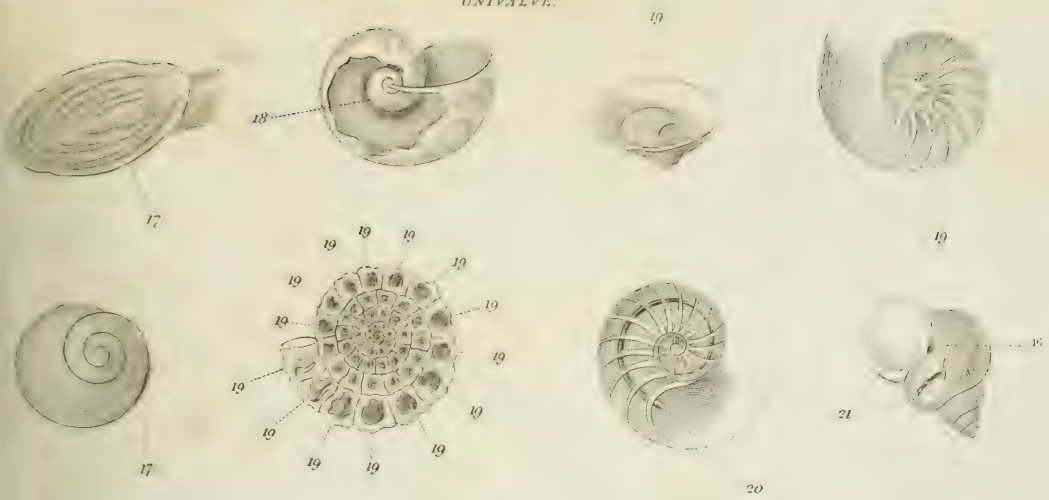




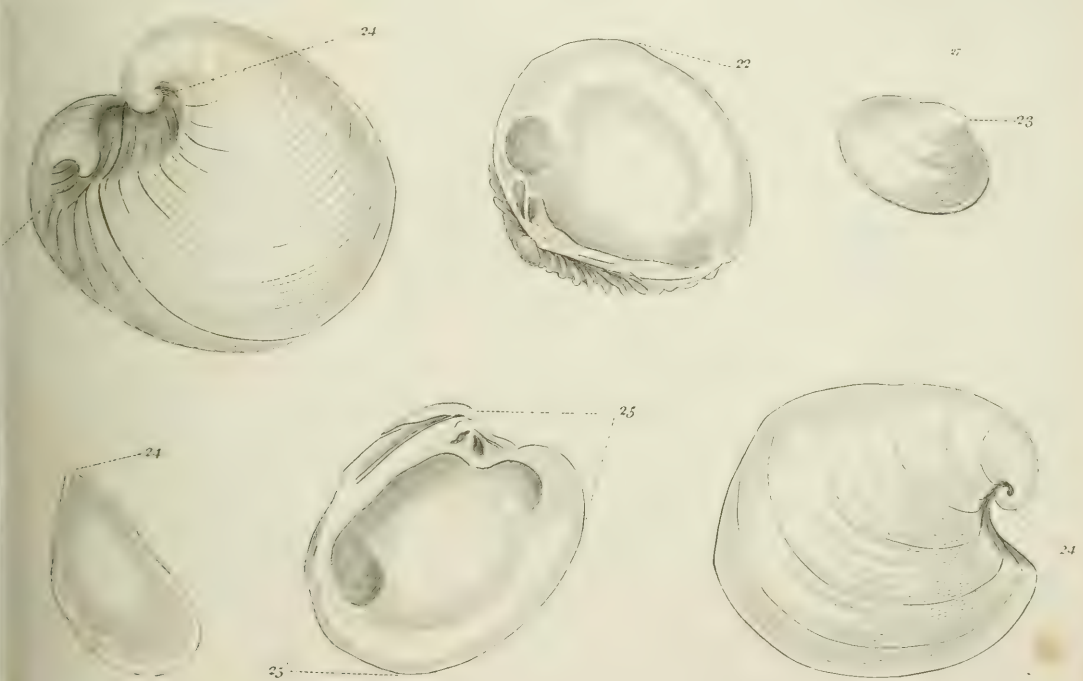
11. Volar or Columella. 12. Aperture. 13. Lip. 14. Beak. 15. Canal. 16. Umbilicus.



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.





SyR.



MULTIVALVES



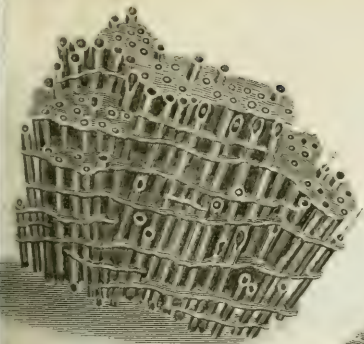
34.Length and Breadth - 35.Inside - 36.Hinge - 37.Cicatrix - 38.Byssus - 39.Base. 40.Ligament - 41.Operculum.

Published at the New Street Jan 27 1850 by Longman Hurst, Rods & Orme Paternoster Row.



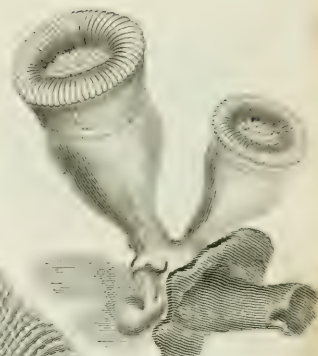
# ZOOPHYTES.

GENUS *TUBIPORA*—*G. MADREPORA*.



*Tubipora musica*.

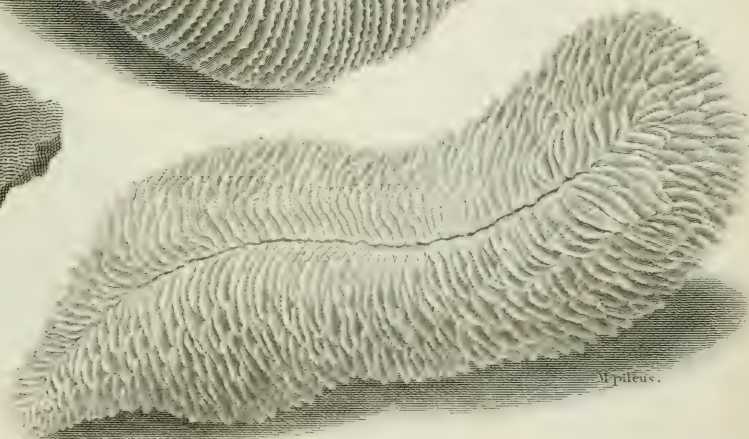
*M. angites*.



*Madrepora Agathus*.



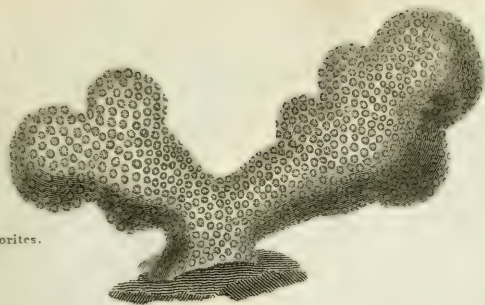
*M. foliaceus*.



*M. pileus*.



M.porites.



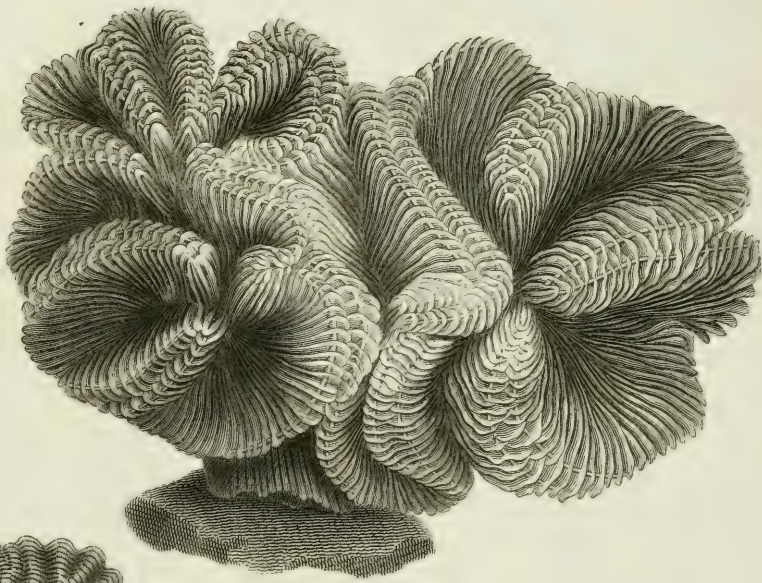
M.ananas.



Mareolata.



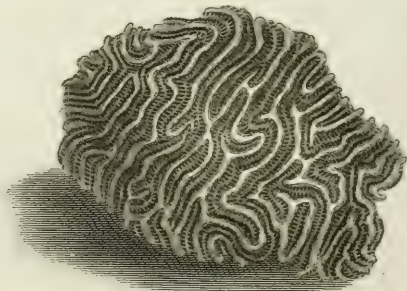
Madrepora  
grosa.



M.labyrinthica.



M.phrygia.





GENUS *ISIS* — GENUS *ANTIPATHES*.



I *Coccinea*.



