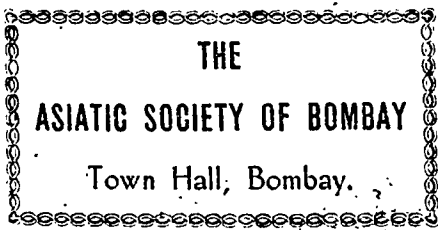




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LIST

OF THE

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ac

SPECIMENS OF FISH

IN

THE COLLECTION

OF THE

BRITISH MUSEUM.

PART I.—CHONDROPTERYGII.



PRINTED BY ORDER OF THE TRUSTEES.

LONDON, 1851.

LONDON :
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9, DEVONSHIRE ST., BISHOPSGATE. ,



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INTRODUCTION.

THE principal object of the present Catalogue has been to give a complete list of the specimens of Fish contained in the collection of the British Museum, indicating the peculiarities of each, as regards variation of character, locality, and the source from whence it has been derived.

The characters of the genera of Sharks and Rays, with the Synonyms, have principally been derived from the work of Professors Muller and Henle. The specimens which were not named by those Authors when engaged on their work, or by Dr. Andrew Smith, have been determined by Mr. Edward Gerrard, who has paid considerable attention to this subject, and has compared several of the specimens with the authentic types contained in the Paris collection.

The more important characters of the new genera of Lampreys are figured.

The other parts of this List will follow as soon as they can be completed.

JOHN EDWARD GRAY.

British Museum,
July 25th, 1851.

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EXPLANATION OF THE PLATES.

Tab. 1, Fig. 1.—Mouth, showing the teeth of *Petromyzon marinus*.

Fig. 2. " " " *Lampetra fluviatilis*.

Fig. 3. " " " *Geotria australis*.

Fig. 4. " " " *Velasia chilensis*.

Fig. 5. " " " *Caragola lopicida*.

Fig. 6. " " " *Mordacia mordax*, *from*

Zool. Erebus and Terror, t. 38.

Tab. 2.—*Geotria australis*.

LIST OF FISH.

Order I. CHONDROPTERYGII.

Skeleton cartilagineous. Cranium without sutures.

- Pisces Chondropterygii, *Gmel. Syst. Nat.* 1131, 1483.
Amphibia Nantes, part, *Linn. Syst. Nat.* i. 349. 394.
Chondropterygiens, *Cuv. Règ. Anim.* 1817, ed. ii. 376, 1829.
Pisces cartilaginei, *Raii, Syn. Pisc.* 18, 1763.
Lampetræ, *Raii, Syn. Pisc.* 38.
Chondropterygia, *Müll. Abh. Akad. Berl.* 1836. *Mag. Zool. & Bot.* i. 405.
Ichthyosia ateleosia, *Eltropomia Pomachia*, part, *Rafin. Anal. Nat.* 92, 1815.
Ichthyosia ateleosia, *Chismopnea branchisnea*, part, *Rafin. Anal. Nat.* 92, 1815.
Ichthyosia ateleosia, *Tremapnea plagiostomia* and *cyclostomia*, part, *Rafin. Anal. Nat.* 92, 1815.
Cartilagineous fishes, *Gray, Syn. B. M.*, 1842, 147.
Chondrodia and Enchelares, part, *Retzius, Anim. Piscium*, 1803.

Rafinesque, in his '*Analyse de Nature*,' 1815, 8vo., divides the fish or *Ichthyosia* into those which have complete (*Holobranchia*) and incomplete gills (*Ateleosia*), and he separates the cartilagineous fish into three orders of that sub-class, viz.: v. *Eltropomea*, *Acipenser*. vi. *Chismopomea*, *Chimæra*. viii. *Tremapnea*, *Squalus*, *Raia*, and *Petromyzon*, &c. 92, 1845.

John Ray, in his '*Synopsis Methodicus Piscium*,' 1711, placed the cartilaginous fishes together in a group, and divided them into 1. *Cartilaginei longi* = *Squalus* — 2. *C. plani et lati* = *Raia*. — 3. The lampreys by themselves.

Linnæus (*Syst. Nat.* ed. 2, p. 349, 1766) arranged these animals with the Amphibia; forming for them and some other anomalous fish, as *Lophius*, *Cyclopterus*, *Diodon*, &c., an order designated *Nantes*. This order was divided into two divisions, as I. *Spiracles compound, or many*, as *Petromyzon*, spiracles 7. *Raja* and *Squalus*, spiracles 5. *Chimæra*, spiracle single, four cut. II. *Spiracles single*, containing *Acipenser* and the other anomalous fishes.

Gmelin, (*Syst. Nat.* i. 1131), who adopted Artedi's arrangement, removed them and the other anomalous fish and formed them into an order, called *Chondropterygii*.

M. De Blainville, in his new distribution of the Animal Kingdom (*Bull. Soc. Phil.* 1816, 120, and *Jour. de Phys.* 1816, 260), forms the cartilaginous fish into a sub-class, which he calls *Dermodontes ou Cartilagineux*, and divides them into four orders: — 1. *Cyclostomes* — 2. *Selaques (Selaca)*. — 3. *Esturgeons*. — 4. *Polydontes*.

Cuvier, in his '*Règne Animal*,' ii. 1817, 2 ed. 278, 1829, arranges the cartilaginous fish thus: — 1. *A branchies libres*. Fam. 1. *Sturioniens*. — 1. *Esturgeons*. — 2. *Polyodons*. — 3. *Chimères (Chimères and Callorhynques)*. — 2. *A branchies fixes*. Fam. 2. *Selaciens*. — 1. *Squalus*. — 2. *Marteaux*. — 3. *Auges*. — 4. *Scies*. — 5. *Raies*. Fam. 3. *Suceurs ou Cyclostomes*, *Règ. Anim.* 2 ed. 278, 1829.

Professor John Müller, in his '*Anatomy of Cyclostomata*,' in the Berlin Academy for 1836, proposes the following arrangement of the Chondropterygia: — Order 1. *Brachistega*. Fam. 1. *Cataphracta*. a. *Sturiones*. — 1. *Sturio*. a. *Huso sturio*, *sterlata*, and *Helops*. Fam. 2. *Nuda*. b. *Spathulariæ*. — 2. *Spathularia*. Order 2. *Holocephala*. 1. *Chimera*. — 2. *Callorhynchus*. Order 3. *Plagiostomata*. Fam. 1. *Squali*. 1. *Squalus*. — 2. *Zygæna*. — 3. *Squalina*. — 4. *Pristis*. Fam. 2. *Raiaæ*. — 5. *Rhinobates*. — 6. *Torpedo*. — 7. *Raia*. — 8. *Prolterytgia*. — 9. *Myliobates*. — 10. *Cephaloptera*. Order 4. *Cyclostomata*. Fam. 1. *Hyperoartia*. a. *Dentata*. — 1. *Petromyzon*. b. *Edentata*. — 2. *Ammocætes*. Fam. 2. *Hyperotreta*. 3. *Myxine*. — 4. *Bodellostoma*.

Charles Buonaparte ('*Systema Ichthyologium*,' 1838, 4to.) divides the cartilaginous fish among three of his sub-classes, according to the form of the gills. Sub-class 1. *Elasmobranchii*. Section 1. *Plagiostomi*. Order 1. *Selatha*. Fam. 1. *Raidæ*.—2. *Squalidæ*. Order 2. *Acanthorrini*. Fam. 3. *Chimæridæ*. Sub-class 3. *Pomatobranchii*. Section 2. *Micrognathii*. Order 6. *Sturiones*. Fam. 8. *Polydontidæ*.—9. *Acipenseridæ*.

Professor John Müller, in his new arrangement of fishes (*Weign. Arch.* 134, 1845), divides the cartilaginous fish into three sub-classes. III. *Ganoidea*. Order 2. *Chondrostei*. Fam. 1. *Acipenserini*.—2. *Spathulariæ*. IV. *Elasmobranchii* seu *Selachii*. Order 1. *Plagiostomi*. Sub-order 1. *Squalidæ*.—2. *Rajidæ*. Order 2. *Holocephali*. Fam. 1. *Chimæra*. Sub-class 5. *Marsipobanchii* seu *Cyclostomi*. Order 1. *Hyperoartii*. Fam. 1. *Petromyzonini*. Order 2. *Hyprotreti*. Fam. 1. *Myxinoidea*. Sub-class 6. *Leptocardii*. Order 1. *Amphioxini*. Fam. 1. *Amphioxini*.

Mr. Gray, in the '*Synopsis of the British Museum*' for 1842, arranged them as follows:—1. *Acipenseridæ*.—2. *Chimæradæ*.—3. *Squalidæ*.—4. *Raidæ*.—5. *Petromyzidæ*.—6. *Amphioxidæ*, p. 147 and 150.

Sub-Order I. ELEUTHEROPOMI.

Gills free.

Ch. a branchies libres, *Cuv. Règ. Anim.* ii. 2 ed. 27, 378.

Ch. Branchiostega and Ch. Holocephala, *Müll. Abh. Akad. Berl.* 1816.

Ch. Eleutheropoma, *De Kay, Hist. New York.*

Eltropomia pomachia, part, *Rafin. Anal. Nat.* 92, 1815.

Elasmobranchii and Pomatobranchii, part, *Bonap. Syst. Ichth.* 1838, 13.

Ganoidia chondrostei, *Müll. Weign. Arch.* 134, 1848.

Section A. STURIONA.

Ch. Branchiostega, *Müll. Abh. Akad. Berl.* 1836. *Mag. Zool. & Bot.* i. 405.

Les Sturioniers ou chondropterygiens a branchies libres (part.), *Cuv. Règ. Anim.* 2 ed. ii. 378.

Sturiona, *Rafin. Anal. Nat.* 92, 1815.

Pomatobranchii Micrognathii, *Bonap. Syst. Ichth.* 1838, 13.

Sturiones, *Bonap. Syst. Ichth.* 1838, 13.

Fam. 1. ACIPENSERIDÆ.

Cartilage of cranium and skin of body covered, at intervals, with cartilaginous or bony shields.

Acipenser, *Linn. Syst. Nat.*

Sturio, *Rafin. Anal. Nat.* 1810.

Les esturgeons, *Cuv. Règ. Anim.* 2 ed. ii. 378, 1829.

Brach. cataphracta seu Sturiones, *Müll. Abh. Akad. Berl.* 1836.

Sturiona, part, *Rafin. Anal. Nat.* 92.

Acipenseridæ (Acipenserini), *Bonap. Syst. Ichth.* 1838, 13.

Acipenseridæ, *Gray, Syn. B. M.* 1840.

Acipenserini, *Müll. Weign. Arch.* 134, 1845.

1. ACIPENSER.

Nose conical, tapering. Head shielded. Mouth beneath the base of the muzzle, with four or six beards in front. Eyes and nostrils lateral. Body elongate, with longitudinal series of bony plates. Dorsal single behind the ventral and over the anal. The tail-fin produced with a short under lobe.

Rafinesque (*Ichthyologia Ohiensis*, 79, 1820) proposed to divide this genus into two, thus:— 1. *Sturio*, with five. 2. *Sterletus*, with three rows of bony plates.

Professor Brandt (in *Brandt & Ratz. Med. Zool.* ii. 1830, 4to.) at first divided the sturgeons as follows:—

1. *Huso*.—Snout acute or obtuse, wholly or partly cartilaginous, more or less pellucid; shields which arm the body distant from one another. A. *Huso*, A. *dauricus*, A. *brevirostris*, A. *rubicundus*.
2. *Sturio*.—Snout obtuse or awl-shaped, covered with a bony shield not pellucid; shields distant. A. *Guldenstædtii*, A. *Sturio*, A. *Lichensteinii*, A. *Schypa*, A. *Heckelii*.
3. *Sterleta*.—Snout awl-shaped, covered with bony shields, not pellucid; shields imbricated. A. *Ruthenus*.
4. *Helops*.—Snout long (one-sixth or one-seventh of the length of the body), covered with strong bony shields; shields distant. A. *stellatus*, A. *oxyrhynchus*, A. *maculosus*.

Professor Brandt, subsequently, in the same work, p. 349, reduced the genus into three sections with the following character:—

1. *Huso*.—Beards simple, joined together, reaching to the upper lip or beyond it. *A. Huso*, *A. Schypa* = *A. Dauricus*, *Fitz. & Heckle*.
2. *Sturio*.—(Formed by uniting *Sturio* and *Helops*). Beards simple, roundish, scarcely united. (*A. Sturio*, *A. Guldenstædtii*, *A. stellatus*).
3. *Sterleta*.—Beards roundish, with small nipple-shaped appendages. *A. Ruthenus*.

Drs. Fitzinger and Heckle, in their monographs of the genus (*Annalen der Wiener Museum der Naturg.* i. 270, 1836), proposed to divide them into two sections, each containing three sub-genera, thus:—

- A. Dorsal-plates in front sloping and behind highest, ending in a point and open up to the point.
 - a. The skin covered with small pectinated bony plates. Beards fimbriated.
 1. Under lip continuous. (*Lioniscus*.—*A. glaber*).
 2. Under lip not continuous, or a rudiment on each side of the mouth. (*Acipenser*.—*A. Sinensis*, *A. Gmelini*, *A. Ruthenus*, *A. Aleutensis*, *A. maculosus*, *A. oxyrynchus*).
 - b. The skin covered with larger and smaller pectinated bony scales and larger stellated bony plates. The beards simple: the under lip not continuous, or simply a rudiment on each side of the mouth. (*Helopes*.—*A. stellatus*).
- B. Dorsal-plates on both sides sloping, highest in the middle, ending in a point.
 - a. The skin covered with smaller and larger stellated bony shields. Beards simple. Under lip not continuous, or a rudiment on each side of the mouth. (*Antacei*.—*A. Schypa*, *A. Guldenstædtii*).
 - b. Skin chagrined, rough, with bluntish bony knobs. The beards simple. Under lip not continuous, or a rudiment only on each side of the mouth. (*Sturiones*.—*A. Heckelii*, *A. Sturio*).
 - c. The skin rough, spotted, with pointed bony knobs. The beards flattened, riband-shaped. Under lip not continuous, or a rudiment on each side of the mouth. (*Husones*.—*A. brevisrostris*, *A. rubicundus*, *A. macrostomus*, *A. Dauricus*, *A. Huso*).

This arrangement is adopted in this Catalogue.

A. Dorsal-plates sloping in front, higher behind, ending in a point, and open up to the point.—ACIPENSER.

Acipenser, A. Fitz. & Heckle, *Ann. Wien. Mus.* i. 269, 1836.