I. *Happuis*



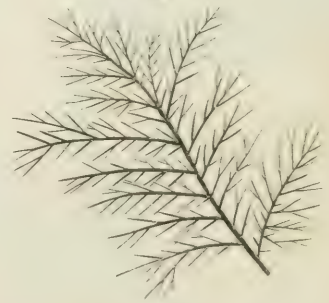
A. *Subpinnata*



*antipathes*



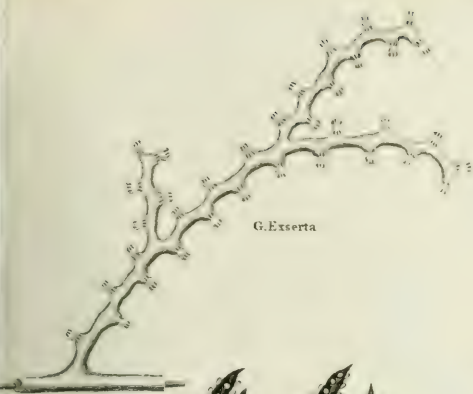
*antipathes*



A. *Micropheila*



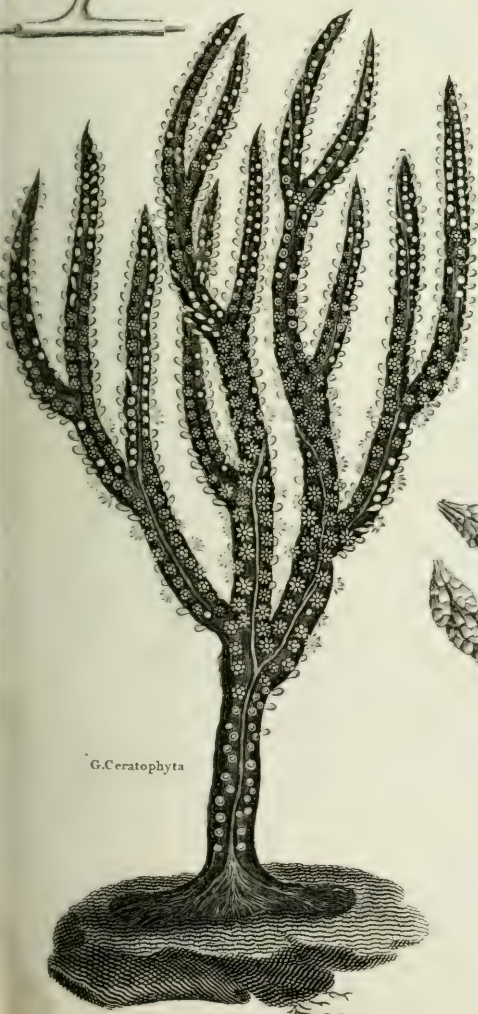




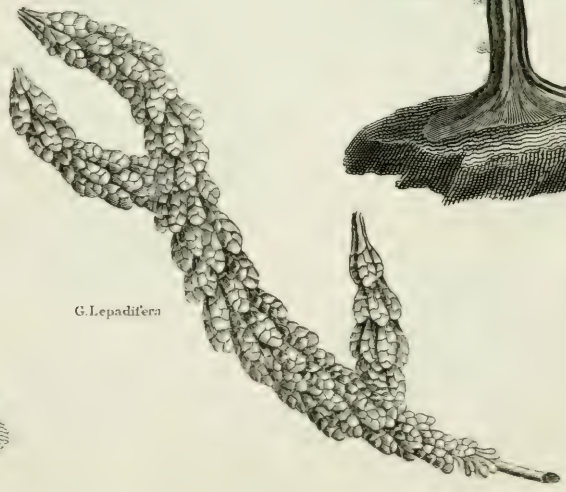
G. Exserta



G. Americana



G. Ceratophyta



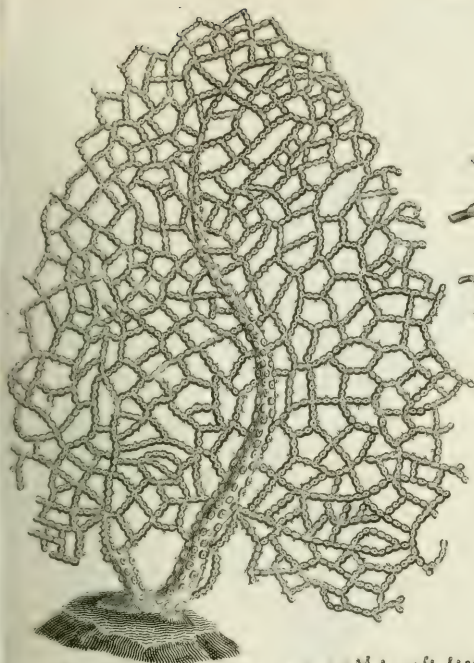
G. Lepandifera



# ZOOPHYTES.

## GENUS GORGONIA.

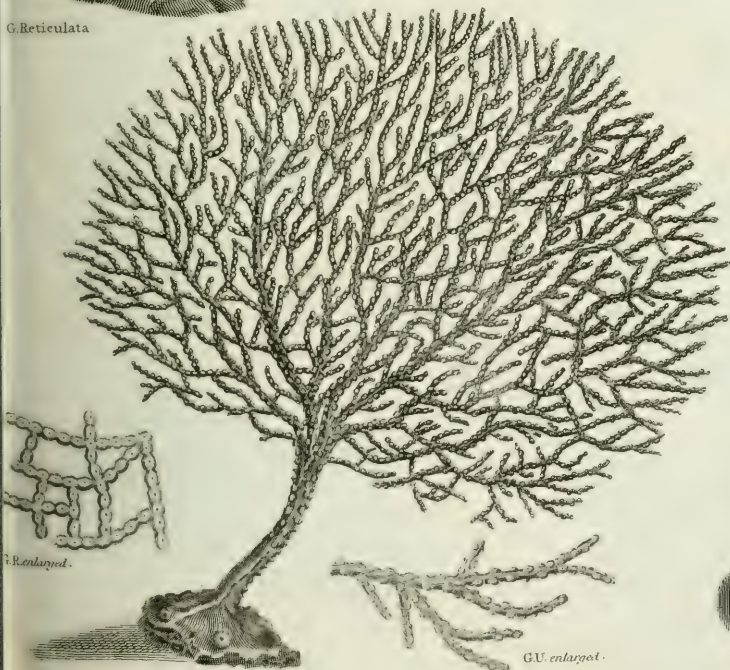
*Sea Fan.*



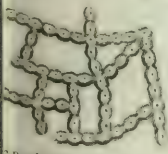
G. Reticulata



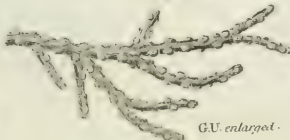
G. Nobilis



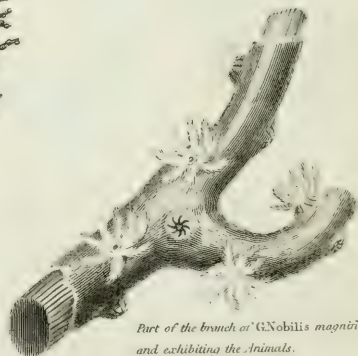
G. Umbraculum



G. Umbraculum enlarged.



G. Nobilis enlarged.



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

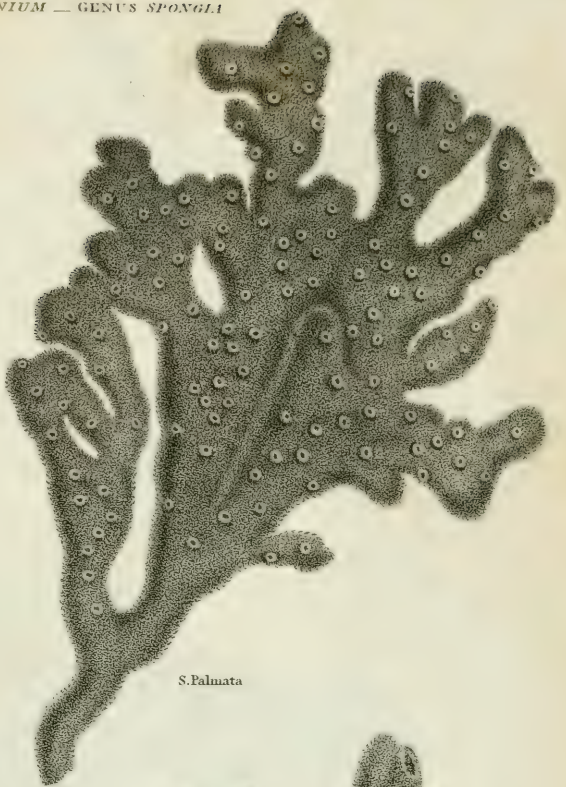


GENUS *ALCYONIUM* — GENUS *SPONGIA*

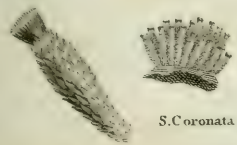
*S. Protifera*



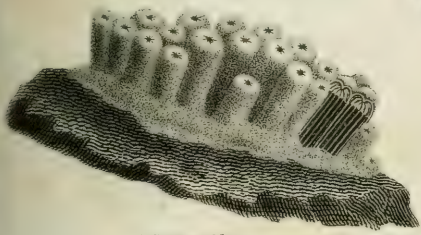
*S. Palmata*



*S. Coronata*



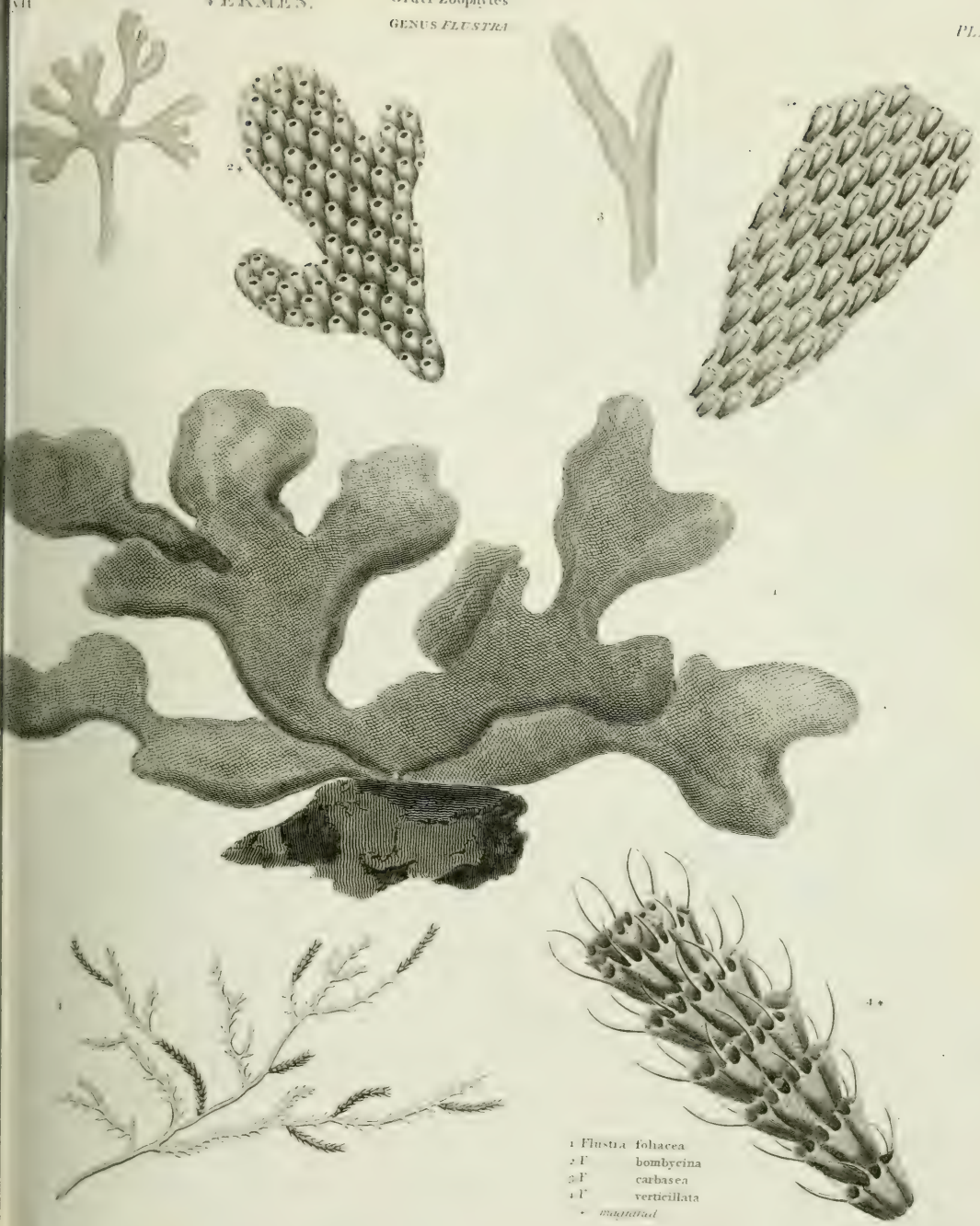
*A. Gorgonoides*



*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 1<sup>st</sup> 1899, by Longman, Hurst, Rees & Orme Paternoster Row



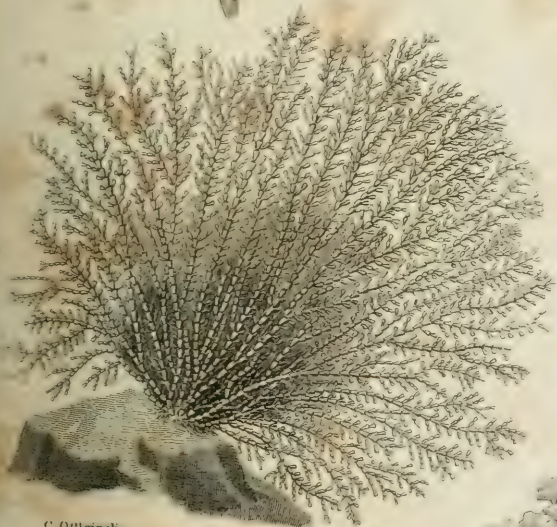
GENUS CORALLINA



*C. Officinalis*  
*marginata*



*C. incrassata*



*C. Officinalis*



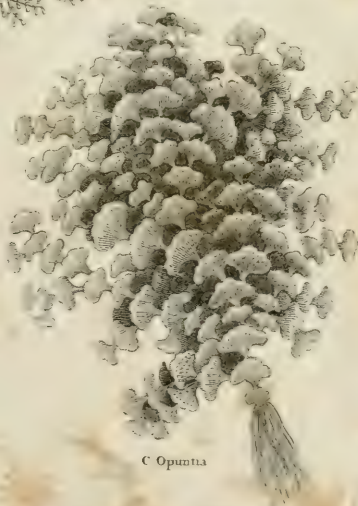
*C. Corniculata*  
*marginata*



*C. Squamata*



*C. Corniculata*



*C. Opuntia*



*C. Squamata*  
*marginata*



VERMES  
Order Zoophytes.  
GENUS SERTULARIA



*Sertularia* *futescens*  
*quadridentata*  
*pinnaster*  
*filicula*  
*multicaulis*



Order Zoophytes.

Genus Hydra.

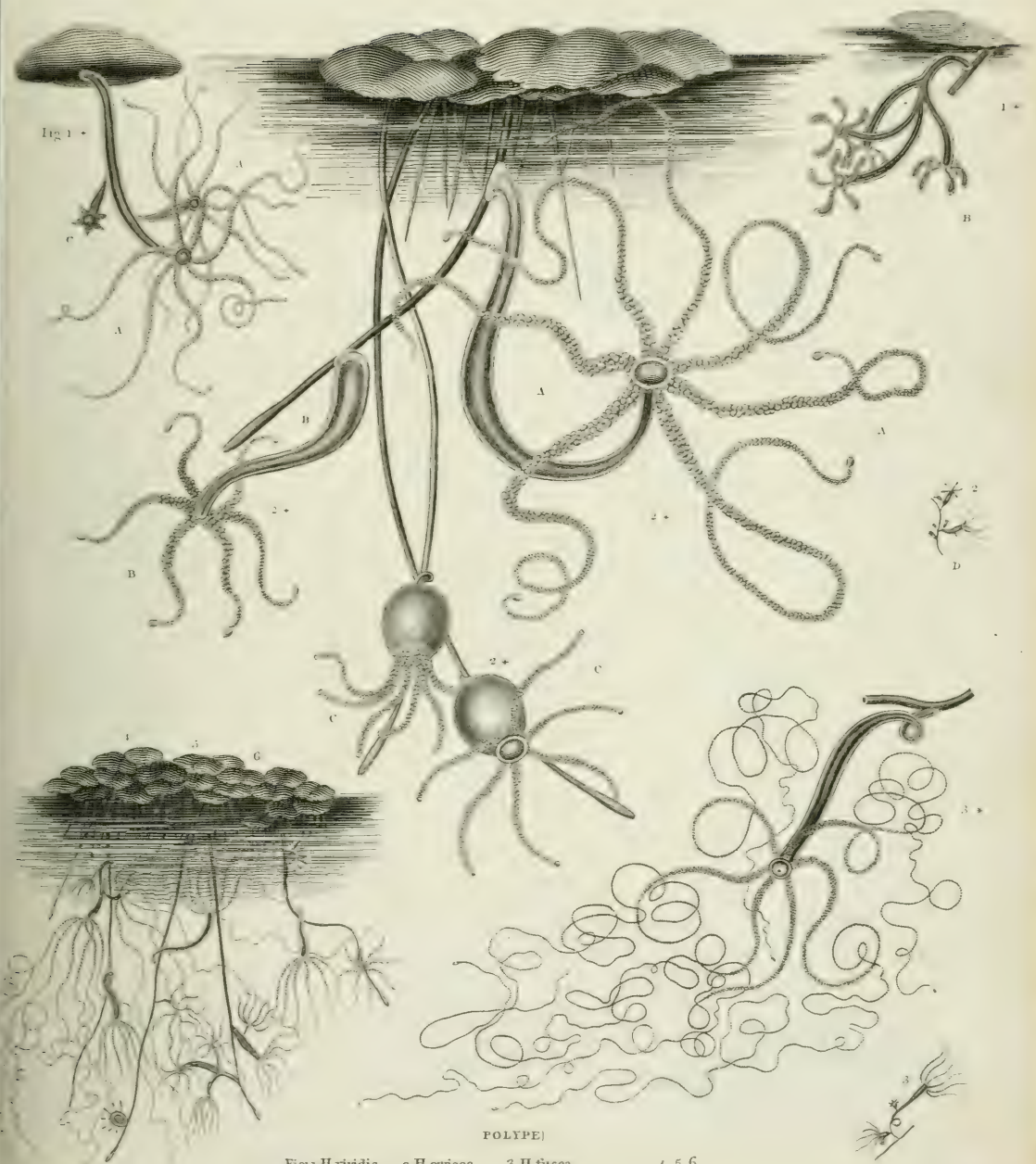


Fig: 1 *H. viridis*    2. *H. grisea*    3. *H. fusca*    4. 5. 6  
 Green P.    Grey P.    Brown P.    Clusters of the three species. nat size.

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

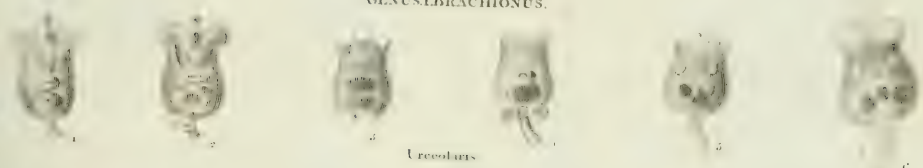




CLASS. VERMES.

Order. Infusoria.

GENUS. BRACHIONUS.



Ureolatus



Striatus



lipis

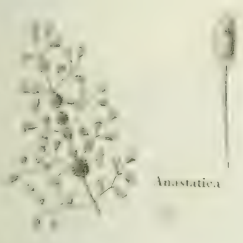


Uncinatus

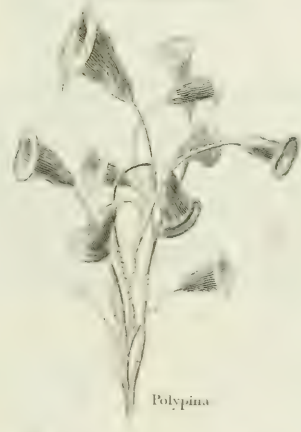


Quadricidentatus

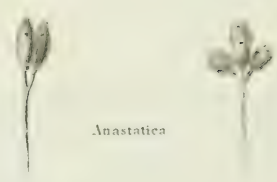
GENUS. VORTICELLA.



Anastatica



Polypina



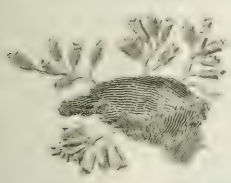
Anastatica



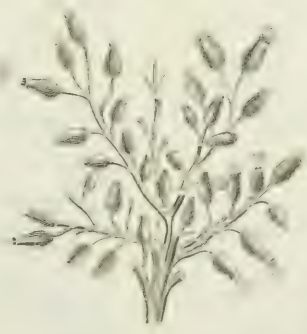
Pyraia



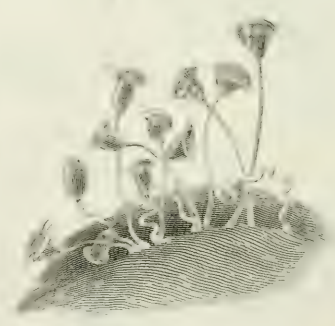
Umbellata



Digitalis



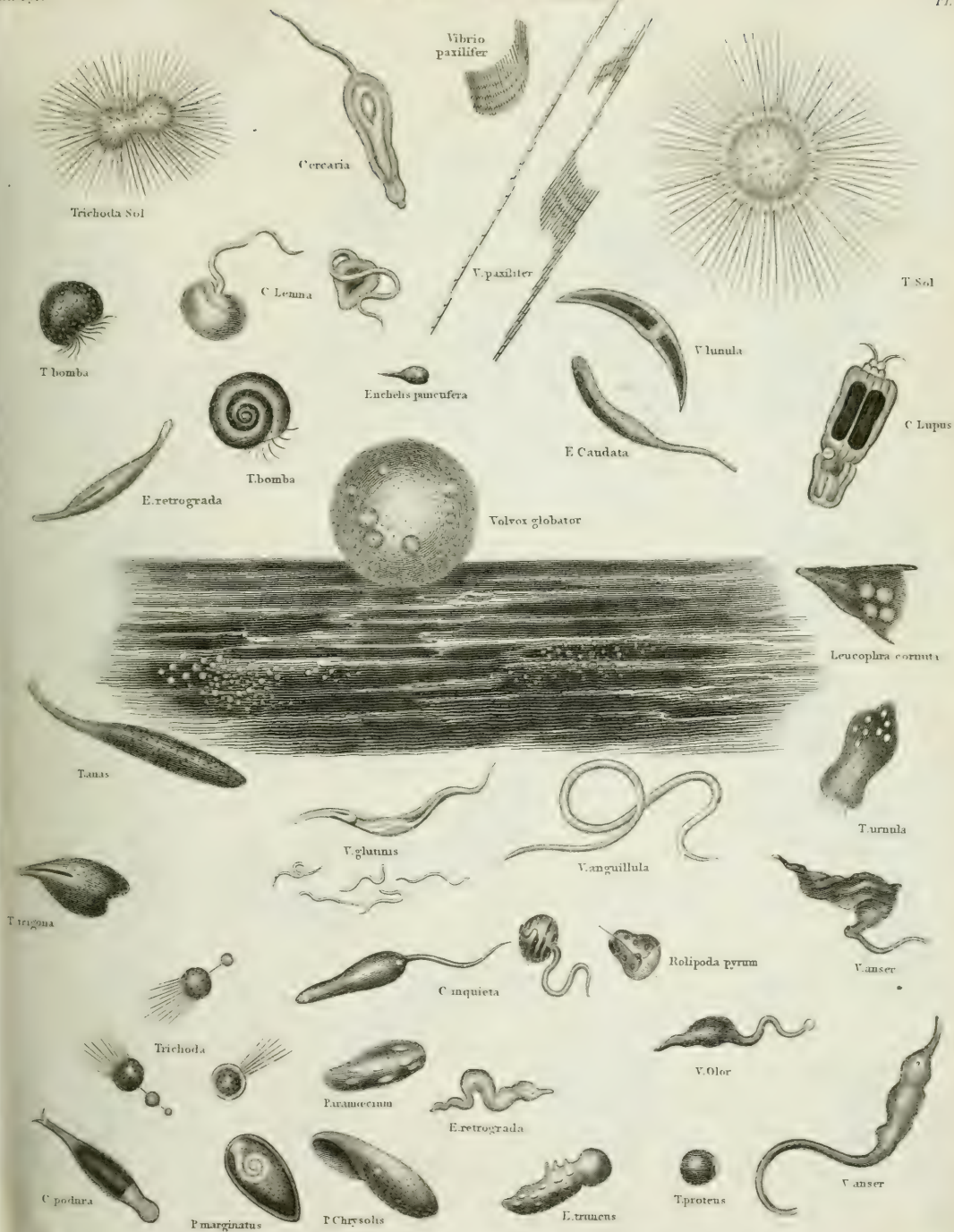
Opercularia



Nebulifera

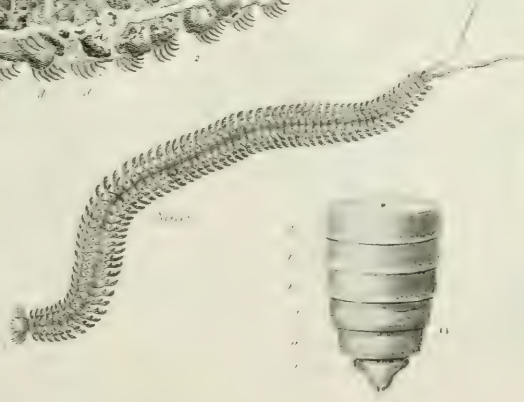
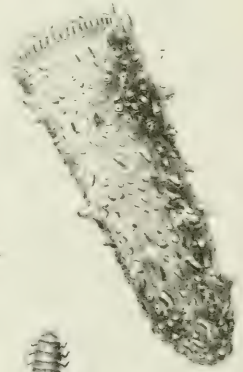
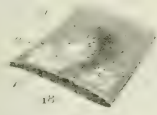
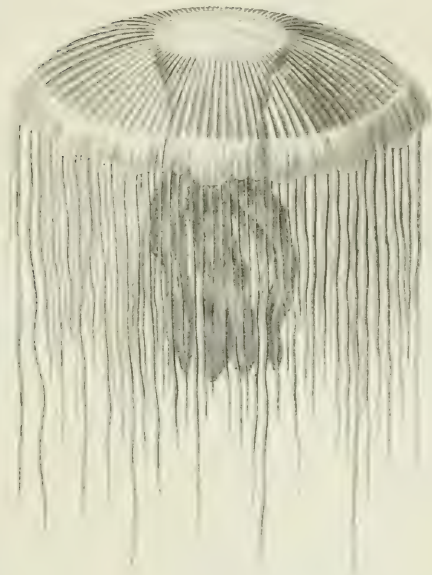
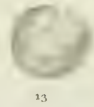


# VERMES INFUSORIAE.





LUMINOUS LIGHT. ANIMALS





Classes.



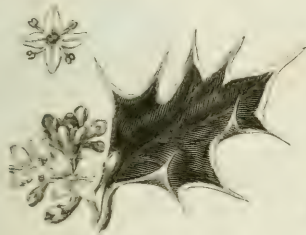
MONANDRIA



DIANDRIA



TRIANDRIA



TETRANDRIA



PENTANDRIA



HEXANDRIA



HEPTANDRIA



OCTANDRIA



ENNEANDRIA



DECANDRIA



DODECANDRIA



COSANDRIA





Classes.



POLYANDRIA



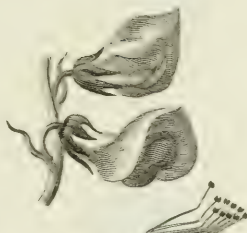
DIDYNAMIA



TETRADYNAMIA



MONADELPHIA



DIALDELPHIA



POLYDELPHIA



SYNGENESIA



GYNANDRIA



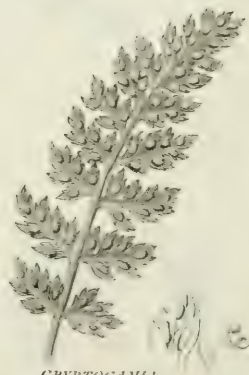
MONOECIA



DIOECIA



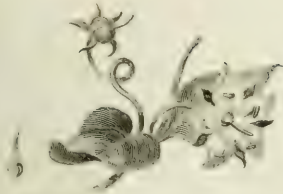
POLYGAMIA



CRYPTOGAMIA



Orders.



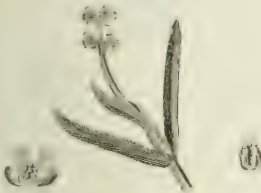
MONOGYNIA



DIGYNIA



TRIGYNIA



TETRAGYNIA



PENTAGYNIA



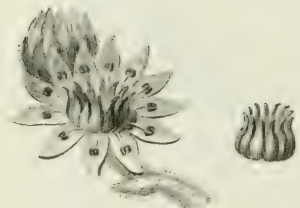
HEXAGYNIA



HEPTAGYNIA



DECAGYNIA



DODECAGYNIA



POLYGYNIA



GYMNOSPERMA



ANGIOSPERMA



Orders.



SILICULOSA



SILIQUOSA



POLYGNIMA EQUALIS



POLY SUPEREUA



POLY NECESSARI



POLY FRUSTRAEA



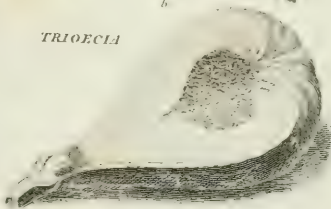
POLY SEGREGATI



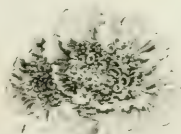
TRIOECIA



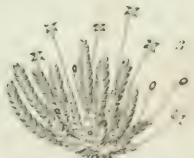
FILICES



MUSCI



ALGAE



HEPATICE



FUNGI



BOTANY.  
FRINGES  
of  
MOSES.