1. Dorsal-shields in front sloping, behind very high, ending in a point, open up to the base of the point. Skin covered with small pectinated bony plates. Cirrhi fimbriated. Lower lip continuous.—LIONISCUS.

Lionisci, *Fitz. & Heckle, Ann. Wien. Mus.* i. 269.

1. ACIPENSER GLABER. The Tok Schipa or Belugie.

Lioniscus glaber, *Fitz. & Heckle, Ann. Wien. Mus.* p. 270, t. 25, f. 3, t. 28, f. 5—6, 1836—40.

Huso II. seu Acipenser glaber, *Mars. Dan. Pann. Mys.* tom. iv. t. 10.

Acipenser turritus, *Mus. Vindob.*

Acipenser schypa, *Mus. Vindob. Shaw, Gen. Zool.* p. 374, 1804.

Acipenser glaber, *Heckle, MSS. Fitz. e Faun. Oesten*, j. 340.

Acipenser nudiventris, *Schypa.—Beluga, Lovet. Nov. Mag. Jest. T.* II. n. 1, 2, 3.

Acipenser Marsiglii, *Brandt & Ratz. Med. Zool. B.* ii. 8, 352, *Note.*

Acipenser schipa, *Lovet. Diagn. Pisc. ad Gem. Acipense in Nouv. Mem. Soc. Nat. Mosc. T.* iii. p. 260, t. 17, f. 3, 4, 1834 (young).

Acipenser schipa, nudiventris, *Lovet. l. c.* t. 13, f. 2, a, b. (adult).

HAB.—Caspian Sea, Lakes of Siberia. Lake Aral.

2. Dorsal-plates in front sloping, behind very high and ending in a point, and open up to the base of the point. Skin covered with small pectinated bony scales. Cirrhi fimbriated. Lower lip not continuous, or the rudiment only of a lip in each angle of the mouth.—ACIPENSER.

Acipenser, *Fitz. & Heckle, Ann. Wien. Mus.* i. 269.

Sterlatæ, sp., *Brandt. No. 1*, type Sterlatæ, *Brandt, No. 2.*

2. ACIPENSER CHINENSIS. Chinese Sturgeon.

Acipenser chinensis, *Gray, Hard. Illust. Ind. Zool.* pl. 98, f. 5, 1832. *Richardson, Rep. of the Brit. Assoc.*

Acipenser sinensis, *Gray, Proc. Zool. Soc.* pt. 2, p. 122, 1834. *Fitz. & Heckle, Ann. Wien. Mus.* p. 275, 1836—40.

HAB.—China.

a. In spirits. China. Presented by J. R. Reeves, Esq.

B. ACIPENSER GMELINI. The Kostera.

- Acipenser Gmelini, *Fitz. & Heckle, Ann. Wien. Mus.* p. 276, f. t. 25, f. 2, t. 30, f. 17, 18, 1836—40.
 Kostera, *Gmel. Reis. d. Russl.* iii. 239 (adult).
 Koster, *Gmel. Reis. d. Russl.* iii. 238 (young).
 Acipenser stellatus, β , *Gmel. Linn. Syst. Nat.* ed. xiii. t. p. iii. p. 1486.
 Acipenser dubius, *Heckle, MSS.*
 HAB.—Danube. Mus. Vienna.

4. ACIPENSER RUTHENUS. The Sterlet.

- Acipenser, *Plin. Hist. Nat. Lib.* ix. c. 17, lib. xxxii. c. 54. *Macrobr.* Sat. lib. ii. c. 12. *Cicero, Fragm. Martiul.* lib. xiii. epigr. 91. *Ovid Halient.*
 Huso IV. Sturio II., *Mars. Dan. Pann. Mys.* iv. 35, t. 11, f. 2 (old).
 Huso III. Sturio I., *Mars. Dan.* iv. p. 35, t. 11, f. 1 (young).
 Acipensere, &c., *Klein, Hist. Pisc. Miss.* iv. 13, 4, t. 1, iv. 13, No. 3.
 Acipenser, &c., *Linn. Faun. Suec.* ed. 1. p. 272.
 Sterleta, &c., *Güld. Nov. Comm. Petrop.* xvi. 533.
 Sterlet, *De Bruyn, Reiz. Mosc. Pers. en Ind.* p. 93, t. 33.
 Acipenser ruthenicus, *Linn. Mus. Adolph. Frid. I.* i. 54, t. 27, f. 2, t. 28, f. 1. *Faun. Suec.* ed. 2, p. 300.
 Acipenser ruthenus, *Linn. Syst. Nat.* ed. xii. t. 1, p. 403, m. 2.
 Der Sterlet, *Gmel. Reis. d. Russl.* B. i. S. 142, B. iii. S. 234. *Wulff. Ichth. Bor.* p. 17, n. 23. *Gmel. Linn. Syst. Nat.* ed. xiii. I. i. P. iii. p. 1486, No. 2. Der Sterljad, *Lepech. Tageb. e. Reis. versch. Prov. d. russ. Reich.* i. 154, Taf. 9, f. 1, 2. Der Sterlet, *Bloch. Oekon. Naturg. Fische Deutschl.* ed. 8, iii. 125, Taf. 89, ed. 4, B. iii. S. 98, Taf. 89. *Schneider, Bloch. Syst. Ichth.* p. 347, No. 2. *Müll. Linn. Nat. Syst.* iii. 290. Sterlet, *Shaw, Gen. Zool.* v. f. ii. p. 376, t. 160. (Copied from Bloch). Le Petit Esturgeon, *Cuv. Règ. Anim.* ed. 1, T. ii. p. 142, ed. 2, T. ii. p. 379. *Fitz. & Heckle, Ann. Wien. Mus.* i. p. 279, t. 26, f. 5, t. 30, f. 15, 16.
 Acipenser Sterletæ Ruthenus (Der Sterlet oder Stierl), *Brandt & Ratz. Med. Zool.* ii. 21, taf. 2, D.—N. 353.
 Acipenser ruthenus minor, &c., *Forst. Phil. Trans.* lvii. p. 353.
 Acipenser pygmaeus, *Pall. Zoog. Ross. Asiat.* iii. p. 102, t. 16.
 Sturio Hungarorum Ketsége, *Gross. Hist. Phys. Regn. Hung.* iii. p. 93.
 Acipenser sturio, *Schrank, Faun. Boic.* p. 305.

Acipenser strelet, *Daub. Encyl. Méth.*

L'Acipensere strelet, *Lacep. Hist. Nat. des Poiss.* t. i. p. 435.

Le strelet, *Dict. Class.* vi. p. 318.

Acipenser? *Brandt & Ratz. Med. Zool.* ii. 29, *Note* (adult).

Acipenser Kamensis, or *A. Camensis*, *Lovet. Diagn. Nouv. Mém. Nat. Mosc.* iii. p. 262, t. 16, f. 2, a, b.

Anat. Kolr. Nouv. Comm. Petrop. xvi. 511, t. 14, f. 1—5, xvii. 521, t. 10, f. 1—11. *Brandt, Med. Zool.* ii. 24, 353, 354, t. 4.

HAB.—Caspian Sea. Rivers Volga and Ural.

• 5. ACIPENSER ALEUTENSIS. The Koshadang.

Acipenser Aleutensis, *Fitz. & Heckle, Ann. Wien. Mus.* 285, 1836—40.

Acipenser rutheno affinis, *Pall. Zoog. Ross. Asiat.* iii. 107.

Acipenser? (dem. *Sterlet* ähnlich), *Brandt & Ratz. Med. Zool.* ii. S. 25, *Note*.

Koshadang-witsch. Aleutians, *Pall.*

HAB.—North Sea, near Aleutian Islands.

6. ACIPENSER MACULOSUS. Spotted Sturgeon.

Acipenser maculosus (Spotted Sturgeon), *Rafn. Ichth. Ohi.* p. 79. *Le Sueur. Trans. Amer. Phil. Soc. Phil. N. S.* iv. p. 398,

1818. *De Kay, Nat. Hist. of New York*, pt. 1 (*Zool.*), p. 347,

1842. *Fitz. & Heckle, Ann. Wien. Mus.* i. p. 285, 1836.

Acipenser (*Helopes*) *maculosus*, *Brandt & Ratz. Med. Zool.* B. ii. S. 28, *Note*. *Lovet. Nouv. Mem. Mosc.* iii. 257, 1844.

HAB.—N. America, Ohio.

a. Stuffed. N. America. From Dr. Parnell's collection.

7. ACIPENSER OXYRRHYNCHUS. Sharp-nosed Sturgeon.

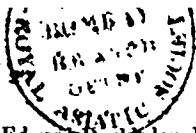
Acipenser oxyrinchus, *Rafn. Ichth. Ohi.* p. 79. *Mitch. Trans. Lit. Phil. Soc. of New York*, i. p. 462. *Le Sueur, Trans. Amer.*

Phil. Soc. Phil. N. S. i. p. 394. *Storer, Report on the Fishes of Massachusetts*, p. 178. *De Kay, Nat. Hist. of New York*, pt. 1 (*Zool.*), p. 346, pl. 58, f. 189, 1842 (young).

Acipenser oxyrrhynchus, *Cuv. Règ. Anim.* ed. 2, t. ii. p. 380, *Note*. *Lovet. Diagn. Nouv. Mém. Mosc.* iii. 257, 1844.

Fitz. & Heckle, Ann. Wien. Mus. i. p. 286, 1836—40.

Acipenser (*Helopes*) *oxyrrhynchus*, *Brandt & Ratz. Med. Zool.* ii. 3, 28, *Note*, 1843.



HAB.—N. America, Ohio.

- a. Stuffed. N. America. Presented by Edward Doubleday, Esq.
 b. Stuffed (Young). N. America. Presented by Edward Doubleday, Esq.
 c. Stuffed. Gulf of Florida.
 d. In spirits. Young. New York. From Mr. Warwick's collection.

8. ACIPENSER RUPERTIANUS. Land Sturgeon.

Acipenser ruthenus major, Forst. *Phil. Trans.* lxxiii. p. 149, 1773.
Acipenser rupertianus, De Kay, *Nat. Hist. of New York*, p. 347, pt. 1 (*Zool.*), 1842. Richardson, *Faun. Bor. Am.* pt. iii. p. 311, pl. 97, f. 1, a, b, c, 1836.

HAB.—N. America.

- a. Stuffed. N. America. Presented by Sir J. Richardson.

9. ACIPENSERES TRANSMONTANUS. Columbian River Sturgeon.

Acipenser transmontanus, Richardson, *Faun. Bor. Am.* pt. iii. p. 281, pl. 97, f. 2, a, b, c, 1836. De Kay, *Nat. Hist. of New York*, p. 347, pt. 1 (*Zool.*), 1841.

HAB.—Columbian River.

3. Dorsal-plates in front sloping, behind very high, ending in a point, and open to the base of the point. Skin covered with small and largish pectinated bony scales and larger stellated shields. Cirrhi simple. Lower lip inconspicuous, or only rudiments of a lip in either angle of the mouth.—HELOPS.

Helopes, Brandt & Ratz. *Med. Zool.* 3. Fitz. & Heckle, *Ann. Wien. Mus.* i. 264 (not Fabr.).

Sturiones, sp., Brandt & Ratz. *Med. Zool.* 349.

10. ACIPENSER STELLATUS. The Seuruga or Stellated Sturgeon.

Elops, Ovid, *Halieut.* v. 132. *Columella*, lib. viii. c. 16. *Ælian*, lib. viii. c. 28. *Plin. Hist. Nat.* lib. xxxii. c. 54.

Elops Rhodius, Varro. lib. ii. c. 6. *Gellius*, lib. vii. c. 16.

Huso VI. *Autaceus rostratus*, Mars. *Dan. Pann. Mys.* v. 37, t. 12, f. 2.

Acipenser stellatus, Klein, *Hist. Lib. Miss.* t. iv. p. 14, No. 7.

- Sueruga, &c., *Güld. Nov. Comm. Petrop.* t. xvi. p. 533.
- Die Sewrjuga, *Lepech. Tageb. e. Reis. d. versch. Prov. d. russ. Reich.* j. 156, taf. 10, f. 1, 2.
- Acipenser stellatus*, *Pall. Reis. B. I. S.* 131, & *Anhang.* s. 460, No. 20. *Gmel. Linn. Syst. Nat.* ed. 13, iii. p. 1486, No. 5. *Schneid. Bloch, Syst. Ichth.* p. 348, No. 5. (Stellated Sturgeon). *Shaw, Gen. Zool.* v. P. II. p. 378. *Soreg. Reis. Pisc. aq. dulc. Hungar.* p. 92. *Fitz. Prodr. e. Faun. n. Oesterr. Beit. z. Land. Oesterr. I.* 340.
- A. *Helops stellatus*, *Brandt & Ratz. Med. Zool.* ii. p. 3, iii. f. 3, 1833. *Lovet. Nouv. Mem. Mosc.* iii. 257, 262, pl. xviii. f. 1, 1834. *Fitz. & Heckle, Ann. Wien. Mus.* i. p. 287, t. xxvi. f. 6, t. xxx. f. 13, 14, 1836—40.
- Acipenser stellatus donensis*, *Lovet. Nouv. Mem. Mosc.* iii. p. 263. *Acipenser donensis*, t. 19, f. 1.
- Acipenser Helops*, *Pall. Zoogr. Ross. Asiat.* iii. p. 97.
- Acipenser helops*, (Le Scherg of the Germans, Sevreja of the Russians), *Cuv. Règ. An.* ed. 2, ii. p. 380.
- Acipenser*, &c., *Kram. Elenc. Pl. & Anim. Austr.* p. 383, No. 3.
- Acipenser Sturio*, *Meidin. Icon. Pisc. Austr. Dec. V.*
- Lausa Georgianis* (Kilische balyk of the Turks), *La Mottraye, Itin.* ii. p. 88.
- Acipenser Hungarorum*, *Soreg. Grossin. Hist. Phys. Regn. Hung.* iii. 88.
- L'*Acipensère étoile*, *La Cep. Hist. Nat. des Poiss.* i. p. 439. *Dict. Class. d'Hist. Nat.* vi. p. 318.
- L'*Acipensère Seurnga*, *Dict. Class. d'Hist. Nat.* vi. p. 318.
- Acipenser rostratus*, *Heckle, MSS.*
- Sturiones Ratzburgii*, *Brandt, Darst. & Besche*, iii. *Supp.* p. 351, 352, t. 1, f. 3, 1843.
- Var. Monstrosity. Acipenser stellatus oppido rara descripta*, *Lepech. Nov. Acta. Acad. Petrop.* ix. *Hist.* 35, t. A.
- Helopes stellatus*, var., *Fitz. & Heckle, Ann. Wien. Mus.* i. p. 288, 1836—40.
- Anat. Marsigli, Danub.* vi. t. 21, f. 3, 4. *Pall. Zool. Ross. Asiat.* ii. 102. *Brandt, Med. Zool.* ii. 27, 353, t. 1, f. 11.
- HAB.—Caspian Sea.
- a. Stuffed. Firth of Forth? Presented by Dr. Stark.
- B. Dorsal-plates sloping on to the sides, highest in the middle, ending in a point.
- Acipenser*, B. *Fitz. & Heckle, Ann. Wien. Mus.* i. 270.