1. *Tetraphis*



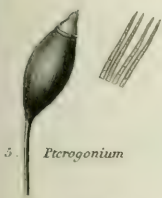
2. *Octoblepharum*



3. *Splachnum*



4. *Encalypta*



5. *Pterogonium*



6. *Grimmia*



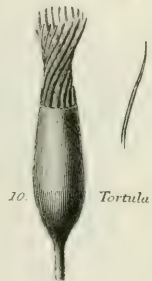
7. *Conostomum*



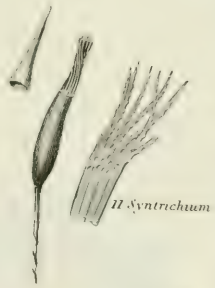
8. *Dicranum*



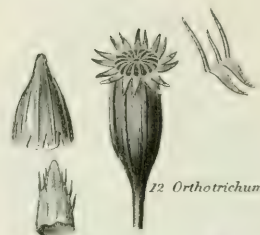
9. *Trichostomum*



10. *Tortula*



11. *Syntrichum*



12. *Orthotrichum*



13. *Neckera*



14. *Funaria*



15. *Barbatium*



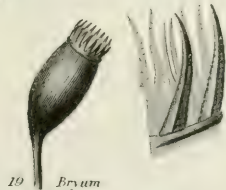
16. *B. villosa*



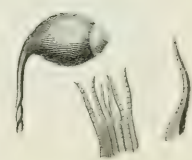
17. *Bartramia*



18. *Mnium*



19. *Bryum*



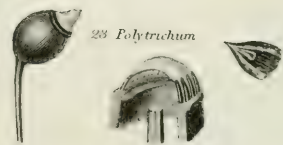
20. *Hypnum*



21. *Fontinalis*



22. *Polytrichum*



23. *Polytrichum*







AGARIC



BOLETUS



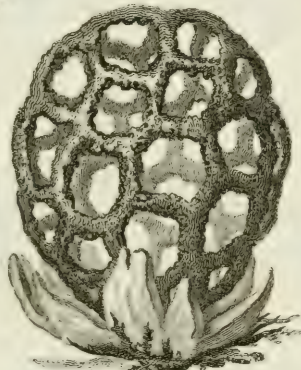
HYDNUM



PHALLUS



HELVELLA



CLATHRUS



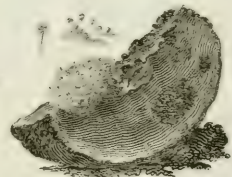
PEZIZA



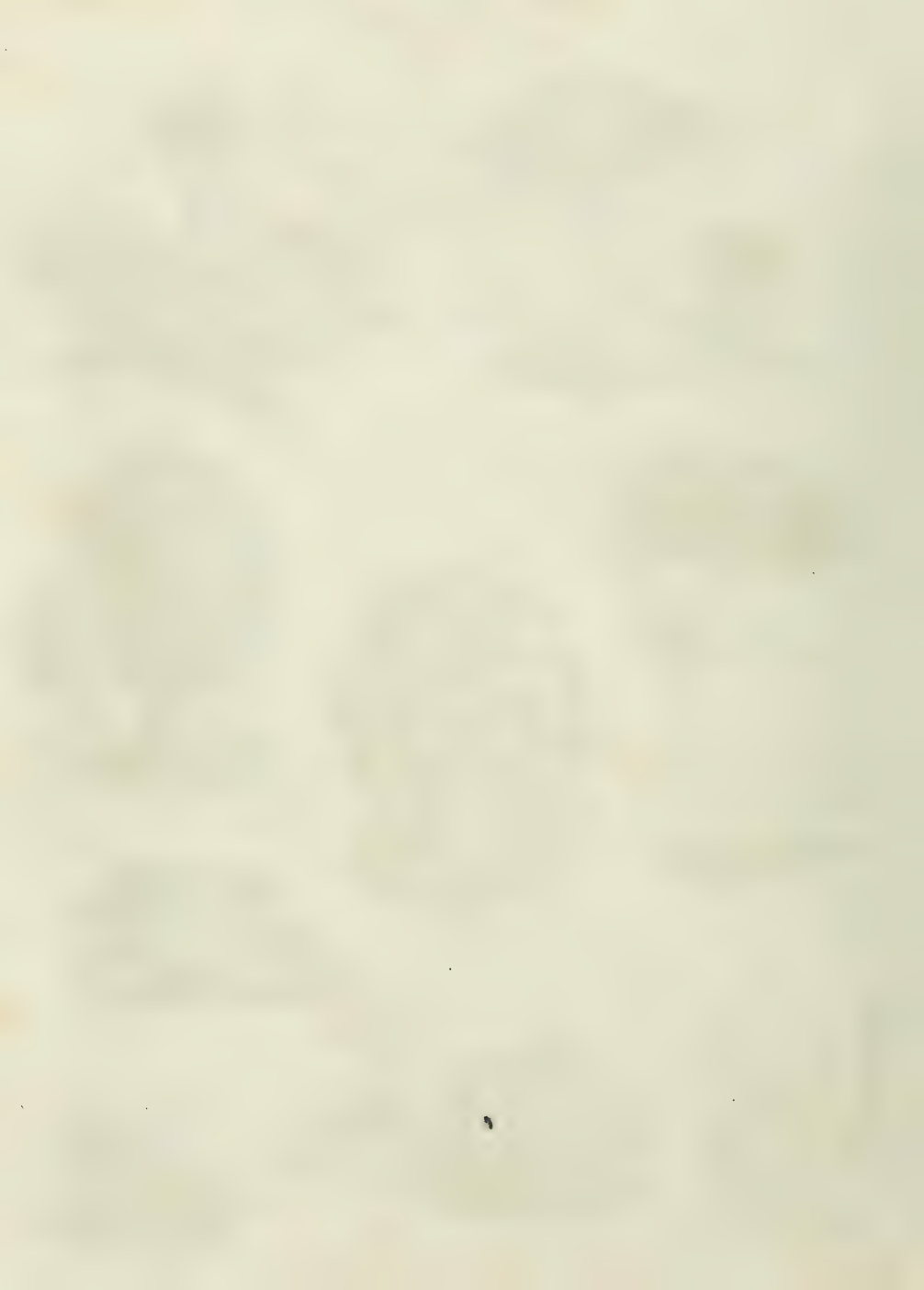
CLAVARIA



LYCOPERDON



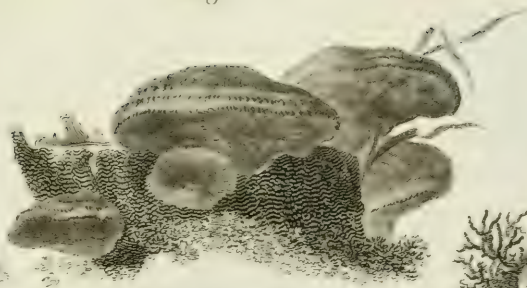
MUCOR



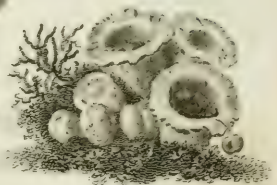
Fungi.



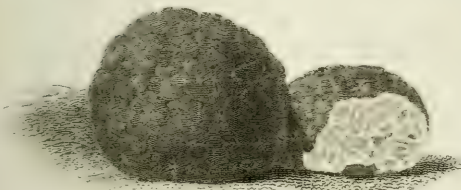
*MERULIUS eburneus.*



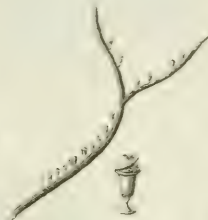
*AURICULARIA rotata.*



*NIDULARIA campanulata.*



*TUBER cibarium.*

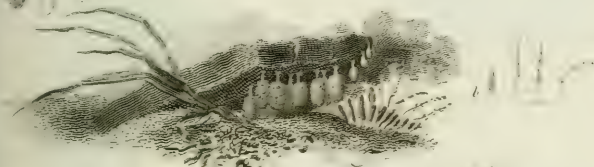


*CYATHUS minutus.*



*c. SPILERIA digitata.*

*d. .... bombardica.*



*a. TRICHA denudata*

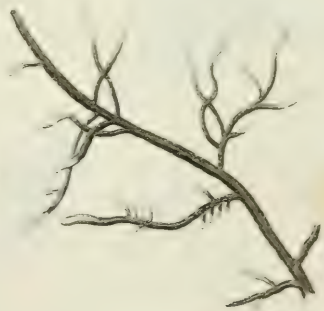
*b. .... nuda.*



*UREDO segetum*



*ÆCIDIUM anemones.*



*RHIZOMORPHA phosphorea.*



Class I. BELL SHAPED.

Fig 1.

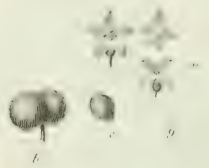
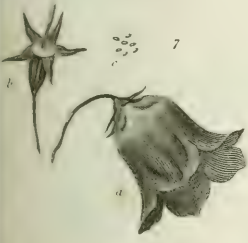


Fig 1.



Class II FUNNEL SHAPED



Class II. FUNNEL SHAPED Continued

Fig. 1

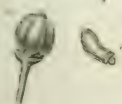


Fig. 1



Class III. PERSONATE

2

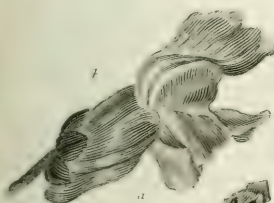
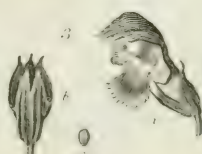
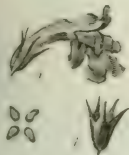


Fig. 1

Class IV. LABIATE











Class VIII. CARYOPHYLLOUS.

Fig. 1.



Class VII. UMBELLITE.

Fig. 1.



Class IX. LILIACEOUS.

Fig. 1.





# BOTANY.

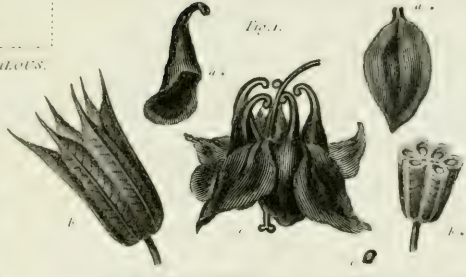
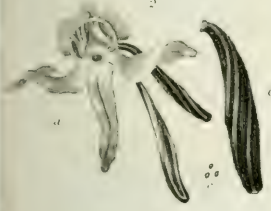
## Class X PAPILLOXACEOUS.

Fig. 1.



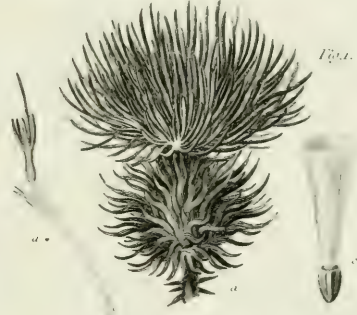
## Class XI APOCALOUS.

Fig. 1.



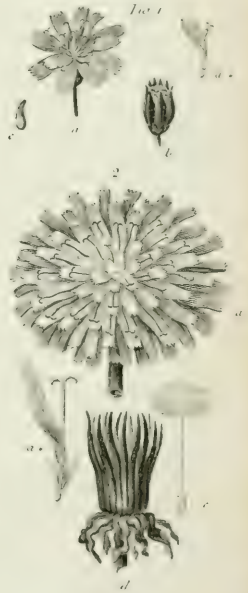
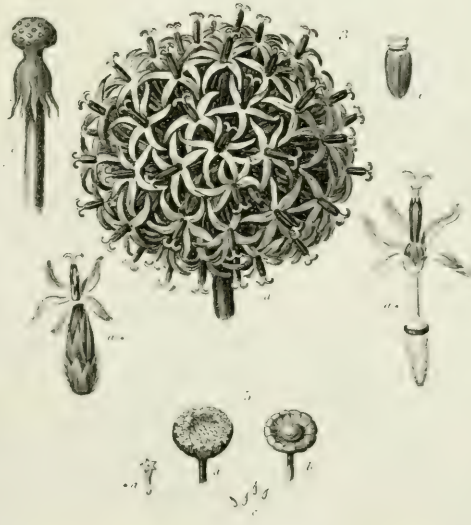
## Class XII LEUCULOUS.

Fig. 1.



## Class XIII SEMILOBULOUS.

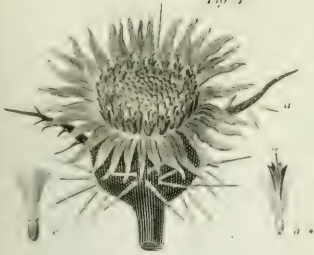
Fig. 1.



Illustrationes in Botanicis, Jussieu, Icones, Tab. 1, p. 1, 1797.



Fig. 5

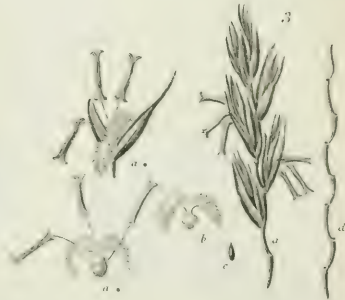
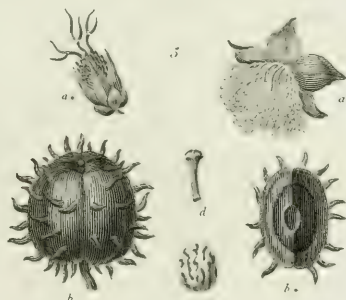


Class IV. RADIAL.



Class V. APETALOUS STAMINIFEROUS.

Fig. 1.









Class VIII. APETALOUS WITHOUT APPARENT FRUIT



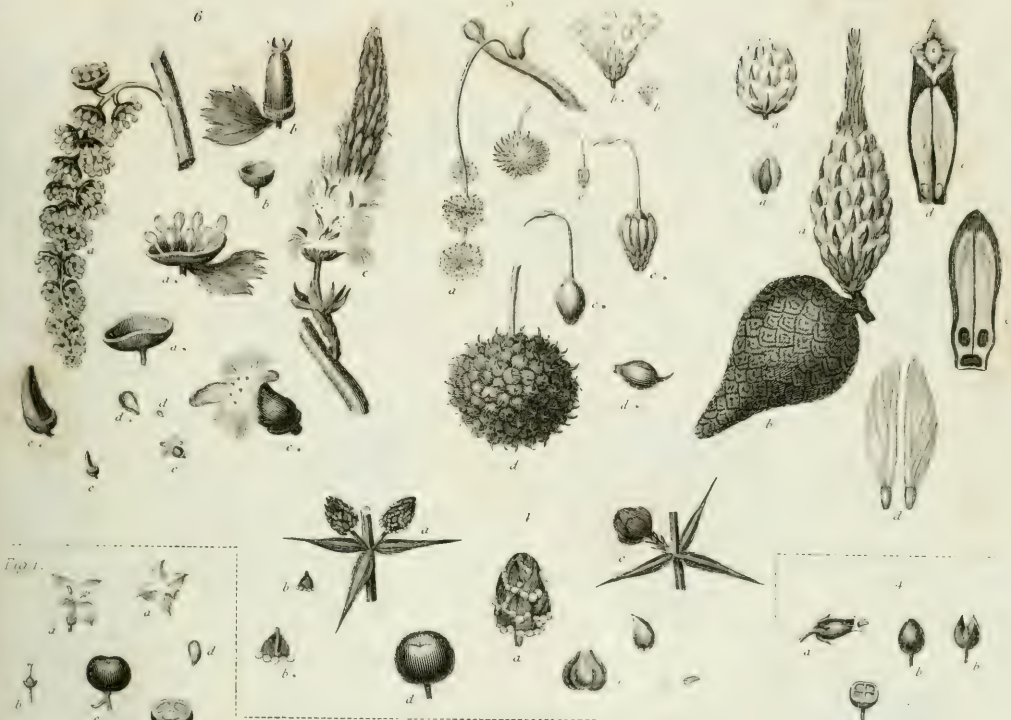
TREES & SHRUBS.  
Class VIII. APETALOUS.



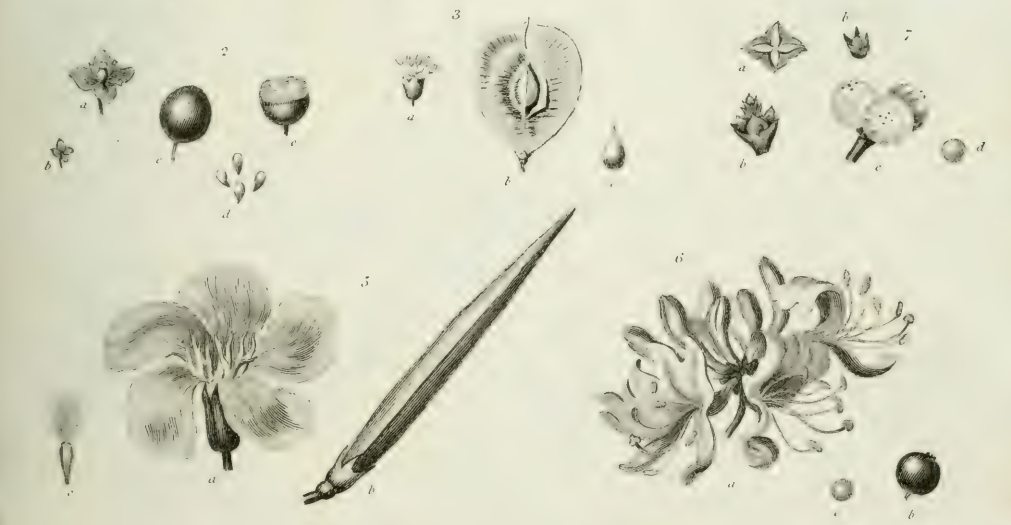
Class IX. AMENTACIOUS







Class. XX MONOPETILOUS









Bark.

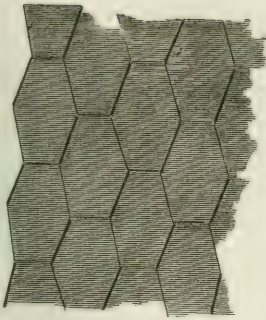


FIG. 2.



FIG. 11.

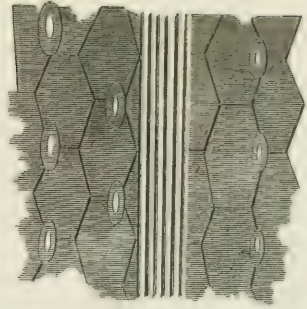


FIG. 3.

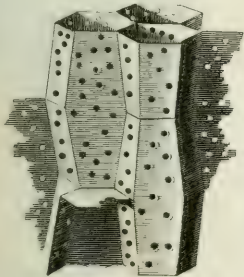


FIG. 5.

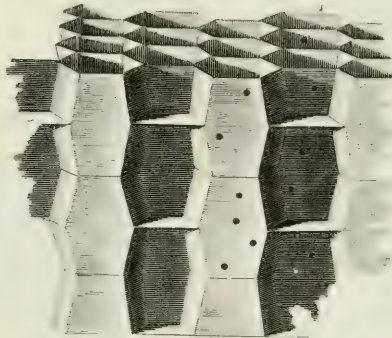


FIG. 4.

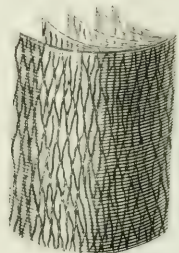


FIG. 7.



FIG. 9.

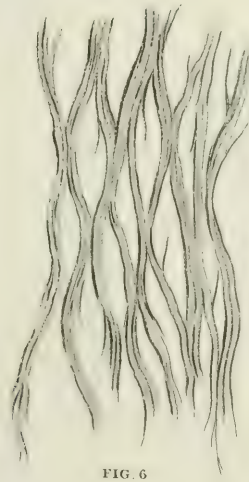


FIG. 6.

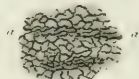


FIG. 1.



FIG. 10.

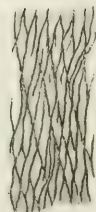


FIG. 8.





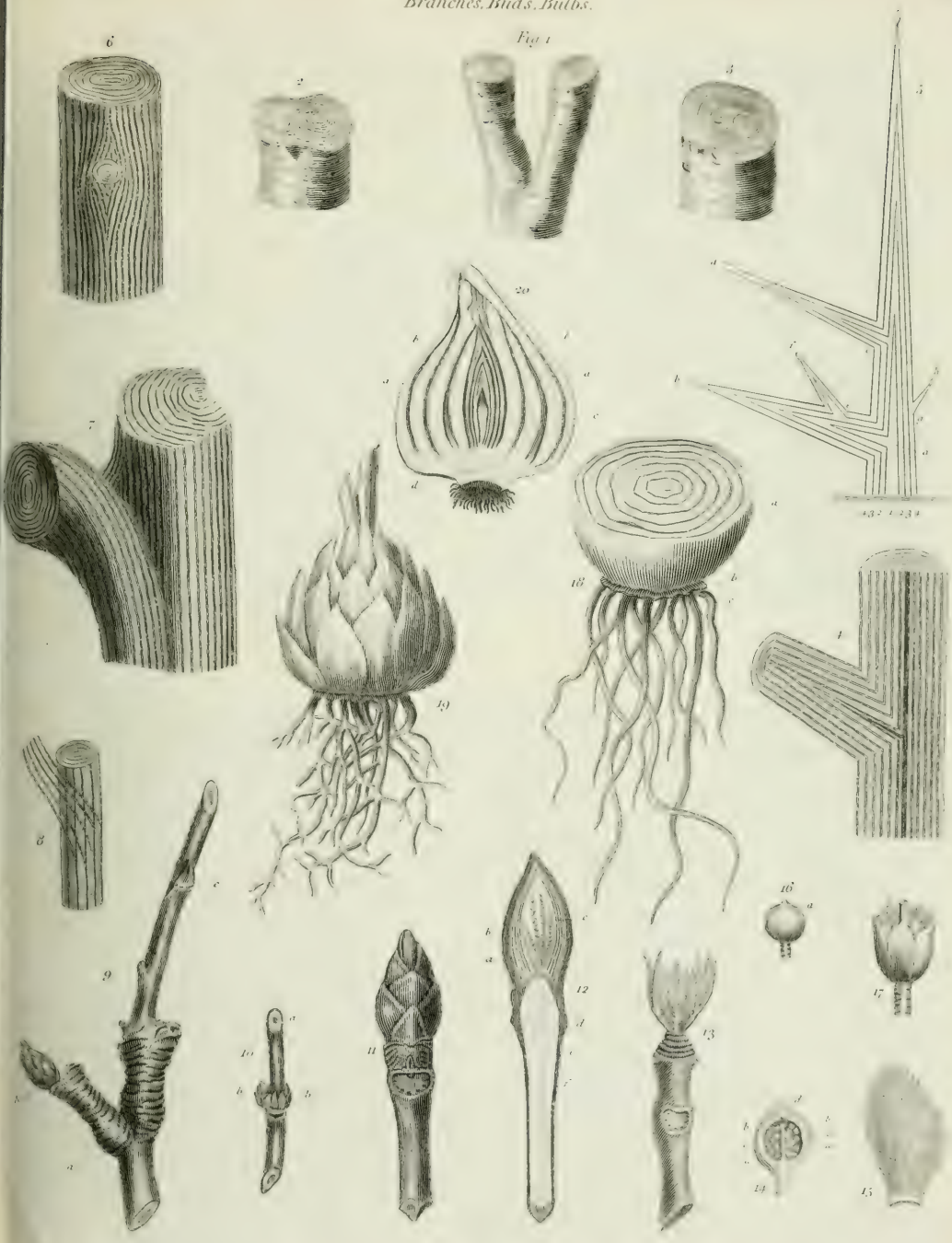




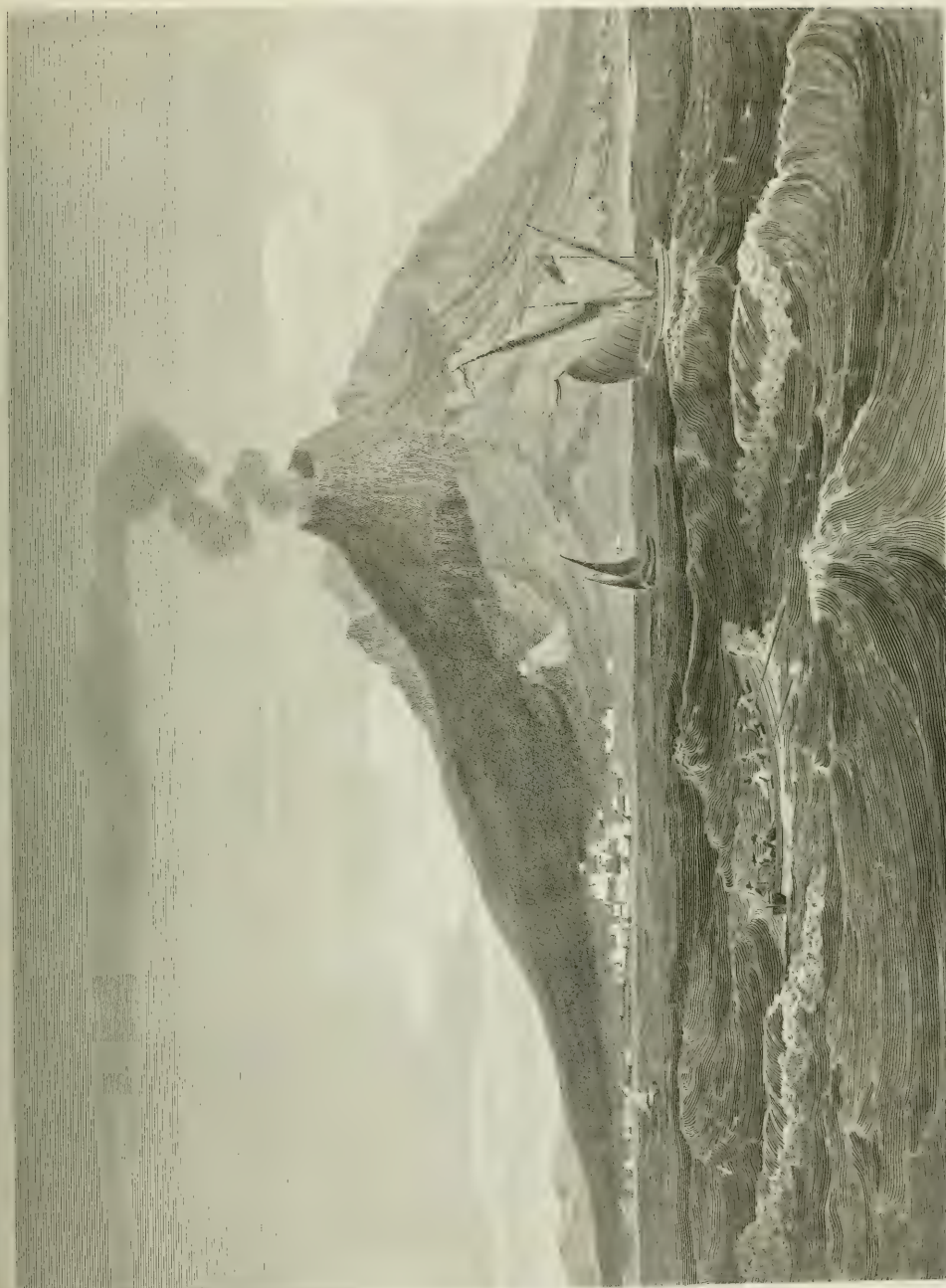
Plate I



Plate II







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

Lowry sculp

**MOUNT VESUVIUS.**

as seen from the Bay of Naples.