3. Dorsal-plates in front and behind sloping, very high in the middle, ending in a point. Skin covered with larger and smaller stellated bony shields. Cirrhi simple. Lower lip not continuous, or with only the rudiments of a lip in each angle of the mouth.—
ANTACEUS.

Antacei, *Fitz. & Heckle, Ann. Wien. Mus. i. 270.*

Sturiones, sp., *Brandt & Ratz. Med. Zool. 3.*

11. ACIPENSER SCHYPA. The Schip or Smaller Sturgeon.

A. Antaceus Schypa, *Fitz. & Heckle, Ann. Wien. Mus. i. p. 293, t. xxv. f. 1. t. xxix. f. 9, 10, 1836—40.*

Schypa, &c. *Güld. Nov. Comm. Petrop. t. xvi. p. 533.*

Schip or Kostera, *Lepech. Tagen. Reis. Russ. i. 161. Gmel. Reise d. Russl. I. 142.*

Acipenser sturio, var. β . et γ ., *Pall. Zoogr. Ross. Asiat. t. iii. p. 91 (young). Var. β . Nodum adulta Kostera Rossorum, Pall. Zoogr. Ross. Asiat. t. iii. p. 96 (young).*

Acipenser Schypa, *Gmel. Syst. Nat. iii. p. 1418, No. 4. Schneider, Bloch. Syst. Ichth. p. 348, No. 6. Smaller Sturgeon, Shaw, Gen. Zool. v. p. 11, p. 374. Fitz. Prodr. e. Faun. v. Oest. Beit. Land. Oest. B. I. S. 340. Der Schyp, Brandt & Ratz. Med. B. H. S. 20, taf. 1, f. 3, A. B. C. E. S. 350.*

Acipenser Gldenstdtii, *Brandt & Ratz. Med. Zool. B. H. S. 351. Le Schype, Dict. Class. d'Hist. Nat. t. vi. p. 317.*

Acipense medius, *Heckle, MSS.*

Acipenser Tucka, *Mus. Vindob.*

HAB.—Russia.

12. ACIPENSER GULDENSTADTII. Gldenstdt's Sturgeon.

A. Antaceus Gldenstdtii, *Fitz. & Heckle, Ann. Wien. Mus. p. 297, t. 27, f. 9, t. 29, f. 7, 8, 1836—40.*

Antaceus stellaris, *Gesn. Par. A. ed Tigur. p. 1262 (figure). Johnston, Pisc. t. 28, f. 2. (Copied from Gesner). A. Stellaris or stellatus. Aldrovand, Pisc. ed Bonow. p. 364. (Copied from Gesner).*

Antaceus stellatus, *Willughby, Pisc. Tab. p. 7. (Copied from Gesner).*

Huso V. Antaceus stellatus, *Mars. Dan. Pann. Mys. iv. p. 37, t. 12.*

Acipenser, &c., *Klein, Hist. Pisc. Miss. iv. p. 14.*

- Sturio, &c., *Güld. Nov. Comm. Petrop.* t. xvi. p. 532. *Forst. Phil. Trans.* lvii. p. 352.
- Acipenser sturio, *Pall. Zoogr. Ross. Asiat.* t. iii. p. 91 t. 4. *Reisinger, Pisc. aquar. dulc. Hungar.* p. 88.
- Der Stör, *Gmel. Reis. d. Russl. B. I. S.* 139.
- Acipenser, &c., *Kram. Elench. Pl. et Anim.* p. 383, No. 3.
- Acipenser Huso, γ., *Gmel. Linn. Syst. Nat.* ed. xiii. *T. I. P.* iii. p. 1437, No. 3, 7.
- Antaceus Hungarorum (Tok.), *Gross. Hist. Phys. Regn. Hung.* t. iii. p. 81.
- Acipenser brevirostris, *Heckle, MSS.*
- Acipenser macrophthalmus, *Heckle, MSS.*
- Acipenser Kostera, *Mus. Vindob., Fitz. Prod. e. Faun. von Oest. Beitr. Sand. Oest. B. I. S.* 340.
- Acipenser pygmæus (Torpe Tok.), *Reis. Pisc. Aquar. dulc. Hungar.* p. 93 (young).
- Acipenser rostratus, *Fisch. Programm.* (young).
- Acipenser aculeatus, *Fisch. MSS.* (young). *Lovet. Nouv. Mem. Mosc.* iii. t. 19, f. 2, p. 257, 262, 1834.
- Acipenser Güldenstadti (Güldenstädtischer Stör.), *Brandt & Ratz. Med. Zool. B. ii. S.* 13, *Taf. iii. f. 2, A.—S.* 351, *Lovet. Nouv. Mem. Soc. Mosc.* iii. p. 259, t. 17, f. 1, 2. *Anat. Marsigli Danub.* vi. t. 19, f. 1, 2, 3. *Brandt & Ratz. Med. Zool.* ii. 16, 253, 254.

HAB.—Caspian Sea.

4. Dorsal-plates in front and behind sloping, very high in the middle, ending in a point. Skin rough, granulated, with blunt angled bony plates. Cirrhi simple. Lower lip not continuous, or with rudiments only of a lip in each angle of the mouth.—STURIO.

Sturio, *Fitz. & Heckle, An. Wien. Mus.* i. 270.

Helopes, *Brandt & Ratz. Med. Zool.*

13. ACIPENSER HECKELII. Heckel's Sturgeon.

- A. Sturiones Heckelii, *Brandt & Ratz. Med. Zool. B. iii. p.* 3, 1833. *Fitz. & Heckle, Ann. Wien. Mus. B. i. p.* 303, t. xxvi. f. 4, t. xxix. f. 11, 12, 1836—40.
- A. Sturiones Geckelii, *Lovet. Nouv. Mem. Mosc. B. iii. p.* 257, 1834.
- Galeus Rhodius, *Rond. de Pisc. fluv. p.* 176 (figure). *Gesn. Aquat. p.* 720. (Copied from *Rondelet*). *Aldrov. de Pisc. p.* 532. (Copied from *Rondelet*).

- Acipenser Sturio, *γ*, *Gmel. Linn. Syst. Nat.* 13 ed. iii. p. 1484, No. 1, 7.
 Acipenser Platycephalus, *Heckle, MSS.* (young).
 Acipenser Heckelii, *Fitz. MSS.*
 Acipenser Huso? *Nard. Prod. Obs. Disq. Adr. Ichth. Tic. Reg.* 1827, 4, p. 10, No. 36.
 Acipenser lutescens, *Rafin. Ichth. Ohi.* p. 79.
 Acipenser Naccari, *Bonap. MSS.* (young).
 Acipenser Sturionellus, *Nard, MSS.* (young).
 HAB.—Mediterranean.
 a. Stuffed. Adriatic. From Dr. Heckle's collection.

14. ACIPENSER ATILLUS. Common Sturgeon.

- Sturiones Sturio, *Brandt & Ratz. Med. Zool. B.* iii. p. 17, t. iii. f. 1, 1833. *Lovet. Nouv. Mém. Mosc.* t. iii. p. 257, 1834. *Fitz. & Heckle, Ann. Wien. Mus. B. i.* p. 307, t. xxvii. f. 8, t. xxviii. f. 3, 11, 1836—40.
 Attilus, *Plin. Hist. Nat.* lib. ix. c. 17. *Belon, Hist. Nat. des Estranges Poissons Marins*, fol. 13. (young). *Rondelet, de Pisc. fluviat.* p. 173. *Gesn. Aquat.* p. 126. (Copied from *Rondelet*).
 Attilus piscis Eridano peculiaris, *Belon, de Aquat. L. J.* p. 102 (young).
 Adano, *Belon, La Nature et Diversité des Poissons, L. J.* p. 94.
 Attilus Rondeletii, *Pade, Willoughby, Ichth.* p. 241, t. p. 7, f. 2. (Copied from *Rondelet*).
 Attilus verus ex Pado, *Aldrov. Pisc. L. v.* p. 563. *Jonston, Pisc.* t. 28, f. 4. (Copied from *Aldrovand*).
 Sturio seu Silurus, *Salv. Hist. Aquat. Anim.* fol. 113, t. 112, p. 31.
 Sturio Acipenser Salvian, *Willoughby, Ichth.* p. 239, t. p. 7, f. 3. (Copied from *Salvian*).
 Sturio, *Rondelet, de Pisc. Marin.* p. 410. (young).
 Sturio primus et secundus, *Gesner, Aquat.* p. 73. (young).
 Sturiones duo genera, quorum prius Venetis Morano vocatur, *Aldrov. Pisc. L. iv.* p. 526. (Copied from *Gesner*).
 Acipenser verus a Mattino, *Fox. Med. Crac. Miss. Aldrov. Pisc. L. iv.* p. 527. (young).
 Acipenser seu Sturio, 2 et 3, *Jonston, Pisc.* (young).
 Acipenser Sturio, *Jonston, Pisc.* t. 28, f. 8. (Copied from *Salvian*).
Blas. Anat. An. t. 49, f. 12. (Copied from *Salvian*). *Linn. Syst. Nat.* ed. xii. t. i. p. 103, No. 1. *Müll. Prod. Zool.*

- Dan.* p. 31, No. 322. (*Der • Stöhr.*). Bloch, *Occanom. Naturg. d. Fisch. Deuts.* ed. in 4to, t. iii. p. 89, t. 88, ed in 8vo, t. iii. p. 113, t. 83. Gmel. *Linn. Syst. Nat.* ed. 13, iii. p. 1483, No. 1. Znm. *Theile.* Bloch, *Syst. Ichth. ed. Schneid.* p. 347, No. 1. Common Sturgeon, Shaw, *Gen. Zool.* v. P. ii. p. 370, t. 159. (*Copied from Bloch.*) Acipenser Esturgeon, *Riss. Ichth. Nice*, p. 56. *Nard. Prodr. Obs. et Disq. Adr. Ichth.* p. 10, No. 35. *Fab. Nat. Fische Islands*, p. 46. Esturgeon ordinaire, *Risso. Hist. Nat. de l'Europe Merid.* t. ii. p. 166. *Cuv. Règ. An.* 1 ed. t. ii. p. 142, 2 ed. t. ii. p. 379. *Don. Brit. Fish.* pl. 65. *Flem. Brit. Anim.* p. 173, s. 30, 1828. *Jen. Man. Brit. Vert.* p. 493, s. 183. *Yarr. Brit. Fish.* 2 ed. ii. p. 475, 1841.
- Acipenser, &c., Klein, *Hist. Pisc. Miss.* iv. p. 12, 13. (young).
- Acipenser, &c., Art. *Ichth. Gen.* p. 65, No. 1. *Syn.* p. 91, No. *Linn. Faun. Succ.* 1 ed. p. 27. *Gron. Mus.* t. ii. 1. *Gron. Mus.* t. i. p. 60, No. 131. *Gron. Zooph.* p. 39, No. 140.
- Acipenser, *Linn. It. Scand.* p. 187.
- Acipenser europæus, *Linn. Faun. Succ.* 2 ed. p. 299. *Linn. Mus. Adolph. Frid.* t. i. p. 54, t. 18, Fr. 2.
- Sturgeon, *Raii, Syn. Pisc.* p. 112. *Penn. Brit. Zool.* t. iii. p. 124, t. 19 (young).
- Större oder Stoije, *Pontop. Norr. Nat. Hist.* t. ii. p. 288.
- Styria Olass, *Isl. Reis.* § 745.
- Stoijes, *Leem. de Lapp.* p. 326.
- Stohre, *Tukalla, Fisch. Nat. v. Liegt.* p. 113.
- Stoer, *Sand. Naturf.* t. xx. p. 163.
- Sturio, *Charl. Onom. Zoic.* p. 158.
- Esturgeon, *Bouss. Nat. Aquat. Carm.* p. 174. (young).
- L'Esturgeon, *Du Ham. Trait.* t. iii. s. viii. pt. 1, p. 221.
- L'Esturgeon commun, *Dict. Class. d'Hist. Nat.* t. vi. p. 315.
- L'Acipensere Esturgeon, *Laccp. Hist. Nat. Poiss.* t. i. p. 411.
- Accipenser attilus, *Rafin. Ichth. Ohi.* p. 79.
- Seba Thesaurus, t. iii. p. 101, t. 29, s. 19.
- Var. Monstrosity, Acipenser Lichtensteinii, Bloch, *Syst. Ichth. ed. Schn.* p. 348, No. 4, 69. *Brandt & Ratz. Med. Zool.* t. ii. p. ... 21, Note, t. ii. p. 1, a, b, c, 352. *Lovet. Nouv. Mém. Mosc.* t. iii. p. 257.
- HAB.—North Seas.
- a. In spirits. Young.
- b. Stuffed. English Coast.
- c. Stuffed. Young. (Old collection).

15. ACIPENSER LATIROSTRIS. The Broad-nosed Sturgeon.

Acipenser latirostris, *Parn. Trans. R. S.* xiv. pl. 4. *Parn. Fish of Forth. Wern. Mem.* vii. p. 405, pl. 39. *Yarr. Brit. Fish.* 2 ed. ii. p. 479, 1841.

HAB.—North Seas.

a. Plates of the head. Berwick-upon-Tweed. Presented by Dr. Johnston.

5. Dorsal-plates in front and behind sloping, very high in the middle, ending in a point. Skin rough, spotted over with spiny bony scales. Cirrhi compressed, ribband-shaped, clothed. Lower lip not continuous, or with rudiments only of a lip in each angle of the mouth.—Huso.

Huso, *Fitz. & Heckle, Ann. Wien. Mus.* i. 270.

Husones, *Brandt & Ratz. Med. Zool.* i. 349.

16. ACIPENSER BREVIROSTRIS. The Round-nosed Sturgeon.

Huso brevirostris, *Fitz. & Heckle, Ann. Wien. Mus.* p. 313, 1836—40.