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









MINERALOGY.

*BASALT.*

PLATE II.









Fig. 1.



Fig. 2.

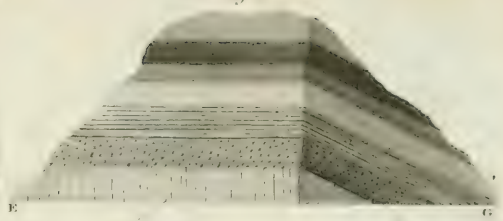


Fig. 3.

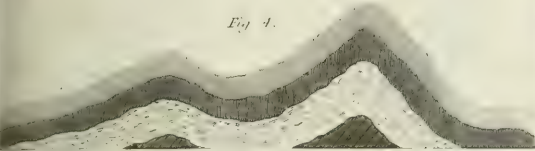


Fig. 3.

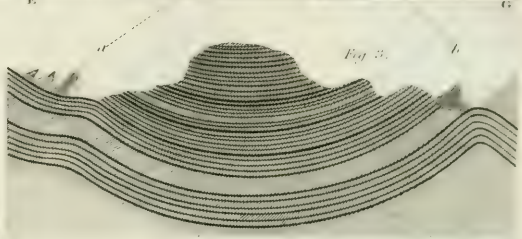


Fig. 5.



Fig. 4.

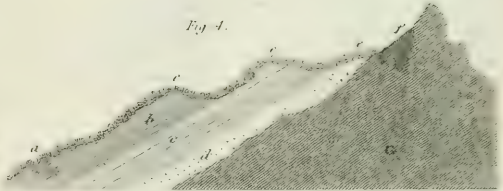


Fig. 7.

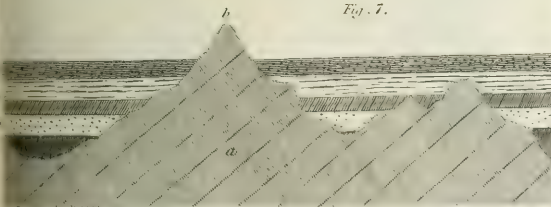
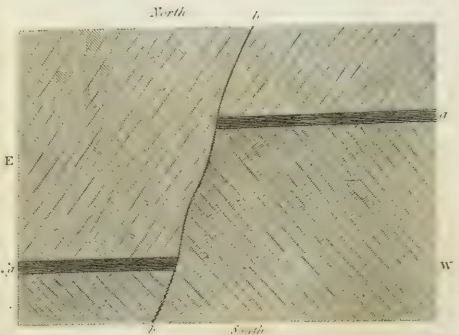
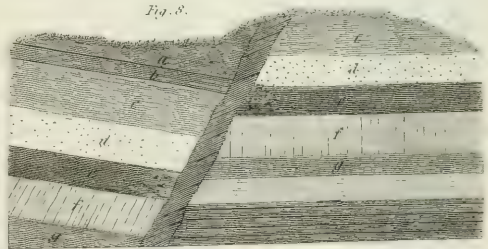


Fig. 8.



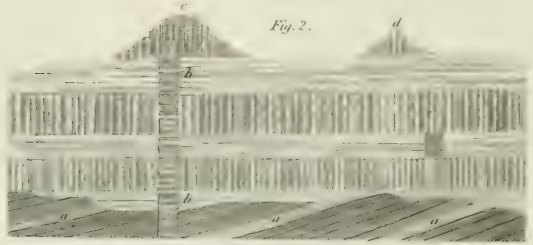






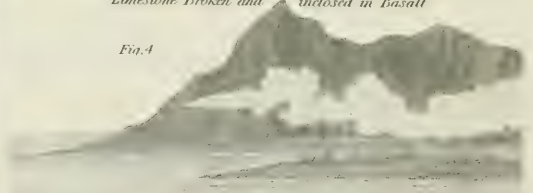


*Columnar and amorphous Basalt intersected by Basaltic Dykes*

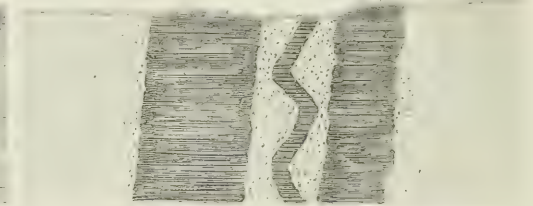


*Limestone Broken and enclosed in Basalt*

*Fig. 4*

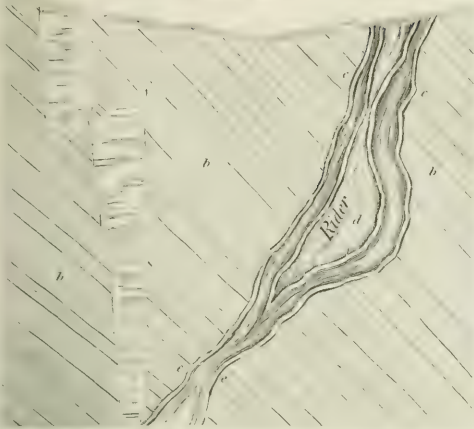


*Whinstone Dykes or Basaltic Veins passing through*

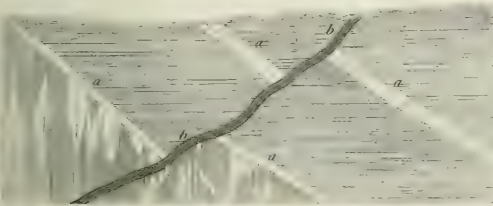


*Chalk and Changing it into Marble*

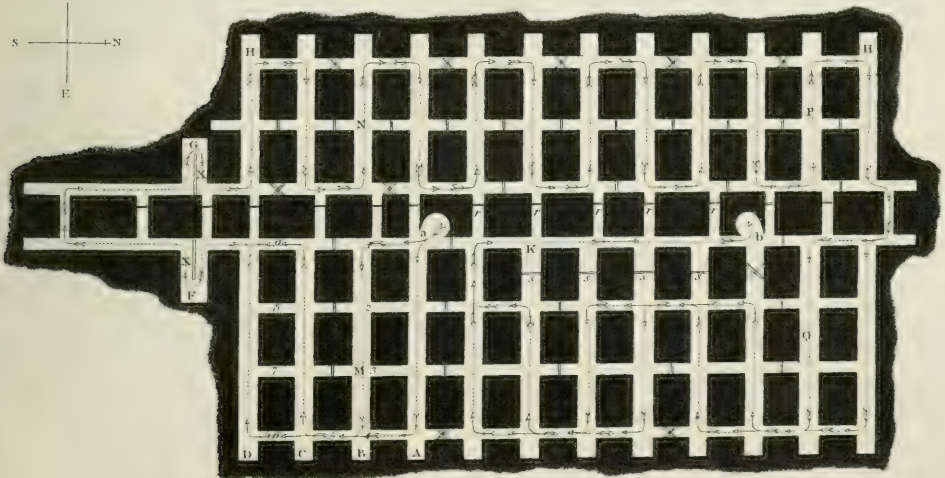
*Metallic Veins*



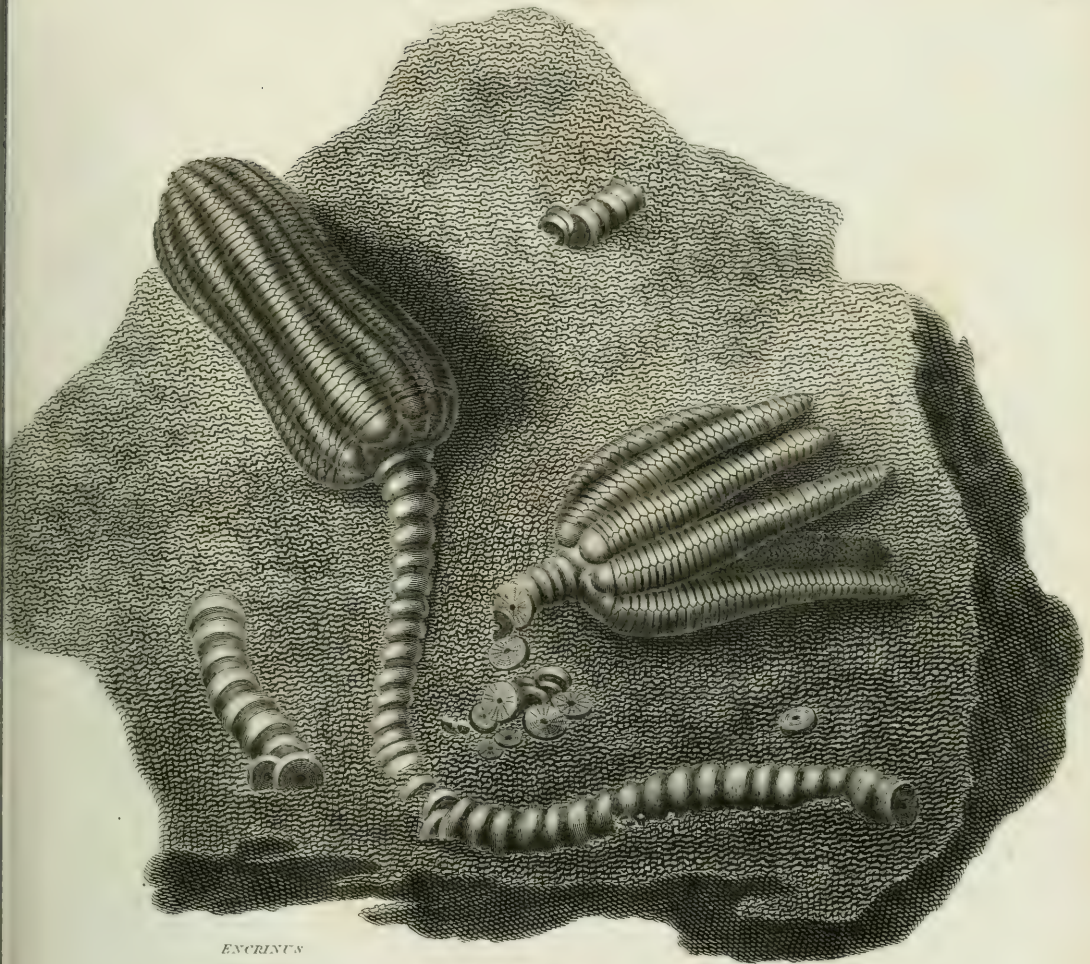
*Intersection of Metallic Veins*



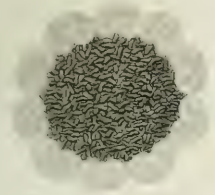
*Plan of a Coal Mine and mode of Ventilating*







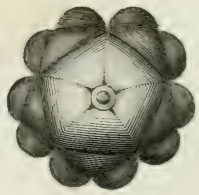
ENCRINUS  
Stone Lily



Transverse Section of the  
Lily Head.



L.H.<sup>d</sup> broken transversely.