Sturio, *Buch. Nat. Hist. Cur.* p. 236. *Forst. Phil. Trans.* lxxiii. p. 150. *Forst. Beit. zur Volk. & Länder.* b. iii. s. 259.

Acipenser Huso, *Aus New York, Mus. Bloch.*

Acipenser Sturio (Round-nosed Sturgeon). *Mitch. Trans. Phil. Soc. New York*, i. p. 461.

Acipenser brevirostrum, and varieties, *Lesueur, Trans. Amer. Phil. Soc.* (N. S. i. 390). *Rafin. Ichth. Ohi.* p. 79.

Acipenser brevirostris, *Cuv. Règ. An.* ed. 2, t. ii. p. 380, *Note.* *Brandt & Ratz. Med. Zool.* b. ii. s. 13, *Note*, taf. 1, f. 2, G. *De Kay, Nat. Hist. New York*, pt. 2 (Zool.), p. 345, 1842.

Acipenser marginatus, *Rafin. Ichth. Ohi.* p. 79.

Acipenser hudsonius, *Rafin. Ichth. Ohi.* p. 79.

Acipenser atlanticus, *Rafin. Ichth. Ohi.* p. 79.

Acipenser maculatus, *Canada, Varietas Husonis, Reis. Pisc. Aquar. Hung.* p. 91, *Note.*

Acipenser obtusirostris, *Lovet. Nouv. Mém. Mosc.* t. iii. p. 257.

HAB.—N. America.

a. Stuffed. N. America. Presented by Edward Doubleday, Esq.

17. ACIPENSER RUBICUNDUS. The Lake Sturgeon.

- Husones rubicundus; *Brandt & Ratz. Med. Zool.* ii. 3, 1833.
Lov. Nouv. Mém. Mosc. p. 257, 1834. *Fitz. & Heckle, Ann. Wien. Mus.* i. 316, 1836.
- Acipenser rubicundus, *Le Suer, Trans. Amer. Phil. Soc. (N. S.)* i. p. 388, t. 12, alt. First variety, *Le Suer, l. c.* p. 389 (young). Second variety, *Le Suer, l. c.* p. 390 (young). *Cuv. Règ. An.* 2 ed. t. ii. p. 380, *Note. Dict. Class. d'Hist. Nat.* t. vi. p. 319. *Brandt & Ratz. Med. Zool.* ii. 13, *Note. De Kay, Nat. Hist. New York*, pt. 1 (*Zool.*), p. 344, pl. 58, f. 191, 1842.
- Acipenser rubicundus, *Rafin. Ichth. Ohi.* p. 79 (old).
- Acipenser serotinus *Rafin. Ichth. Ohi.* p. 80 (old).
- Acipenser muricatus, *Rafin. Ichth. Ohi.* p. 79 (young).
- Acipenser ohioensis (Ohio Sturgeon), *Rafin. Ichth. Ohi.* p. 81 (young).

HAB.—N. America.

18. ACIPENSER MACROSTOMUS. The Big-mouth Sturgeon.

- Husones macrostomus, *Fitz. & Heckle, Ann. Wien. Mus.* i. 317, 1836—40.
- Acipenser macrostomus (Big-mouth Sturgeon), *Rafin. Ichth. Ohi.* p. 81.
- Acipenser lagenarius (Gourd-fish Sturgeon, Esturgion gourde), *Rafin. Ichth. Ohi.* p. 86.

HAB.—N. America.

19. ACIPENSER DAURICUS. The Daurian Sturgeon.

- Husones dauricus, *Brandt & Ratz. Med. Zool.* i. 3, 1829. *Lovet. Nouv. Mém. Mosc.* iii. 257, 1834. *Fitz. & Heckle, Ann. Wien. Mus.* i. 318, 1836.
- Acipenser kaluschka, *Stella, Obs. Ichth. MSS.*
- Acipenser dauricus, *Georgi, Bemerk. e. Reise. i. Russ. Reich. B. I. S.* 352. *Brandt & Ratz. Med. Zool.* ii. s. 12, *Note.*
- Acipenser orientalis, *Pall. Zoogr. Ross. Asiat.* t. iii. p. 107.
- Acipenser Schypa, *Mcnet. Cat. Rais. Obj. Zool.* 1832, 4, p. 79, *Brandt & Ratz. Med. Zool.* ii. s. 350, 352, taf. 1, a, f. 2. F.—K.
- Acipenser husoniformes, *Lovet. Nouv. Mém. Mosc.* t. iii. p. 258, t. 16, f. 1, a, b.

HAB.—Caspian Sea.

20. ACIPENSER HUSO. The Isinglass Sturgeon.

- Husiones Huso, *Brandt & Ratz. Med. Zool. i. 3, t. 1, f. 1* (young).
Supp. t. 1, f. 1, A.—E. p. 349, 352, 1829. Lovet. Nouv. Mém. Mosc. iii. 258, t. 15, f. 1, a, b, 1834. Fitz. & Heckle, Ann. Wien. Mus. i. 320, t. xxvii. f. 7, t. xxviii. f. 1, 2, 1836.
- Mario, *Plin. Hist. Nat. Lib. ix. c. 15.*
- Ichthyocolla, *Plin. Hist. Nat. Lib. xxxii. c. 7. Bell. Aquat. Lib. i. p. 104. Raii, Syn. Pisc. p. 114.*
- Ichthyocolla seu Piscis exos, *Rond. Pisc. fluv. p. 177. Ges. Aquat. p. 57. Jonston, Pisc. t. 25, f. 4.*
- Ichthyocolla Rondeletii et Bellonii, *Will. Ichth. p. 244.*
- Huso, *Albert. Magn. Lib. xxiv. de Anim. Gross. Un. Hist. Phys. Regn. Hung. t. iii. p. 62. Charl. Onom. Zoic. p. 153.*
- Antaceus Borysthenis, *Rond. Pisc. fluv. p. 187. Ges. Aquat. p. 56. Aldrov. Pisc. Lib. v. p. 564.*
- Huso seu Antaceus, *Ges. Aquat. p. 59.*
- Huso Gesneri, *Aldrovand, Pisc. p. 534.*
- Huso Germanorum, Huso Danubii, *Will. Ichth. p. 243, 7, f. 1. Jonston, de Pisc. p. 116, t. 25, f. 13. Raii, Syn. Pisc. p. 113, No. 4.*
- Huso I., Verus et genuinus, *Murs. Dan. Pann. Mys. iv. 31, t. 10, f. 1.*
- Acipenser, &c., *Klein, Hist. Pisc. Miss. iv. 14.*
- Huso, &c., *Güld. Nov. Comm. Petrop. xvi. 532.*
- Beluga, *Gmel. Alb. Forst. Phil. Trans. lvi. 354.*
- Acipenser, &c., *Kram. El. Pl. et An. Auct. p. 583, No. 1.*
- Acipenser tubercules carens, *Art. Ichth. Gen. p. 65, No. 2, Syn. p. 92, No. 2.*
- Acipenser Huso, *Linn. Syst. Nat. ed. xii. 404, No. 3. (Der Hausen). Lepech. Tageb. d. Reis. d. v. Prov. d. Russ. Reich. j. 158, t. ii. f. 1, 2. Pall. Reis. j. 131, ii. p. 339. Pall. Zoogr. Rosso. Asiat. iii. p. 86, t. 13. (Der Hausen). Bloch, Naturg. Ausl. Fisch. ed. in 4, i. p. 70, t. 129, ed. in 8, i. p. 108, t. 129. Meid. Icon. Pisc. Austr. (Copied from Bloch). Gmel. Linn. Syst. Nat. ed. xiii. j. p. 1487, No. 3. Bloch, Syst. Ichth. ed. Schneider, p. 348, No. 3. Schrank, Faun. Boic. ii. p. 306. (Isinglass Sturgeon). Shaw, Gen. Zool. v. ii. p. 375, t. 159. (Copied from Bloch). Reis. Pisc. Aquar. Dulc. Hung. p. 91. Fitz. Prodr. e. Faun. Oest. Brit. z. Land. Oest. B. J. S. 340. (Hausen).*
- Acipenser huso (Le Hausen ou Grand Esturgeon), *Cuv. Règ. An. 1 ed. ii. p. 142, 2 ed. ii. p. 380.*

Le Grand Esturgeon, *Valm. de Bomarc. Dict. d'Hist. Nat.* iv. p. 293.

Acipenser Ichthyocolle, *D'Aub. Enc. Meth.* i. *Bonat. Enc. Meth.* i. *L'Acipenser Huso*, *Lacép. Hist. Nat. des Poiss.* i. p. 422.

HAB.—Northern, Caspian, and Mediterranean Seas, Rivers Volga, and Danube.

2. SCAPHIRHYNCHUS.

Nose depressed, convex and shielded above, concave beneath. Mouth inferior, with four beards in front. Body fusiform, with five series of shields; hinder part of body depressed, covered with scales.

Scaphirhynchus, *Heck. Ann. Wien. Mus. Nat.* i. 72, 1836.

Acipenser, sp., *Rafin. Ichth. Ohi.* 80. *Gray, Proc. Zool. Soc.* ii. 122, 1834.

1. SCAPHIRHYNCHUS CATAPHRACTES. Shovel-fish.

Acipenser cataphractes, *Gray, Proc. Zool. Soc.* pt. ii. p. 122-1834.

Scaphirhynchus Rafinesquii, *Heck. Ann. Wien. Mus.* i. p. 72, t. 8, p. 326, 1836—40.

Acipenser platyrhynchus (Shovel-fish Sturgeon), *Rafin. Ichth. Ohi.* p. 80, 1820.

HAB.—N. America, River Ohio, &c.

a. Stuffed. Adult. From Mr. Salle's collection.

b. Stuffed. Half-grown. From Mr. Salle's collection.

c. Stuffed. Half-grown.

3. ? DINECTES.

Dorsal-fins two.

Dinectes, *Rafin. Ichth. Ohi.* 82, 1820.

1. DINECTES TRUNCATUS. Flat-nose Double-fin.

Dinectes truncatus, *Rafin. Ichth. Ohi.* p. 82, 1820.

HAB.—Hendersonville, *Audubon*.

4. ? PROCEROS.

Proceros, *Rafn. Ichth. Ohi.* 87, 1820.

1. PROCEROS MACULATUS. Spotted Hornfish.

Proceros maculatus, *Rafn. Ichth. Ohi.* p. 87, 1820.

HAB.—N. America, Lake Ontario.

2. PROCEROS VITTATUS. Striped Hornfish.

Proceros vittatus, *Rafn. Ichth. Ohi.* p. 87, 1820.

HAB.—N. America, Mississippi and St. Genevieve, State of Missouri.

Fam. 2. POLYODONTIDÆ.

Body without any tubercles or horny plates.

Les Polyodons, *Lacép.* 1, xii. 3. *Cuv. Règ. An.* ii. 2 ed. 380, 1829.

Brach. Nuda seu Spathulariæ, *Müll. Abh. Akad. Berl.* 1836.

Mag. Zool. & Bot. i. 405.

Spatularia, *Shaw. Zool.* 362.

Les Sturiones, p., *Cuv. Règ. An.* 2 ed. ii. 378.

Sturiona, p., *Rafn. Anal. Nat.* 92, 1815.

Prionidæ, *Swains. Lard. Encyc.* 322, 1839.

Polyodontidæ (Polyodontini), *Bonap. Syst. Ichth.* 13, 1838.

1. POLYODON.

Polyodon, *Lacép. Ichth.* i. 403, 1798. *Swains. Lard. Encyc.* 322, 1839.

Planirostra, *Rafn. Ichth. Ohi.* 83, 1820. *Lesueur, Jour. Acad. N.*

S. Philad. i. 229. *Heckle, Ann. Wien. Mus.* i. 72, 1836.

De Kay, Nat. Hist. of New York. 347.

Prionodon, *Swains. Lard. Encyc.* 191, 1839.

1. POLYODON SPATULA. Spoonbill Sturgeon.

- Squalus spatula*, *Mand. Jour. Phys.* pl. ii. n. 1774.
 Le Polyodon feuille, *Lacép. i.* 403, pl. 12, f. 3, 1798. *Dict. Sci. Nat. pl.* , 1816—30. *Cuv. Règ. An.* 2 ed. ii. 380, 1829.
Polyodon folium, *Schneid. Bloch, Syst. Ichth.* p. 457, pl. 62, f. 1, 1801. *Rich. Faun. Bor. Am.* pt. iii. 278, 1836.
Spatularia reticulata, *Shaw, Gen. Zool.* v. pt. ii. pl. 156, p. 362, 1804.
Polyodon folium (Paddle Fish), *Sill. Jour.* xii. 201, pl. , f. 1, 2, 3, 7, 1824.
Polyodon reticulatus, *Swains. Lard. Cab. Cycl.* i. 122, f. 7, ii. 322, 1838—39.
Spatularia, *Müll. Mem. Acad. Berl.* p. 74—211, 1834.
Platirostra edentula, *Rafin. Ichth. Oh.* p. 83, 1820. *Lesueur, Phil. Ac. Nat. Sci.* ii. 288, 1817—18. *Say, App. Exped.* 254. *Rich. Faun. Bor. Am.* pt. iii. 278, 1836. *De Kay, Nat. Hist. New York*, pt. i. (*Zool.*) 347, 1841.

HAB.—N. America, Ohio.

- a. Stuffed. Mississippi. From Mr. Salle's collection.
 b. In spirits. Mississippi. From Mr. Salle's collection.
 c, d, e. In spirits. Mississippi. From Mr. Salle's collection.
 f. In spirits. From Mr. Mather's collection.

Section B. CHIMÉRIA.

- Chimera, *Linn. Syst. Nat.*
 Ch. Holocephala. *Müll. Abh. Akad. Berl.* 1836. *Mag. Zool. & Bot.* i. 408.
 Les Sturioniens ou Ch. à branchies libres (part), *Cuv. Règ. An.* ii. 1817, 2 ed. ii. 378, 1829.
 Holocephali, *Brown, Index Paleon.* 636.
 Chismopnes, part., *Dum. Zool. Anal.* 105, 1806.
 Les Chimères, *Cuv. Règ. An.* 2 ed. ii. 381.
 Chismopnea Branchisnea, p., *Rafin. Anal. Nat.* 92, 1815.
 Chimeria, *Rafin. Anal. Nat.* 92, 1815.
 Chimæradæ, *Gray, Syn. B. M.* 147, 1842.
 Chimæridæ, *Swains. Lard. Encyc.* 322, 1839. *Gray, Syn. B. M.* 160, 1842. *Agassiz. Brown, Index Paleon.* 636. *Bonap. Syst. Ichth.* 13, 1838.
 Acanthorrini, *Bonap. Syst. Ichth.* 13, 1838.
 Chimæriini, *Bonap. Syst. Ichth.* 13, 1838.

Fam. 1. CHIMÆRADÆ.

Character of the order.—Synopsis of the genera.

1. *Chimæra*.—Beak conical. Dorsals nearly contiguous.
2. *Callorhynchus*.—Beak ending in a foliaceous appendage. Dorsals remote.

1. CHIMÆRA.

Beak conical. Dorsals nearly contiguous.

Chimæra, *Cuv. Règ. An.* 2 ed. ii. 382.

Chimæra, sp., *Linn.*

? *Ischydon* and *ganodus*, *Egerton.*

? *Psittacodon*, *Agassiz.*

1. CHIMÆRA MONSTROSA. Northern Chimæra.

Chimæra monstrosa, *Linn. Gmel.* 1408. *Schneider, Bloch, Syst. Ichth.* p. 349, 1801. *Bonap. Icon. Faun. Ital.* pl. 1832—41. *Swainson, Lard. Cycl.* ii. 323, f. 101, 1839. *Gaim. Voy. Pol. Poiss.* t. 20.

Roi des harengs du nord, *Daub. Enc. Meth. Bonnat. Pl. Enc. Meth.* i. *Faun. Suec.* 294. *Gunn. Act. Nid.* ii. 270, t. 5, 6. *Müll. Prod. Zool. Dan.* p. 38, n. 320. *Olaff. Isl.* i. 192. *Bloch, Pl.* 124. *Mus. Ad. Fr.* i. 53, t. 25.

Chimæra argenteus, *Linn. Ascan. Ic. Rer. Nat.* t. 15. (mas.)

Galeus acanthius Clusii exoticus, *Will. Ichth.* p. 57, t. B, 9, f. 9. *Rai.* p. 23, n. 15. *Gesn. Aquat.* p. 877. *Icon. An.* p. 153.

Simia marina, *Jonston, Pisc.* p. 29, t. i. f. 6.

Centrina vera, *Simia marina dicta*, *Aldroy. Pisc.* p. 402, 403, 405.

Vulpecula, *Strøm sændm.* p. 289.

La Chimère Arctique, *Lacép.* i. p. 392, pl. 19, f. 1 (female), 1798. *Cuv. Règ. An.* 2 edit. ii. 382, 1829.

Northern Chimæra, *Shaw, Gen. Zool.* v. pt. ii. pl. 157 (male), 1804.

HAB.—North Sea.

a. In spirits. Male.

2. CHIMÆRA COLLIEI. Colley's Chimæra.

Chimæra Collicii, *Bennett, Beech. Voy.* p. 71, pl. xxiii. 1839.

HAB.—Northern parts of the Pacific Ocean.

2. CALLORHYNCHUS.

Beak ending in a foliaceous appendage. Dorsals far apart.
Callorhynchus, *Gronov. Mus.* 59. *Cuv. Règ. An.* 2 edit. ii. 382.
Chimæra, sp., *Gmel. Syst. Nat.* i.

1. CALLORHYNCHUS ANTARCTICA. Southern Chimæra.

Callorhynchus antarctica, *Gron.* pl. 4, f. 1, 2. *Swainson, Lard.*
Cab. Cycl. ii. 323, 1839.

Chalgua Achagual, in Araucanian.

Chimæra callorhynchus, *Gmel. Syst. Nat.* i.

Roi des harengs du sud, *Daub. Enc. Meth.* i. *Bonn. Pl. Enc.*
Meth. i.

Callorhynchus, *Gronov. Mus.* 59, n. 130, t. 4.

Pejegallo, *Frez. It.* i. 211, t. 17, f. 4.

Elephant Fish, *Ellis, Cook's First Voyage.*

Poisson coq., *Molina, Essai sur l'Hist. Nat. du Chili*, 207.

Le Chimère Antarctique, *Lacép.* i. pl. 12 (female), p. 400, 1799.
Cuv. Règ. An. 2 edit. ii. 382, 1829.

Chimæra Australis, Southern Chimæra, *Shaw, Gen. Zool.* v. pt. 11,
 pl. 158 (male), 157 (female), p. 368, 1804.

HAB.—Southern Ocean.

a. In spirits. Australia. Presented by the Zoological Society of
 London.

Sub-order II. TREMATOPNEA.

Gills fixed by their outer edge to the intervals between the lateral
 branchial opening.

Trematopnes, *Dum. Zool. Anal.* 101, 1806.

Chondropterygiens à branches fixes, *Cuv. Règ. An.* 2 ed. ii. 383.

Trematopnea, part (*Plagiostomia* and *Cylostomea*), *Rafin. Anal.*
Nat. i. 1815.

Section C. PLAGIOSTOMIA.

Plagiostomes, *Dum. Zool. Anal.* 103, 1806.

Plagiostomia, *Rafin. Anal. Nat.* 93, 1815.

Plagiostomata, Müll. *Abh. Akad. Berl.* 1836. *Mag. Zool. & Bot.* i. 405.

Pisces cartilaginei, Ray, *Syn. Pisc.* 28.

Selaciens (Plagiostomes) Cuv. *Rég. An.* 2 ed. ii. 383.

Selaca (Selaque), Blain. *Bull. Soc. Phil.* 112, 1826.

Selacha (Plagiostoma), Bonap. *Selach. Fulula Analytica*, 1838, 4to.

Plagiostomi, De Kay, *Nat. Hist. of New York*, 348.

M. De Blainville (*Bull. Soc. Phil. & Jour. de Phys.* 260, 1816), proposed to form the flat-bodied cartilaginous fish into a sub-order, which he called *Selaca*, and divided it into three genera:—1. *Raia*.—2. *Squatina*.—3. *Squalus*.

Müller and Henle (*Mag. Nat. Hist.* ii. 1838) separate the *Plagiostomi* into two orders, 1 Skates (*Raie*), 2 Sharks (*Squali*); the former characterized by the existence of a peculiar cartilage arising from the nasal part of the skull and extending towards, and even meeting to form the anterior part of the crest of the pectoral-fin: there is no trace of this cartilage in the sharks.

SYNOPSIS OF FAMILIES.

1. *Squali*.—Skull without any frontal cartilage; branchial openings lateral.

1. *SCYLLIADÆ*.—Body elongate, subcylindrical; pectoral-fins moderate; lateral part of the dorsal-fins over or behind the abdominal-fin.

2. *SQUALIDÆ*.—Body elongate, subcylindrical; pectoral-fins moderate; lateral dorsal one or two first before the abdominal-fin.

3. *SQUATINADÆ*.—Body rather depressed; pectoral-fins very large.

2. *Raia*.—Skull with a peculiar frontal cartilage from the nasal, extending in front and meeting, forming the front crest of the pectoral-fin; branchial-opening inferior.

4. *PRISTISIDÆ*.—Body elongate, gradually tapering into the tail.

5. *RAIDÆ*.—Body much depressed, broad, abruptly ending in a slender tail.

Sub-section I. SQUALI.

Gill-openings lateral; eyelids free; supplementary humeral girdle incomplete; head cartilage none.

Squalus, *Linn. Syst. Nat.*

Antacea, *Rafin. Anal. Nat.* 93, 1815.

Les Squales (*Squalus*), *Cuv. Règ. An.* 2 ed. ii. 385.

Les Marteaux (*Zygæna*), *Cuv. Règ. An.* 2 ed. ii. 394.

Squali. *Müll. Abh. Akad. Berl.* 1836. *Mag. Zool. & Bot.* i. 403.

Müll. & Henle, Mag. Nat. Hist. ii. 1838. *Plagiost.*

Squalidæ, *Bonap. Selac. Tab. Anal.* 1838. *Swains. Lard. Encyc.*

191, 312, 1839. *Gray, Syn. B. M.* 148, 150, 1842. *De Kay,*

Nat. Hist. of New York. 348.

Squatina and *Squalus*, *Blain. Bull. Soc. Phil.* 121, 1816.

Pisces Cartilaginei longi, *Ray, Syn. Pisc.* 18.

Linnæus (*Syst. Nat.* i. 397) formed the sharks into three sections:—1. Dorsal-fin spinous, anal-fin none.—*S. Acanthias*. 2. Dorsal-fin unarmed; anal-fin distinct; teeth acute.—*S. Zygenæ*. 3. Teeth granulated.—*S. mustellus*.

Schneider (*Syst. Ichth.* 1801) divides them thus:—1. Spiracle and anal-fin distinct.—*S. canicula*. 2. Spiracles none; anal distinct.—*S. Zygenæ*. 3. Spiracles distinct; anal none.—*S. centrina*.

Rafinesque (*Caratteri Nuovi Generi*, 1810, 8vo.) described and figured the following new genera and species of sharks:—1. *Carcharias Taurus*, 10, t. 14, f. 1.—2. *Delatias sparophagus*, 10, t. 13, f. 4.—3. *D. nocturnus*, 11, t. 14, f. 3.—4. *Tetroras angivora*, 11.—5. *Isurus oxyrhynchus*, 12, t. 13, f. 1.—6. *Cerictius macrourus*, 12.—7. *Alopias macrourus*, 12.—8. *Heptranchias cinereus*, 13.—9. *Galeus melastomus*, 12.—10. *Squalus uyato*, 12, t. 14, f. 2.—11. *Hexanchus grissus*, 12.—12. *Etmopterus aculeatus*, 14, t. 13, f. 3. In his '*Analyse de la Nature*,' 1815, he quoted these genera, and added the following, but without characters or quoting types:—13. *Sphyrnias*.—14. *Oxynotus*.—15. *Squalina*, *Dum.*—16. *Pristes*, *Lath.*—17: *Anodon*, *Lac.*

M. De Blainville (*Bull. Soc. Phil.* 121, 1816, and *Jour. de Phys.* 260, 1816) divides the Squali in nine sub-genera, thus:—1. *Scyliorhinus* (*canicula*).—2. *Echinorhinus* (*spinosus*).—3. *Monopterhinus* (*griseus*).—4. *Galeorhinus* (*mustelus*).—5. *Acanthorhinus* (*ucantheus*).—6. *Heterodontes* (*Philippii*).—7. *Carcharhinus* (*Lamia*).—8. *Cestrorhinus* (*Zygæna*).—9. *Cetorhinus* (*Gunneri*).

Cuvier (*Rég. An.* 385, 1817, and 2 ed. 1829) divides these animals in the following manner:—I. *Squalus* (Linn.), containing

I. (*Les Scyllies*).

II. *Les Squales*, which are sub-divided as in Schneider, thus: a. *without spiracles and without anal-fins*. 1. *Carcharias*.—2. *Lamna*. b. *with spiracles and anal-fins*.—3. *Galeus*.—4. *Mustelus*.—5. *Notidanus*.—6. *Selache*.—7. *Cestraciens*. c. *with spiracles, but without anals*.—8. *Spinax*.—9. *Centrina*.—10. *Scymnus*.—11. *Zygæna*.

III. *Squatina*.

IV. *Pristis*.

M. Charles Buonaparte (*Selachorum Tabula Analytica*, 1838, 4to.) divides the family *Squalidæ* in the following manner:—

1. *Squalidæ anomalæ*.—*Body depressed. Pectoral-fins very large.*—*Squatina*.

2. *Squalidæ veræ*.—*Body elongate, roundish; pectoral-fins congruous.*

* *Anal-fins none; spiracles distinct; nictitant membrane none.*

1. *Spinacini*.—*First dorsal spined; teeth compressed, sharp-edged.*—*Acanthias*.—*Spinax*.—*Centrina*.—*Centrophorus*.

2. *Scymnini*.—*Dorsals armless; teeth triangular, of maxilla, in many series; of mandibles, in one or two series, and a broad base.*—*Lepidorhinus*.—*Scymnus*.—*Læmargus*.—*Echinorrhinus*.

** *Anal distinct; nictitant membrane none; spiracles none, or very small.*

3. *Notidianini*.—*Dorsal, one.*—*Heptoranchias*.—*Notidians*.

4. *Trichoghidini*.—*Dorsals, two; first before, second behind the ventrals and before the anal; gill-slits very large, all before the pectoral; fins large; upper caudal-lobe elongate.*—*Triglochis*.

5. *Lamnini*.—*Dorsals, two; second opposite the small anal; gill-slits very large, all before the pectorals; tail lunate.*—*Selache*.—*Carcharodon*.—*Oxyrhina*.—*Lamna*.

6. *Alopiadini*.—*Dorsals, two; hinder over the pectorals; upper caudal-lobe very long; gill-slits small; teeth simple.*—*Alopias*.—*Rhinizodon*.

- **Anal distinct; nictitant membrane distinct; hinder gill-slit over the pectorals; second dorsal opposite the anal; dorsal unarmed.*
7. Squalini.—*Teeth compressed, triangular, acute; spiracles none, or small.*—Sphyrna.—Squalus.—Thalassorhinus.—Scoliodon.—Galeocerdo.—Physodon.—Loxodon.—Galeus.
8. Triænodontini.—*Teeth acute, denticulated on each side; spiracles small.*—Triakis.—Leptocharias.—Triænodon.
9. Mustelini.—*Teeth small, blunt; spiracles large.*—Mustelus.
10. Cestracionini.—*Anal distinct; nictitant membrane none; spiracles large; gill-slits small; hinder over the pectorals; dorsals armed with spines.*—Cestracion.
11. Scyllini.—*Anal distinct; nictitant membrane none; spiracles large; dorsals both nearly over the ventrals; teeth small, acute, denticulated.*—Stegistoma.—Uglismostoma.—Grassorhinus.—Hemiscyllium.—Orectolobus.—Pristidurus.—Scyllium.—? Rhinaodon.

Dr. S. Müller and Henle (*Mag. Nat. Hist.* ii. 1838) published an outline of their system. He divides the sharks into five divisions, thus:—

Division I. *Scyllia*, containing 1. Scyllium.—2. Pristiurus.—3. Chiloscyllium.—4. Hemiscyllium.—5. Crossorhinus.—6. Ginglymostoma.—7. Stegostoma.