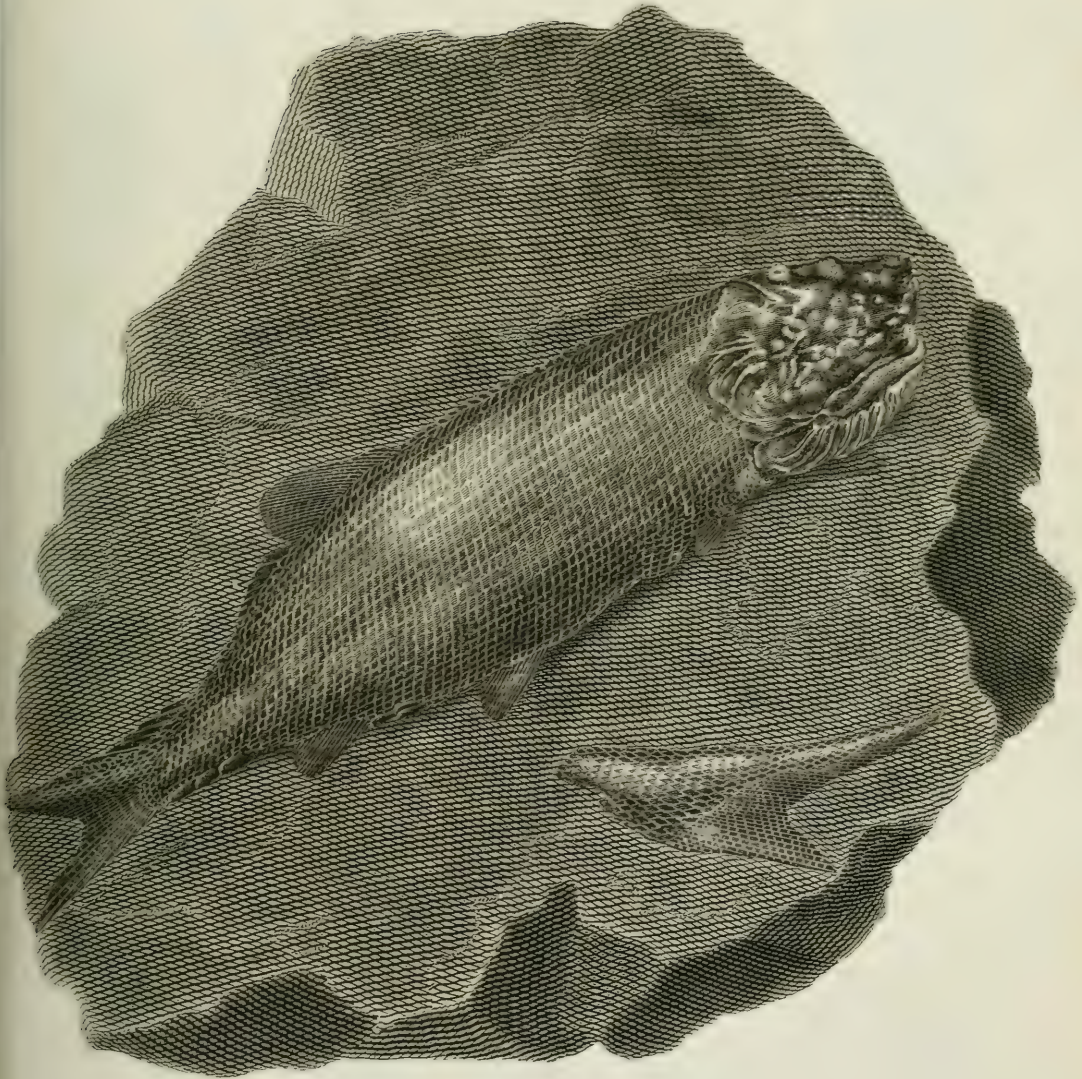


Bottom of the L<sup>d</sup> Head



ICHTHYOLITE.

*Ichthyological remains.*



*Impressions of Fishes in the Ichthyolite, found at Solenhofen in Germany.*

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



ADAMANTINE SPAR

Fig 1.



Fig 2



Fig 3

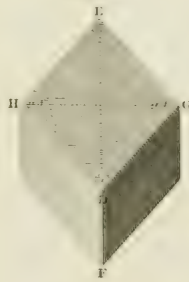


Fig 4



Fig 5

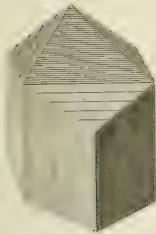
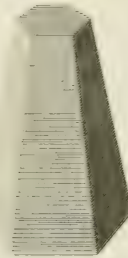


Fig 6



Fig 7



FELSPAR

Fig 8.

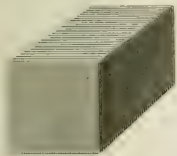


Fig 9



Fig 10.



Fig 11

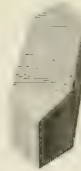


Fig 12



Fig 13.

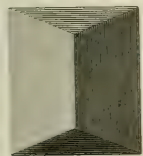


Fig 14

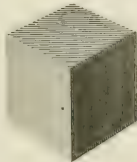


Fig 15

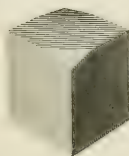
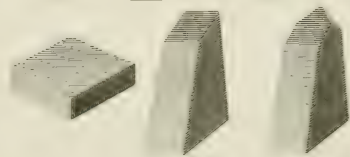


Fig 16.











CRYSTALLIZATION, *Theory of.*

Fig. 28.

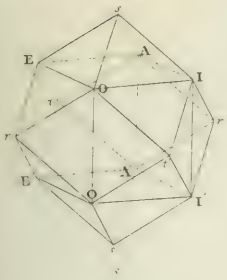


Fig. 30.

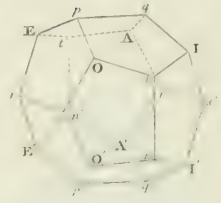


Fig. 35.

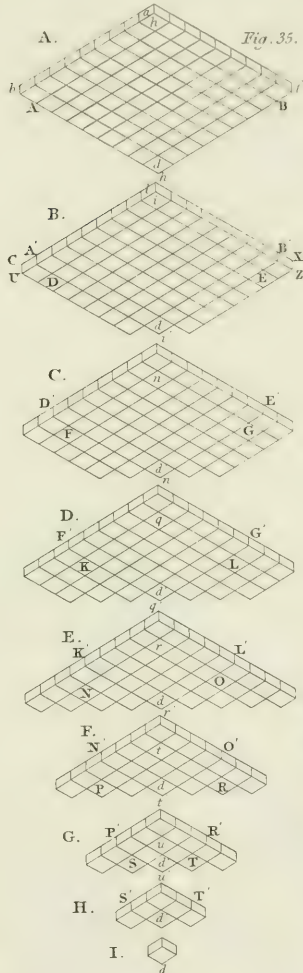


Fig. 31.

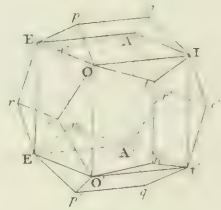


Fig. 32.

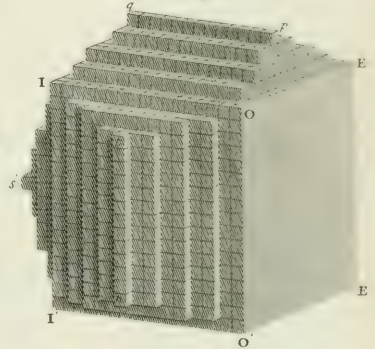


Fig. 29.

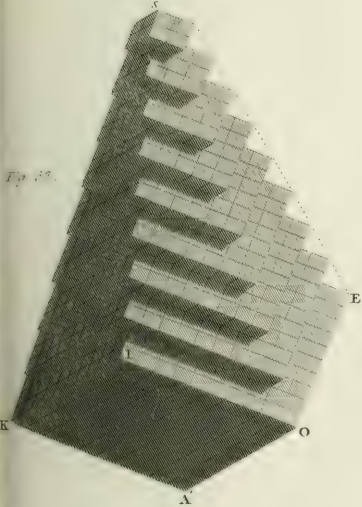


Fig. 30.

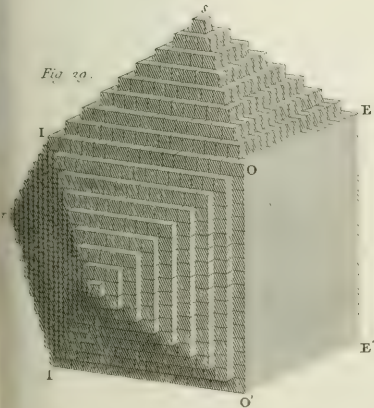


Fig. 34.

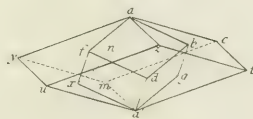
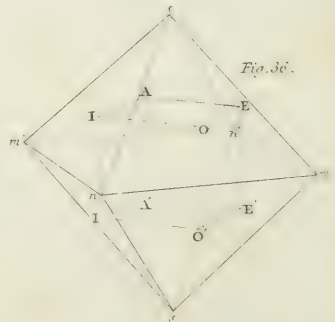


Fig. 33.





CRYSTALLIZATION, THEORY OF.

Fig. 39.

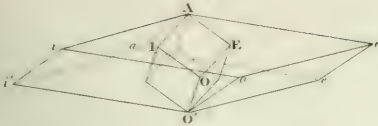


Fig. 38.

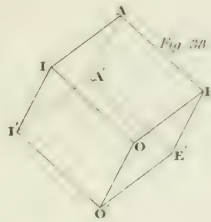


Fig. 37.

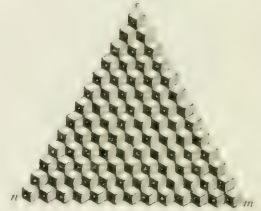


Fig. 47.

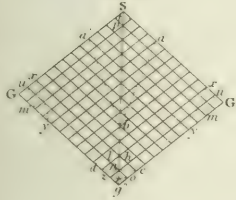


Fig. 46.

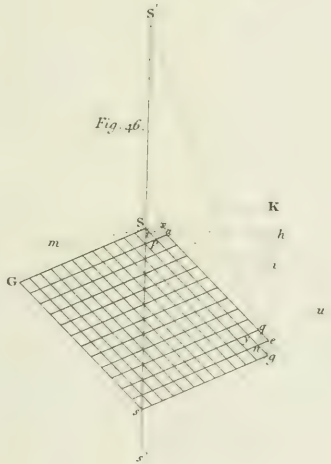


Fig. 45.

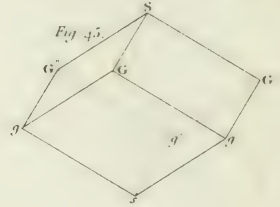


Fig. 44.

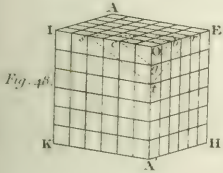


Fig. 43.

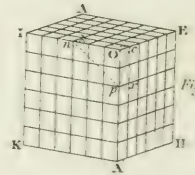


Fig. 53.

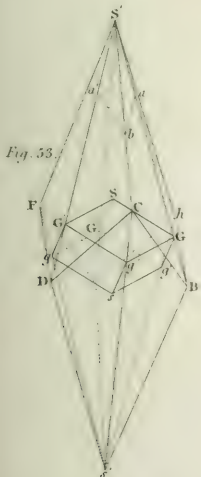


Fig. 52.

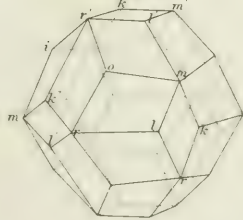


Fig. 51.

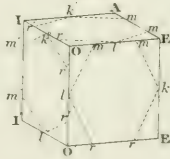


Fig. 50.

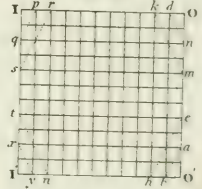


Fig. 55.

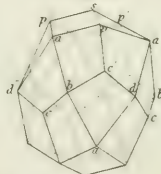


Fig. 54.

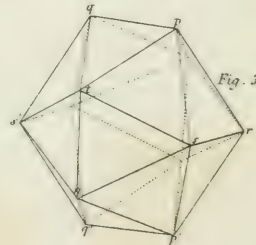
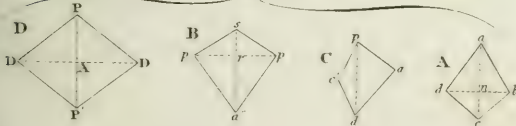


Fig. 55.





CRYSTALLIZATION, THEORY OF.