II. subdivided thus: a. *with membrana nictitans.* a. *without spiracles.* a. *teeth flat, sharp-edged, serrated, or smooth.* 1. Carcharias.—2. Scoliodon.—3. Zygæna. b. *teeth pointed with a lateral denticle-like tooth of Scyllium.* 1. Triænodon.—2. Leptocharis. B. *with spiracles.* a. *teeth flat, part serrated, or not serrated.* 1. Galeocerdo.—2. Loxodon.—3. Galeus. b. *teeth pointed, as in Scyllium.* 1. Triakis. c. *teeth pavement-like.* 1. Mustelus.—2. No nictitating membrane (Lamnoidea). 1. Lamna.—2. Oxyrhina.—3. Carcharodon.—4. Selache.—5. Rineodon. b. Trichoghis.—c. Alopecias.—d. Cestracion.

III. Notidanus, Cuvier. 1. Hexanchus.—2. Heptanchus.

IV. a. *Acanthorhinus.* 1. Acanthias.—2. Spinax.—3. Centrina.—4. Centrophorus. b. *Scymnus.* 1. Scymnus.—2. Læmargus.—3. Echinorrhinus.

V. Squatina.

Fam. 1. SCYLLIDÆ.

Have spout-holes and no nictitating membrane, five gill-openings which stand either all at equal distances from each other, or the two last are so approximated that the fifth appears within the fourth. The last gill-opening is placed over the root of the breast-fin. All possess a furrow at the corner of the mouth and an upper labial cartilage. The teeth have a middle point, and from one to four radical toothlets on either side. The breast-fins are, with few exceptions, broader in proportion to their length than in the rest of the sharks. The anal-fin stands either before, beneath, or behind the second back fin. The tail-fin is extended lengthways, not forked, truncated or rounded at the end, with or without a trace of an under lobe, but provided with a notch more or less deep near the end on the under side. No fish of this species has a caudal-fin. They are all characterized by a lively colour or some peculiarity of design in their markings. The gut-valve is spinal. This family seems to contain the egg-laying or spawning sharks. The eggs are more or less like those of the rays.

Squali, § 1. Scyllia, Müll. & Henle, *Mag. Nat. Hist.* ii. 1838.
Plagiost.

Scyllium, *Cuv. Règ. An.* 2 ed. ii. 1817.

Scylliorhinus, *Blainv. Bull. Soc. Phil.* 121, 1816. *Jour. de Phys.* 263, 1816.

Scyllini, *Bonap. Selach. Tab. Anal.* 14, 1838.

a. *Anal-fin nearer the head than the second dorsal.*

1. SCYLLIUM.

The first back-fin between the belly-fin and anal: the second between the anal and tail-fin. Spiracles close behind the eyes. The gill-openings are placed all at equal distances from each other, the hindmost pair over the breast-fin. Snout short and blunt; nostril near the mouth sometimes sending a furrow to the edge of the upper lip. The upper nasal-flap surrounds the nostril in such a manner that for the most part there remains a small round opening on the outer side. The nasal-flaps of both sides are separated from each other by a larger or smaller dilating middle piece, or they pass across into one another. In some, we find in the middle of the external surface a rudimentary beard, which at times projects beyond

the under edge of the flap. On the under edge of the nostril some have a smaller flap, similar to that which borders the upper edge. The mouth is bent; the teeth have a middle point, and one or two radical toothlets on each side. In most species the back fins are attached over the claspers. Scales three-pronged. The eggs of this genus are like those of the rays.

Scyllium. Müll. & Henle, *Mag. Nat. Hist.* ii. 1838. *P'agiost. Bonap. Selach. Tab. Anal.* 11.

Scyllium, sect.* Cuv. *Rég. An.* ii. 386.

Poroderma, Smith, *Proc. Zool. Soc.* 1837.

Scylliorhinus, sp., Blainv.

Catulus, sp., Smith, *Proc. Zool. Soc.* 1837.

1. SCYLLIUM EDWARDSII. Edwards' Shark.

Scyllium Edwardsii, Cuv. *Rég. An.* 386. Müll. & Henle, *Plag.* p. 4, pl. 1841.

Greater Cat-fish, Edw. iii. t. 289, 1764.

Squalus pictus, Licht. *Verz. der Double. Zool. Mus.* p. 111.

Catulus Edwardsii, Smith, *Proc. Zool. Soc.* 1837.

HAB.—South Africa.

a, b, c. Stuffed. Cape of Good Hope. From Dr. Andrew Smith's collection.

2. SCYLLIUM PICTUM. Painted Shark.

Scyllium pictum, Müll. & Henle, *Plag.* p. 4, 1841.

HAB.—S. Africa.

a. Stuffed?

This appears to be only a variety of Sc. Edwardsii, Cuv. Müll. & Henle, *Plag. Nacch.* p. 189.

3. SCYLLIUM MACULATUM. Tiger Shark.

Scyllium maculatum, Gray, *Hard. Ill. Ind. Zool.* i. pl. 98, f. 1, 1832. Müll. & Henle, *Plag.* p. 5, 1841. *Rich. Rep. Brit. Assoc.* p. 193, 1845.

Scyllium pardus, Temm. *Mus. Leyden.*

Scyllium marmoratum, Benn. *Life of Raffles*, p. 693, 1830.

Catulus marmoratus, Smith, *Proc. Zool. Soc.* 1837.

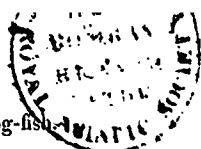
HAB.—Indian Ocean.

a. In spirits. India. Presented by General Hardwicke.

b. In spirits. From Mr. Argent's collection.

c. In spirits. Presented by the Zoological Society of London.

d. Stuffed. Bramble Bay. Presented by the Earl of Derby.



4. SCYLLIUM CANICULUM. Little Dog-fish.

- Scyllium canicula*, *Cuv. Règ. An.* 2 ed. ii. 386. *Bonap. Faun. Ital.* vii. t. Müll. & Henle, *Plag.* 6.
- Galeus stellatus major*, *Belon.* 73. (Copied from *Gesner*, 723).
- Canicula aristoletis*, *Rondel.* 380. (Copied from *Gesner*, 198). *Johnst.* t. 8, f. 2.
- Catulus, Salviani*, 137, t. 46. (Copied from *Aldrovand*, 396). *Will.* B. 4.
- Catulus minor vulgaris*, *Ray, Syn.* 22.
- Galeus capite rostroque brevissimis*, *Klein. Misc.* iii. 10.
- Squalus dorso vario inerini*, &c., *Gronov. Mus.* ii. 199. *Zooph.* 32, n. 144.
- Squalus catulus*, *Brunnich*, 5, n. 4. *Müll. Prod.* 37. *Bloch*, t. 114. (Copied from *Shaw*, t. 151, *E. M.* f. 18). *Gmel. Syst. Nat.* 1490, 8. *Bloch, Schneid.* 127. *Nardo. Prod.* n. 16. *Donov.* iii. t. 55.
- Squalus dorso vario*, &c., *Artedi, Gen. Pisc.* 511. *Syn.* 97. (male).
- Squalus ex rubro varius*, &c., *Artedi, Gen. Pisc.* 511. *Syn.* 97. (female).
- Spotted shark, *Penn. Brit. Zool.* t. 15.
- Small-spotted Dog-fish, *Yarr. Brit. Fish.* ij. 567.
- Grande roussette, *Duham.* t. 22.
- La roussette, *Brouss.* 650.
- La Squale rochier, *Lacép.* i. t. 10, f. 1.
- Squalus stellaris*, *Bloch, Schneid.* 128.
- Squalus caniculus*, *Risso, Ichth.* 29. *Hist. Nat.* 116.
- Squalus canicula*, *Nilson, Prod.* 113. *Jenyns, Brit. An.* 495.
- Scyllium catulus*, *Fleming*, 165.
- Scylliorhinus caniculus*, *Blain. Bull. Soc. Phil.* 1816, 121. *Jour. de Phys.* 1816; 263.
- Scylliorhinus catulus*, *Blainv. Faun. Fr.* 69.
- Tollo canicula; *Cornide*, 131.
- Scyllium canicula*, *Parn. Ichth.* 247, 1838. *Smith, Proc. Zool. Soc.* 1837.
- HAB.—European Ocean.
- a. In spirits. Dalmatia. From Dr. Heckle's collection.
- b. In spirits.
- c. Stuffed.
- d, e, f. Stuffed. English Coast.
- g. Stuffed. Firth of Forth, Scotland. From Dr. Parnell's collection.
- h, i. Stuffed. Europe. From Dr. A. Smith's collection,

j. Stuffed.

k—o. Stuffed. Mediterranean. From Mr. Argent's collection.

p. Stuffed,

q. Stuffed. Mus. Sloane.

5. SCYLLIUM CATULUS. Larger Dog-fish.

Scyllium catulus, *Cuv. Rêg. An.* 2 ed. ii. 386.

Galeus stellatus minor, *Belon.* 74.

Canicula saxatilis, *Rond.* 383. (Copied from *Gesner*, 199).

Catulus major, *Salviani*, 138, t. 45. (Copied from *Aldrovand*, 390. *Will. B.* 4). *Jonst.* t. 8, f. 1. *Ray, Syn.* 22.

Galeus cinereus, *Klein, Misc.* ii. 10.

Squalus dorso vario mermi, *Gronov. Mus.* ii. 200. *Zool.* 32, n. 145.

La Squale roussette, *Lacép.* i. t. 9, f. 2.

Squalus canicula, *Brunnich*, ii. n. 10. *Bloch*, t. 112. (Copied from *Shaw, Zool.* 152. *E. M. f.* 17). *Bloch, Schneid.* 126.

Chat Rochier, *Duham.* t. 22, f. 2, 3? *Brousson*, 651.

Squalus stellaris, *Gmel. Syst. Nat.* 1491. *Risso, Ichth.* 31. *Hist. Nat.* 116. *Jenyns, Brit. An.* 496.

Squalus cinereus pinnis ventralibus discretis, *Artedi, Gen. Pisc.* 512. *Syn.* 97.

Scyllorhinus stellaris, *Blainv. T. F.*

Rock Dog-fish, *Yarr. Brit. Fish.* ii. 373.

Scyllium catulus, *Parn. Ichth.* 250, 1838.

Scyllium stellare, *Smith, Proc. Zool. Soc.* 1837. *Bonap. Faun. Ital.* vii. t. *Flem. Brit. An.* 165.

HAB.—European Seas.

a. In spirits. Dalmatia. From Dr. Heckle's collection.

b, c. Stuffed. Mediterranean. From Mr. Argent's collection.

d. Stuffed. Europe. From Dr. A. Smith's collection.

e. Stuffed. Sussex. Presented by — Cocks, Esq.

f. Stuffed. Firth of Forth, Scotland. From Dr. Parnell's collection.

g. In spirits. Young.

6. SCYLLIUM BURGERI. Burger's Dog-fish.

Scyllium Burgeri, *Müll. & Hentle, Plag.* 8.

HAB.—Japan.

7. SCYLLIUM LIVIUM. Livium Dog-fish.

Scyllium livium, *Smith, S. A. Quart. Journ.* 1831. *Proc. Zool. Soc.* 1837. *Müll. & Henle, Plag.* 8, 1842.

HAB.—Cape of Good Hope.

8. SCYLLIUM CAPENSE. Cape Dog-fish.

Scyllium capense, *Smith, Proc. Zool. Soc.* 1837. *Müll. & Henle, Plag.* 10; 1841.

HAB.—Indian Ocean.

a—h. Stuffed. Cape Seas. From Dr. A. Smith's collection.

9. SCYLLIUM AFRICANUM. African Dog-fish.

Scyllium Africanum, *Cuv. Règ. An.* 2 ed. ii. 386. *Griff. An. Kingd.* x. t. 25. *Müll. & Henle, Plag.* 12. *Smith, Illust. Zool. S. Africa.* pl. xxv. f. 1, 1849 (female).

Squalus striatus, *Forst. MSS.* iv. 79.

Le galonné, *Brouss. Ichth.* 659, 9.

Squalus Africanus, *Linn. Syst. Nat.* 1494, 20. *Bloch, Schneid.* 129.

Squalus vittatus, *Shaw, Nat. Misc.* 346.

Squale galonné, *Lacép.* i. 251.

Poroderma Africanum, *Smith, Proc. Zool. Soc.* 1837.

Scylliorhinus Africanus, *Blainv. Bull. Soc. Phil. Jour.* 121, 1816.

HAB.—Indian Ocean.

a. In spirits. Cape of Good Hope.

b. Stuffed. Cape Seas. Presented by J. E. Gray, Esq.

c. Stuffed. Cape Seas. From Dr. A. Smith's collection.

d. Stuffed. Cape Seas. (Bleached, taken out of spirits).

10. SCYLLIUM PANTHERINUM. Pantheridine Dog-fish.

Scyllium pantherinum, *Smith. Müll. & Henle, Plag.* 13, 1841. *Smith, Illust. Zool. S. Afr.* pl. xxv. f. 3, 1849 (female).

Scyllium Leopardinum, *Mus. Leyden.*

Poroderma pantherinum, *Smith, Proc. Zool. Soc.* 1837.

HAB.—Indian Ocean.

a. Stuffed. (The specimen described and figured in the 'Illustrations of the Zoology of South Africa'). Cape Seas. From Dr. A. Smith's collection.

11. SCYLLIUM VARIEGATUM. Variegated Dog-fish.

Scyllium variegatum, *Smith. Müll. & Henle, Plag.* 14, 1841.

Smith, Illust. Zool. S. Afr. pl. xxv. f. 2, 1849 (female).

Poroderma variegatum, *Smith, Proc. Zool. Soc.* 1837.

HAB.—Indian Ocean.

a. Stuffed. (The specimen described and figured in the 'Illustrations of the Zoology of South Africa'). Cape Seas. From Dr. A. Smith's collection.

2. PRISTIDURUS.

This genus has all the characters of *Scyllium*. It is distinguished by its elongated snout, and by a row of small, flat prickles on the upper rim of the tail-fin, which represent a kind of saw. The tail as in *Scyllium*, but with a trace of an under lobe. The second back-fin over the hinder part of the anal. The nostrils have a short, skinny, triangular flap. The eggs are smooth, as in *Scyllium*.

Pristidurus, *Bonap. Selac. Tab. Anal.* 14, 1838.

Pristiurus, "Bonap." *Müll. & Henle, Mag. Nat. Hist.* ii. 1838.

Plagiost.

Scyllium, sp. *Risso. Bonap. Faun. Ital.*

Scylliorhinus, sp. *Blainv. Bull. Soc. Phil. Jour.* 121, 1816. *Faun.*

Fr.

Galeus, sp., *Rafin. Caratt.*

1. PRISTIDURUS MELANOSTOMUS. Black-mouth Shark.

Pristiurus melanostomus, *Bonap. Faun. Ital.* 15. *Müll. & Henle, Plag.* 15.

Squalus catulus, *Gunner, Drouth.* ii. 216, t. 1, 2.

Röd haae, Ascan. t. 38.

Galeus melastomus, *Rafin. Caratt.* 13.

Squalus prionurus, *Otto. Consp.* 5.

Scyllium Artedi, *Risso, Journ. de Phys.* t. xii. 242. *Hist. n. t. iii.*

117, sp. 4. *Ichth.* 2 ed. f. 5.

Squalus (Scyllium) annulatus, *Nils. Prodr.* 114.

Black-mouthed Dog-fish, *Yarr.* ii. 375.

Scylliorhinus Delarochianus, *Blainv. Faun. Fr.* 74, *Sp.* 10.

Scylliorhinus melastomus, *Bonap. Fasc.* vii.

Pristidurus melanostomum, *Bonap. Selach. Tab. Anal.* 11.

HAB.—Mediterranean and North Seas.

** Anal behind the second dorsal.

Scyllium, § 2, *Cuv. Règ. An.* 2 ed. ii. 386.

3. HEMISCYLLIUM.

The nostrils reach within the mouth. The nasal flaps of both sides are dissevered from one another; the outer one is very large, and the inner one possesses a beard. Mouth oblique, transverse, nigh the fore end of the snout. Plaits exist at the corner of the mouth, and the under ones do not unite in the middle line. Teeth three-lobed. Spiracles large, longitudinal, under the hinder half of the eyes. The gill-openings are all equally distant from each other, the last one over the breast-fin. Both back-fins stand over the belly-fin and before the anal; the anal-fin close upon the tail-fin; this has the usual notch at the hinder end, and no under lobe.

Hemiscyllium, *Müll. & Henle, Mag. Nat. Hist.* ii. 1838. *Plagiost. Bonap. Selac. Tab. Anal.* ii. 1838.

Scylliorhinus (§ 2), *Blainv. Bull. Soc. Phil.* 1816, 121. *Jour. de Phys.* 1816, 263.

1. HEMISCYLLIUM OCELLATUM. Eyed Shark.

Hemiscyllium ocellatum (Ocellated Shark), *Müll. & Henle*, 16.

1841. *Rich. Voy. Erebus & Terror*, 43, pl. 28, f. 8 (scale).

Scylliorhinus ocellatus, *Blainv. Bull. Soc. Phil.* 1816, 121.

Squalus ocellatus, *Banks*. (fig.) *MS.* 56.

L'Éille, *Brouss. Hist. de l'Acad. Roy. des Sci.* 660, n. 11, 1780.

Squalus ocellatus, *Gmel.* 1494, 21.

Le Squale oille, *Lacép.* i. 253.

Squalus ocellatus, *Shaw, Nat. Misc.* 161. *Griff. An. Kitgd.* t. x. t. 3.

HAB.—Southern Ocean.

a, b. In spirits. Sunday Island. Presented by J. B. Jukes, Esq.

c. Stuffed. South Sea.

2. HEMISCYLLIUM TRISPECULARE. Tri-ocellated Hemiscyllium.

Hemiscyllium trispeculare, *Rich. Icones Piscium*, 5, pl. 1, f. 2.

Lond. 1843. *Voy. Erebus & Terror*, 43, pl. 28, f. 3—7, 1845.

HAB.—South Sea.

a. In spirits. North-west Coast of Australia. Presented by Sir J. Richardson, M.D.

4. CHILOSCYLLIUM.

Snout blunt; the nostrils are cleft up to the mouth; the nasal-flaps of both sides not connected, always carrying a beard. On the outer border of the nostrils there is a considerable skirt-like flap, which is continued into the upper corner fold of the mouth. The genus is characterized by a broad, skinny under-lip, which is separated by a transverse furrow from the outer skin of the throat; the elongated under corner fold of the mouth springs therefrom, and is attached in the middle. Mouth slightly curved. Teeth pointed, with one or two radical toothlets on each side. Spiracles longitudinal, close behind the eyes. A small knob springs forward from the hinder edge of the spout-hole. The fourth and fifth gill-opening are close together. Position of the back-fins, as in *Hemiscyllium*, both are placed before the anal; the foremost behind the belly-fin. The breast and belly-fins are always rounded. The anal and tail-fins are also rounded at the end; the anal without a fore-corner is rounded beneath and pointed behind, and they are close to each other. The under edge of the tail-fin is convex.

Chiloscyllium, Müll. & Henle, *Mag. Nat. Hist.* ii. 1838. *Plagiost. Orectolobus*, Bonap. *Selac. Tab. Anal.* ii. 1838.

Scylliorhinus (§ 2), sp., *Blainv. Bull. Soc. Phil.* 1816, 321. *Jour. de Phys.* 161, 263.

Scyllium, sp., *Bennett. Gray. Kuhl.*

1. CHILOSCYLLIUM PLAGIOSUM. Striped Bamboo Shark.

Chiloscyllium plagiosum, Müll. & Henle, *Plag.* 17, 1841. *Rich. Rep. Brit. Assoc.* 194, 1846. *Smith, Proc. Zool. Soc. Sep.* 1837.

Scyllium plagiosum, *Bennett, Life of Raffles*, 693, 1830.

Scyllium ornatum, *Gray, Hard. Ill.* t. 98, f. 2, Var. 2, *M. & H. Icon. Reeves*, 252. *Hard. Cart.* 45, Var. 3, *M. & H. Russ. Fish. Coromand.* pl. 16.

Orectolobus plagiosum, *Bonap.*

Orectolobus ornatum, *Bonap. Selac. Tab. Anal.* ii.

HAB.—Indian Ocean.

a. In spirits. Young. China Seas. Presented by J. R. Reeves, Esq.

b. Stuffed. China Seas. Presented by Gen. Hardwicke.

c. Stuffed. Cape Seas. From Dr. A. Smith's collection.

2. CHILOSCYLLIUM PUNCTATUM. Dotted Bamboo Shark.

Chiloscyllium punctatum, Müll. & Henle, *Plag.* 18.

Scyllium punctatum, Kuhl et v. Hasselt.

HAB.—Java.

3. CHILOSCYLLIUM TUBERCULATUM. Tuberculated Bamboo Shark.

Chiloscyllium tuberculatum, Müll. & Henle, *Plag.* 19.

Squalus tuberculatus, Bloch, *Schneid.* 137.

Squale dentelé, Lacép. i. t. 11, f. 1, p. 281.

Scylliorhinus tuberculatus, Blainv. *Bull. Soc. Phil.* 1836, 121.

HAB.—Indian Ocean.

a. Stuffed. Cape Seas. From Dr. A. Smith's collection.

b. In spirits. China. Presented by Sir J. Richardson.

c. In spirits. Young. From Mr. Frank's collection.

4. CHILOSCYLLIUM OBSCURUM.

Chiloscyllium obscurum.

HAB.—Indian Ocean.

a. In spirits. Moluccas. From Mr. Frank's collection.

5. CHILOSCYLLIUM GRISEUM. Gray Bamboo Shark.

Chiloscyllium griseum, Müll. & Henle, *Plag.* 19.

HAB.—India (Java).

6. CHILOSCYLLIUM MALAIANUM. Malay Bamboo Shark.

Chiloscyllium malaianum, N., Müll. & Henle, *Plag.* 20.

Scyllium malaisianum, Lesson, *Duperrey, Voy.* 22 liv. *Poiss.* n. 6.

Quoy & Gaim. Freyc. 192.

HAB.—Gulf of Offack.

5. CROSSORHINUS.

Mouth large, nearer the end of the snout than in most sharks. Head broad, flat. The nasal-flap is beset with many skinny shreds. Tattered appendages hanging to the side of the head from the nose to the gill-openings. Corner folds of the mouth not connected to

each other beneath. Teeth flat, pointed, with a three-lobed root, the middle lobe being the smallest, rounded, and defined like a toothlet. Spiracles more than usually long, situated beneath and somewhat behind the eyes. Gill-openings all equally far apart from each other, decreasing in size from the first to the last; the last two over the base of the breast-fin. Both back-fins between the belly-fins and anal, the latter close to the tail-fin.

Crossorhinus, Müll. & Henle, *Mag. Nat. Hist.* ii. 1838. *Plagiost.* 21. *Bonap. Selac. Tab. Anal.* 11, 1838.

Scylliorhinus (§ 2), sp., *Blainv. Bull. Soc. Phil.* 1816, 121. *Jour. de Phys.* 1816, 263.

1. *CROSSORHINUS BARBATUS*. Watts' Shark.

Crossorhinus barbatus, Müll. & Henle, *Plag.* 21.

Crossorhinus lobatus, *Bonap. Selac. Tab. Anal.* 11.

Watts' Shark, *Philip. Voy.* 168, t. 43.

Le barbu, *Brouss.* 657.

Squalus barbatus, *Linn. Gmel.* 1493, 18.

Squalus appendiculatus, *Shaw, Nat. Misc.* 727.

Le squalé barbu, *Lacép.* i. 247.

Squalus barbatus, *Bloch, Schneid.* 128.

Squalus lobatus, *Bloch, Schneid.* 137.

Scyllium lobatum, *Cuv. Rég. An.* 387.

Zee Horekens, *Valentyn, Verhandeling*, t. 52, A.

Scylliorhinus barbatus, *Blainv. Bull. Soc. Phil.* 1816, 121.

HAB.—Indian Ocean.

a. Stuffed. New Holland.

b, c. Stuffed. Japan. Mus. Leyden.

("Squalus labiatus." Mus. Leyden.

6. *NEBRIUS*.

Snout blunt. Nostils cleft up to the mouth; a short flap on the inner side, which has a long barbel that hangs over the mouth; also a short flap on the under side of the outer side. Mouth convex. The corner fold of the mouth is divided into an upper and under one by a deep furrow, the inner end of the under one is separated by a more or less deep perpendicular furrow, whence the corner fold of the mouth is rake-like; the pits very deep. Teeth very numerous, up to ten successive rows, a rhomboidal base, with a middle conical point having from two to four blunt, radical toothlets on each side,

all gradually diminishing in size. The fifth gill-opening is almost concealed within the fourth, both are over the breast-fin. Spiracles very small, straight, behind the eyes. The first back-fin stands over the belly-fins; the second back-fin sometimes before the anal, sometimes over its beginning. Anal nearer to the tail-fin than the back-fin, but not pressing immediately on the tail-fin. Tail-fin with a rudiment of an under lobe. The breast-fins are longer than in the other Scyllia.

Nebrius, Rüpp. *Chondropt. Abyss.* 62.

Scylliorhinus, sp., *Blainv. Bull. Soc. Phil.* 1816, 121. *Jour. de Phys.* 1816, 263.

Ginglymostoma, Müll. & Henle, *Mag. Nat. Hist.* ii. 1838. *Plagiost.* 22. *Bonap. Selac. Tab. Anal.* 11, 1838.

1. NEBRIUS CONCOLOR. Plain Nebrius.

Ginglymostoma concolor, N., Müll. & Henle, *Plag.* 22.

Nebrius concolor, Rüpp. *Chondropt. Abyss.* 62, t. 17, f. 2.

HAB.—India and the Red Sea.

? a. Stuffed. Young. (In a bad state; the ventral-fins wanting)
b. Jaws.

2. NEBRIUS CIRRATUM. Bearded Nebrius.

Gata, *Parra.* t. 34, f. 2.

Squalus cirratus, *Linn. Gmel.* 1492, 17.

Le barbillon, *Lacép.* i. 245.

Squalus punctatus, *Bloch, Schneid.* 134.

Scyllium cirrhosum, *Griff. An. Kingd.* x. t. 30 (young).

Squalus argus, *Bancroft, Zool.* v. 1835, 82.

Scylliorhinus cirratus, *Blainv. Bull. Soc. Phil.* 121, 1816. *Jour. de Phys.* 263, 1816,

Ginglymostoma cirratum, N., Müll. & Henle, *Plag.* 23. *Smith, Proc. Zool. Soc.* 1837.

HAB.—Indian and Atlantic Ocean.

a. In spirits. South Seas.

b. Stuffed. West India Islands. From Mr. Scrivener's collection.

c. Stuffed. From Dr. A. Smith's collection.

7. STEGOSTOMA.

The mouth is small and entirely transverse. On the upper and under-jaw the skin forms two flat rolls which support the teeth: these resemble a tripartite leaflet. The middle part between the nasal-flaps is very much broader than the flaps themselves, and forms a thick, transverse roll above the mouth, forming an upper anterior cover to it: it has a rounded free border in which the fore and hinder surfaces unite; the hinder one in its usual hidden position is also concave-scooped. The nasal-flaps are reduced to an edge of skin which binds the middle roll to the sides. A stout barbel-like prolongation of the nasal-flap. No flap on the under edge of the nasal opening. The corner folds of the mouth are short; the pits deep. The head is much arched and rounded. The opening between the eyelids is very small, transversely oval, and has sharp edges. The fifth gill-opening is concealed in the fourth. The third, fourth, and fifth gill-openings over the breast-fin. The first back-fin stands over the belly-fin, and reaches directly over the same in front: the second back-fin stands between the belly-fins and anal. The anal is close before the tail-fin. The tail-fin is almost equally high throughout, and has the usual under lobe towards the end, and is very long in proportion to the body.

Stegostoma, Müll. & Henle, *Mag. Nat. Hist.* ii. 1838. *Plagiost.* 24.
Bonap. Selac. Tab. Anal. 11, 1838.
Scyllium, sp., Rüpp. *Chondropt.* 1.

1. STEGOSTOMA FASCIATUM. Zebra Shark.

Stegostoma fasciatum, Müll. & Henle, *Plag.* 24. *Bonap. Selac. Tab. Anal.* 11, 1838.
Squalus, *Seba, Thesaurus*, iii. t. 34, n. 1, p. 105. *Gronov. Mus.* i. 82, n. 136. *Zooph.* 31, n. 147.
 Le tigre, *Brouss.* 658.
Squalus tigrinus, *Gmel. Syst. Nat.* 1493, 19. *Forst. Zool. Ind.* 24, t. 13, f. 2.
Squalus longicaudus, *Gmel. Syst. Nat.* 1496, 24.
 Zebra Shark, *Shaw, Nat. Misc.* 434.
 Squale tigre, *Lacép.* i. 249.
Squalus fasciatus, *Bloch*, 113. (*Copied by Shaw, Gen. Zool.* 148 and *Encyc.* 23). *Bloch, Schneil.* 130.
 Pollee Makum, *Russell*, 18.
 La roussette tigrée, *Dict. Sci.* n. 33, f. 2.