Fig. 56

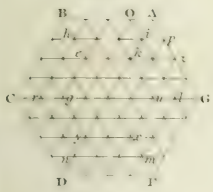


Fig. 57

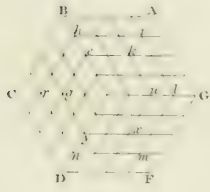


Fig. 58

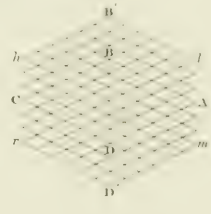


Fig. 59



Fig. 60

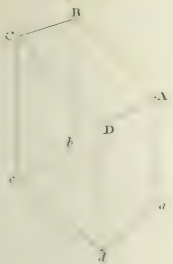


Fig. 61



Fig. 62



Fig. 63

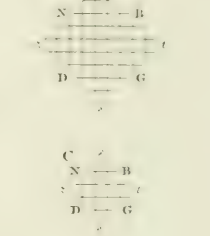


Fig. 64

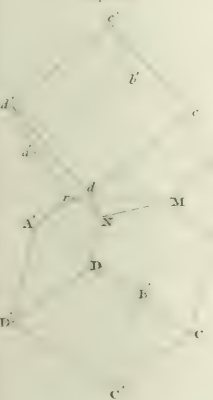


Fig. 65

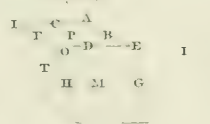


Fig. 66

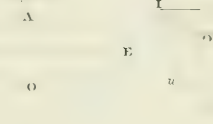


Fig. 67

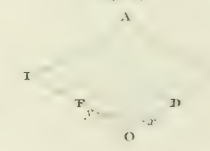


Fig. 68

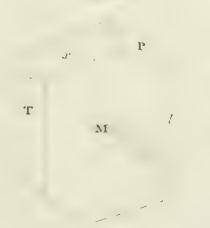


Fig. 69

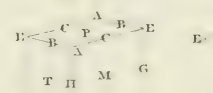


Fig. 70

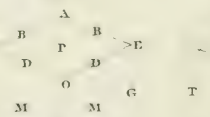


Fig. 71

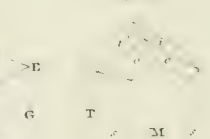


Fig. 72

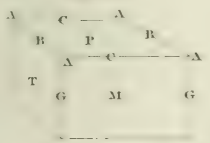


Fig. 73

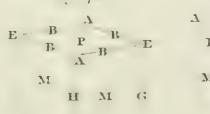


Fig. 74

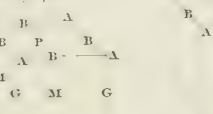


Fig. 75

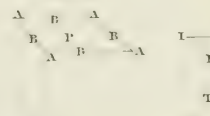
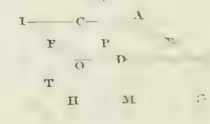
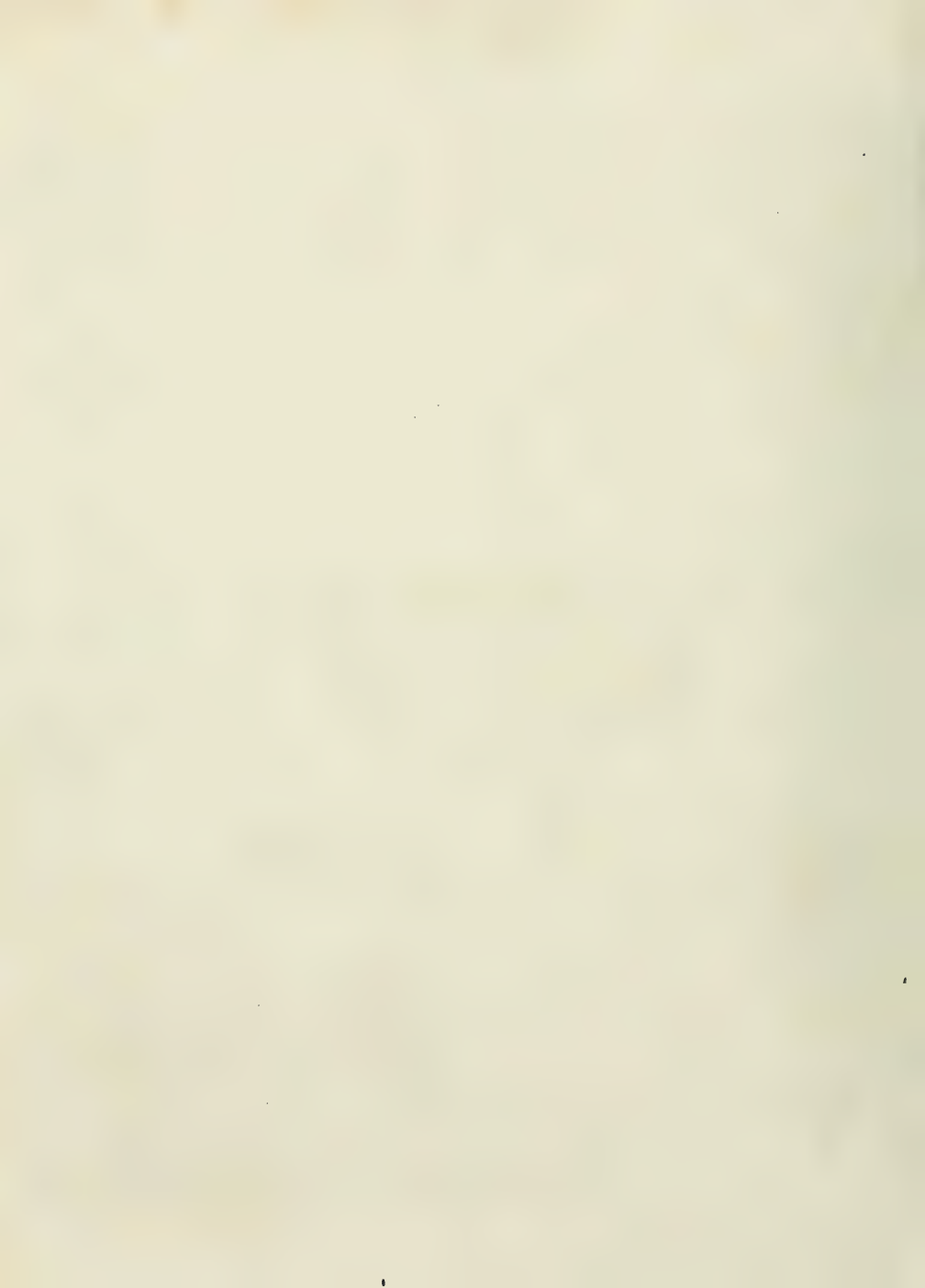


Fig. 76







CRYSTALLIZATION, THEORY OF.

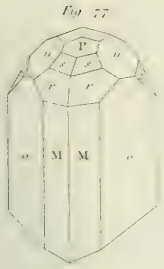


Fig. 77

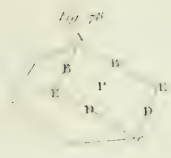


Fig. 78



Fig. 79

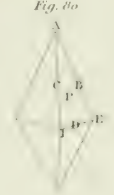


Fig. 80

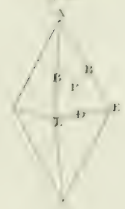


Fig. 81

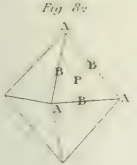


Fig. 82

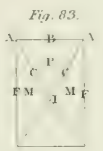


Fig. 83

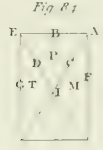


Fig. 84

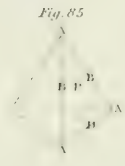


Fig. 85

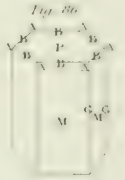


Fig. 86



Fig. 89

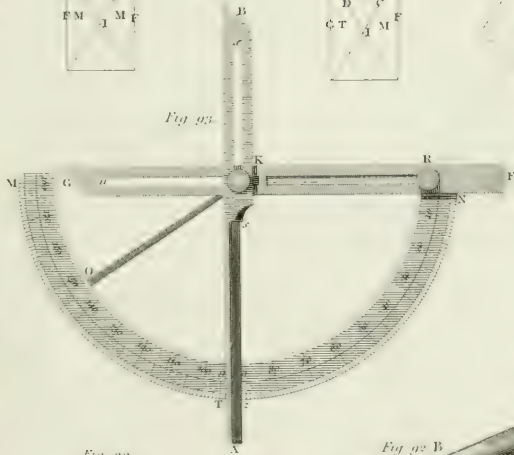


Fig. 93



Fig. 88

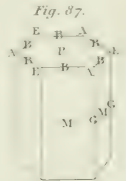


Fig. 87



Fig. 91

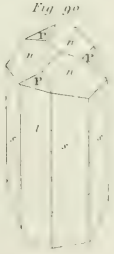


Fig. 90

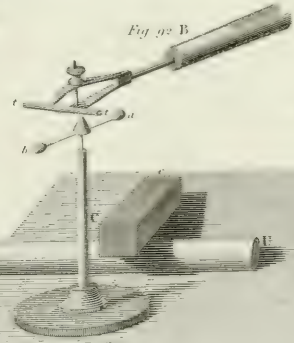


Fig. 92 B

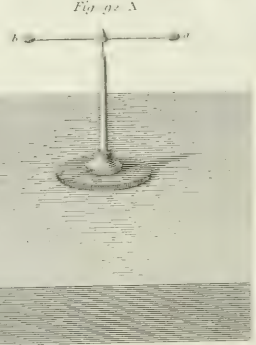


Fig. 92 A



see Mineralogy Appendix.

Cube. Fig. 1.



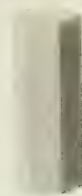
Rhomb. Fig. 2.



Fig. 3.

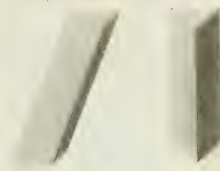


Fig. 5.



Varieties of the Prism.

Fig. 4.



Pyramid.



Fig. 7.



Table.

Fig. 8.



Double six sided Pyramid. Fig. 14.



Tetrahedron.



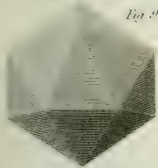
Lens.

Fig. 11.



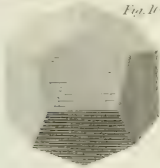
Icosahedron.

Fig. 9.



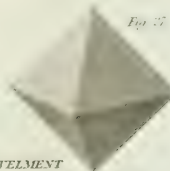
Pentagonal Dodecahedron.

Fig. 10.



Regular Octahedron.

Fig. 13.



Rhomboidal Dodecahedron.

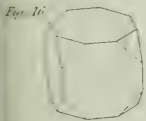
Fig. 12.



TRUNCATION

BEVELMENT

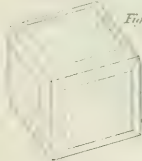
On the Angles.



On the Edges.



On all the Edges.



On all the lateral Edges.

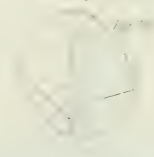
Fig. 16.



Fig. 17.



On the Angles.



ACUMINATION

The Acuminating Planes.

On the lateral edges.

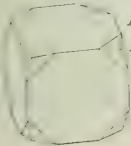


Fig. 20.

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.



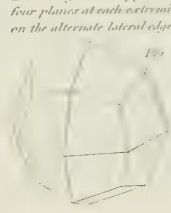
On the lateral edges.

Fig. 26.



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

Fig. 27.



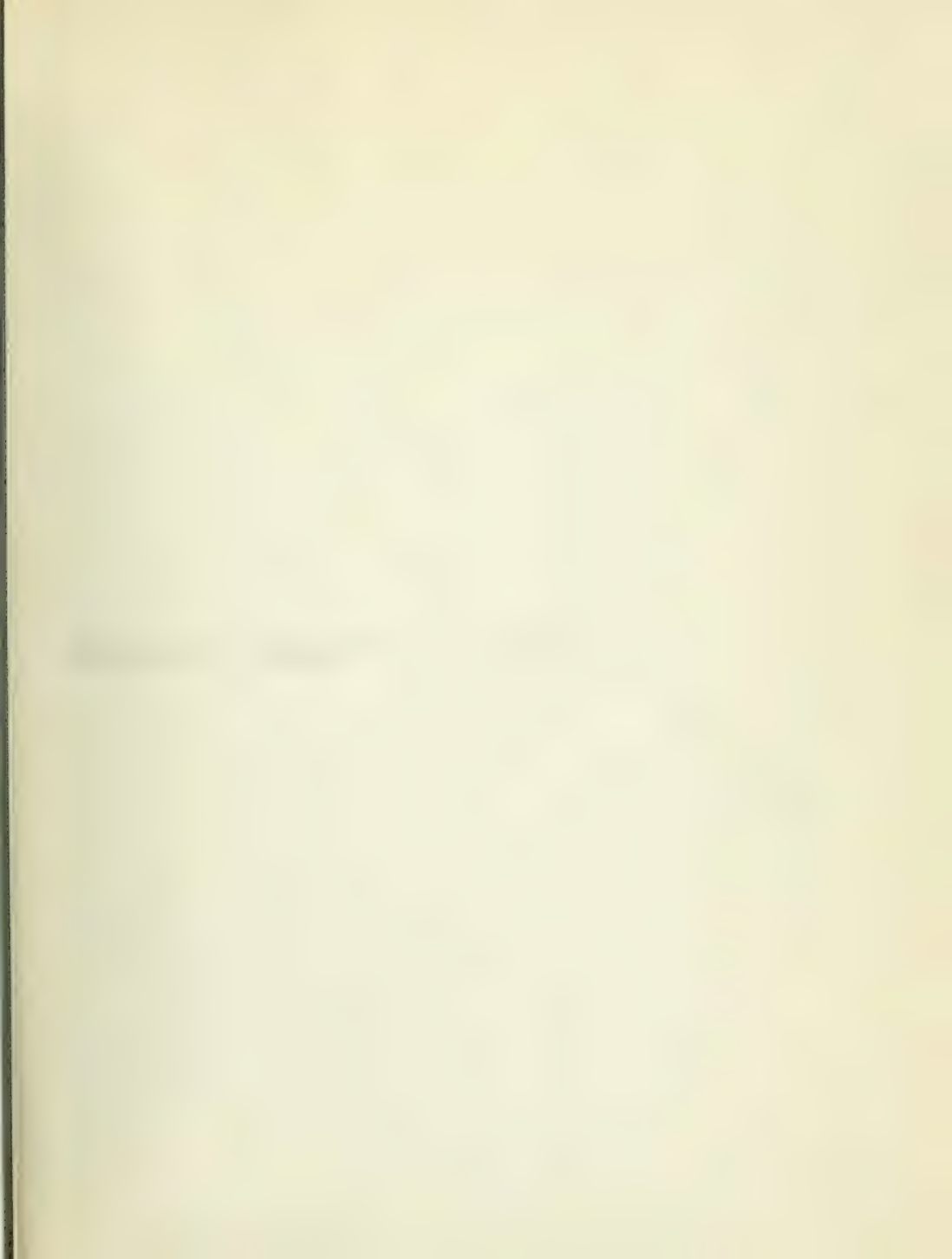
Double six sided Pyramid with the planes joined obliquely or Metastatic Crystal.




















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