Scyllium heptagonum, *Rüpp. Chondropt.* 1, t. 17, f. 1.
Scylliorhinus tigrinus, *Blainv. Bull. Soc. Phil.* 121, 1816. *Jour. de Phys.* 263, 1816.

HAB.—Indian Ocean.

a—c. Stuffed.

d. Stuffed. Indian Seas.

e, f. Stuffed. Madras Seas. Presented by T. C. Jerdon, Esq.

g. Stuffed. India. Presented by T. E. J. Boileau, Esq.

Fam. 2. SQUALIDÆ.

Body elongate, subcylindrical, gradually tapering to the tail. Pectoral-fins moderate lateral. Dorsal-fins, one or two; the first placed between the pectoral and dorsal-fins.

Squali, (§ 2, 3, and 4), *Müll. & Henle, Mag. Nat. Hist.* ii. 1838. *Plagiost.* 28.

SYNOPSIS OF SECTIONS AND TRIBES.

I. *Nictitating membrane distinct; dorsal-fins two; anal distinct.*

a. *Spiracles none; second dorsal over the anal.*

1. SQUALIANA.—Teeth flat, sharp-edged, smooth, or serrated.

2. LEPTOCHARIANA.—Teeth pointed, with lateral denticles.

b. *Spiracles distinct.*

3. GALIEANA.—Teeth flat, sharp-edged, smooth, or serrated.

4. TRIAKIANA.—Teeth pointed, with lateral denticles.

5. MUSTELIANA.—Teeth pavement-like.

II. *Nictitating membrane none.*

a. *Anal distinct; dorsal-fins two.*

6. ISURINA.—Gill-slits all before the pectorals; second dorsal opposite the anal.

7. ODONTASPIDIANA.—Gill-slits all before the pectorals; second dorsal between the ventral and anal.

8. ALOPECIANA.—Last gill-slit over the pectoral; second dorsal opposite the anal.

9. HETERODONTINA.—Last gill-slit over the pectoral; second dorsal between the ventral and anal; dorsals spinous.

b. *Anal distinct; dorsal-fin one.*

10. HEXANCHINA.

c. *Anal none; dorsal-fins two.*

11. ACANTIANA.—Dorsal-fins with a spine in front.

12. DALATIANA.—Dorsal-fins spineless.

1. *Nictitating membrane distinct; dorsal-fins two, first between the pectoral and ventral; anal distinct; front branchial-slits before the front edge of the pectoral-fins.*

Squali (§ 2), Müll. & Henle, *Mag. Nat. Hist.* ii. 1838. *Plagiost.*

A. *Spiracles none; second dorsal-fin over the anal.*

Squali (§ 2, a.), Müll. & Henle, *Plag.*

Tribe 1. SQUALIANA.

The head is flat. The snout pointed, blunt or elongate sideways. The nostrils have for the most part a small, three-sided flap to their upper border. The eyelids enclose an acute, oval, or roundish opening; the pupil is perpendicularly oval. The mouth is boldly convex; the corner fold of the mouth small. The teeth in this family are generally three-cornered, flat, with the cutting-edge entire or serrated, even-sided or unequal. The anal stands directly opposite the second back-fin, or close before it or behind it. The tail has always a short under lobe, and a slit in its under edge before the obliquely truncated end of the upper lobe. A small three-cornered pit may be generally found on the upper and under sides of the root of the tail. The intestinal valve is rolled lengthways, not straightways. The scales are small; the skin smooth.

Carchariæ, Müll. & Henle, *Plag.*

Squalini, Bonap. *Selach. Tab. Anal.* 10, 1838.

1. SQUALUS.

Snout flat, more or less rounded, moderately long: the nostrils in the middle between the mouth and the point of the snout. Labial cartilages very small, or wanting. The yolk-bag of the embryo is connected with a kind of uterine placenta by a curled fold; the oviduct is either smooth or clothed with villi.

Squalus, sp., *Linn.*

Squalus, *Bonap. Selac. Tab. Anal.* 10, 1838.

Carcharias, *Müll. & Henle, Mag. Nat. Hist.* ii. 1838. *Plagiost.* 28.

Carcharias, part., *Cuv. Règ. An.* 2 ed. ii. 387.

The form of the teeth divides the genus into five sub-genera.

1. Teeth in the upper and under-jaw equal, except that there is a single middle tooth in the upper-jaw, which is wanting in the under one, cutting with the whole outer efficient point, destitute of serratures. The outer part of the base forms a blunt ledge, with or without a slight indentation. The second back-fin stands straight over the anal or over the hinder end of the same. Tail-pit distinct above and below. Scales small, three-keeled. The oviduct of the embryo is beset with villi.—*SCOLIODON*.

Scoliodon, *Müll. & Henle, Mag. Nat. Hist.* ii. 3, 1838. *Plagiost.* 28. *Bonap. Selac. Tab. Anal.* 10, 1838.

Carcharias, sp., *Cuv. Règ. An.* 2 ed. ii. 387.

1. *SQUALUS* (*SCOLIODON*) *LATICAUDUS*. Broad-tailed Requin.

Carcharias (*Scoliodon*) *laticaudus*, *Müll. & Henle, Plag.* 28. *Bonap. Selac. Tab. Anal.* 10.

HAB.—India.

Mus. Paris and Berlin.

2. *SQUALUS* (*SCOLIODON*) *ACUTUS*. Russell's Requin.

Carcharias (*Scoliodon*) *acutus*, *Rüpp. Müll. & Henle, Plag.* 29. *Rüpp. Chondropt.* 5, t. 18, f. 4, 1837. *Rich. Rep. Brit. Assoc.* 194, 1845.

Squalus Russellii, Gray, *Illust. Ind. Zool. t. Icon. Reeves, a, 5.*
Hardw. Icon. ined. B. M. Cart. 50 and 47.

HAB.—Indian Ocean, China.

a. In spirits. China. Presented by J. R. Reeves, Esq.

b—d. In spirits. Bengal. Presented by Gen. Hardwicke.

e, f. In spirits.

3. *SQUALUS (SCOLIODON) LALANDII*. Laland's Requin
Carcharias (Scoliodon) Lalandii, Valenc. Müll. & Henle, Plag.
 30.

HAB.—Rio de Janeiro, Martinique, Guadeloupe.

Mus. Leyden and Paris.

2. The teeth are in all respects as in *Scoliodon*, within the upper and under-jaw an oblique point, and a ledge on the outer side, without serratures, but they are thicker and less cutting, the point more slender and longer. In the upper-jaw a straight, middle tooth; two small straight ones in the lower-jaw. The two succeeding teeth on each side have long hook-like points upon a rounder and more prominent base, which is roundish in its cross section; they are bigger than those which follow. First back-fin close before the belly-fins; the second is over the space between the ventral and anal-fins.—*TRIGLOCHIS*.

Physodon, Müll. & Henle, Plag. 30. Valenc. MSS. Bonap.
Selac. Tab. Anal. 10, 1838.

Triglochis, Müll. & Henle, Mag. Nat. Hist. ii. 1838.

1. *SQUALUS (TRIGLOCHIS) MULLERI*. Muller's *Physodon*.
Carcharias (Physodon) Mülleri, Valenc. Müll. & Henle, Plag. 30.

HAB.—Bengal.

3. The teeth of the upper and under jaw not serrated; the upper teeth straight or slightly inclined outwards; the under teeth straight, with a proportionally smaller point on a broader base.—*APRION*.

Aprion, Müll. & Henle, Plag. 31.

1. *SQUALUS (APRION) BREVIPINNA*. Short-finned *Aprion*.
Carcharias (Aprion) brevipinna, N., Müll. & Henle. Plag. 31.

HAB.—Java.

2. *SQUALUS ACUTIDENS*. Sharp-toothed Aprion.

Carcharias (Aprion) *acutidens*, *Rüpp. Chondropt.* 5, t. Müll. & Henle, *Plag.* 33.

HAB. ——— ?

Mus. Frankfort.

3. *SQUALUS* (APRION) *ISODON*.

Carcharias (Aprion) *isodon*, *Valenc. MSS. in Müll. & Henle, Plag.* 32.

HAB. ——— ?

Mus. Paris.

4. The base of the upper-jaw teeth is serrated, or strongly jagged on the outer side or on both sides. The point of the upper-jaw teeth, and the point and base of the lower-jaw teeth wholly smooth, not serrated.—*HYPOPRION*.

Hypoprion, *Müll. & Henle, Plag.* 34.

1. *SQUALUS* (HYPOPRION) *MACLOTI*. Maclot's Hypoprion.

Carcharias (Hypoprion) *Macloti*, *Müll. & Henle, Plag.* 34.

HAB.—New Guinea.

Mus. Leyden.

2. *SQUALUS* (HYPOPRION) *HEMIDON*. Half-toothed Hypoprion.

Carcharias (Hypoprion) *hemidon*, *Valenc. Müll. & Henle, Plag.* 35.

HAB.—Pondicherry.

a. Stuffed. From Mr. Leadbeater's collection.

5. Teeth either in the upper-jaw or in both jaws, and on both sides finely serrated, oblique in direction or straight, three-sided or with a small point on a broad base. Almost always there is a solitary middle tooth in the lower jaw. Oviduct of the embryo smooth, not villous.—*CARCHARINUS*.

Carcharinus, *Blainv. Bull. Soc. Phil.* 121, 1816.

Prionodon, *Müll. & Henle, Plag.* 36.

Carcharias, *Cuv. Règ. An.* 2 ed. ii. 387. *Müll. & Henle, Mag. Nat. Hist.* ii. 1838.

Squalus, *Bonap. Selac. Tab. Anal.* 10, 1838.

* *The first back-fin standing nearer to the ventrals than to the breast-fin.*

1. *SQUALUS (CARCHARINUS) GLAUCUS.* Blue Shark.

Carcharias (Prionodon) glaucus, *Müll. & Henle, Plag.* 36.

Squalus (Carcharias) glaucus, *Cuv. Règ. An.* 2 ed. ii. 388.

Squalus glaucus, *Bonap. Faun. Ital. Fasc.* 27.

Carcharinus glaucus, *Blainv. Bull. Soc. Phil.* 121, 1816.

HAB.—Mediterranean and the Ocean.

a. Stuffed. Adult. English Coast.

b. In spirits. (Fœtal state).

c. Stuffed. Young.

d. Skeleton.

e, f. Two jaws.

2. *SQUALUS (CARCHARINUS) CAUDATA.* New York Shark.

Lamna caudata, *De Kay, Nat. Hist. New York*, 344, pl. 62, f. 205, pt. *Zool.* 1842.

Carcharias terræ-novæ? *Rich. Faun. Bor. Amer.* 289, 1836.

HAB.—New York, Coast of Massachusetts.

** *The first back-fin standing close behind the breast-fin.*

Isurus, *Rafin. Caratt.* 12.

3. *SQUALUS (CARCHARINUS) CÆRULEUS.* Small Blue Shark.

Small Blue Shark, *Mitch. Trans. Lit. Phil. Soc.* i. 487.

Carcharias cæruleus, *De Kay, Nat. Hist. New York*, 349, pl. 61, f. 200, 1842.

HAB.—New York, New Hampshire.

4. *SQUALUS (CARCHARINUS) LAMIA.* The Lamia.

Carcharias (Prionodon) Lamia, *Müll. & Henle, Plag.* 37, pl.

? *Squalus glaucus*, *Lacép. i. t. ix. f. 1*, 1798.

- Carcharias glaucus*, *Rafn. Ind.* 45, 1810.
Squalus carcharius, *Risso, Ichth.* 25, 1810.
Carcharius Lamia, *Risso, Nat. Hist.* iii. 119, 1826.
 ? *Carcharius falcipinnus*, *Lowe, Proc. Zool. Soc.* 90, *Lond.* 1839.
Carcharias alalōnga, *Müll. & Henle, Man. Cat. Mus. Zool. Soc.*
Lond. No. 703, 705.

HAB.—Mediterranean.

- a, b. Stuffed. Presented by the Zoological Society of London.
 c. Stuffed.
 d. Stuffed. Half-grown.
 e. Skeleton.
 f, g. Jaws. From Dr. Mantell's collection.
 h—m. Jaws.
 n. Stuffed. Young.

5. SQUALUS (CARCHARINUS) MILBERTI. Milbert's Shark.

Carcharias Prionodon, Milbertii, Valenc. Müll. & Henle, 38.

HAB. ———? Mus. Paris.

- a. Stuffed. India. Presented by T. E. J. Boileau, Esq.

6. SQUALUS (CARCHARINUS) GANGETICUS. Gangetic Shark.

Carcharias (Prionodon) gangeticus, N., *Müll. & Henle, Plag.* 39.

HAB.—Indian Ocean.

- a. Stuffed. Calcutta. Presented by — Blyth, Esq.

7. SQUALUS (CARCHARINUS) GLYPHIS. Müller's Shark.

Carcharias (Prionodon) glyphis, N., *Müll. & Henle, Plag.* 40.

HAB. ———? Mus. Berlin.

8. SQUALUS (CARCHARINUS) AMBOINENSIS. Amboina Shark.

Carcharias (Prionodon) Amboinensis, N., *Müll. & Henle, Plag.* 41.

HAB.—Amboina. Mus. Leyden.

9. SQUALUS (CARCHARINUS) OXYRHYNCHUS. Sharp-nosed Isurus.

Carcharias (Prionodon) oxyrhynchus, N., *Müll. & Henle, Plag.* 41.

Isurus oxyrhynchus, *Rafn. Caratt.* 12, pl. xiii. f. 1, 1810. (fide Müller).

HAB.—Surinam.

- a. Stuffed. West Indies. From Mr. Scrivener's collection.

10. SQUALUS (CARCHARINUS) LEUCAS. Leucas Shark.

Carcharias (Prionodon) leucas, Valenc. Müll. & Henle, *Plag.* 42.

HAB.—West Indies. Mus. Paris.

*** *The first back-fin in the middle between the pectorals and ventrals, or nearer the former.*

11. SQUALUS (CARCHARINUS) MELANOPTERUS. Black-finned Shark.

Carcharias (Prionodon) melanopterus, Quoy & Gaim. Müll. & Henle, *Plag.* 43. *Rich. Rep. Brit. Assoc.* 194, 1845.

Squalus carcharias min, Forsk. *Descr.* 30.

Squalus requin, Lacép. v. 169, t. 8, f. 1.

Carcharias melanopterus, Quoy & Gaim. *Freye. Voy. Zool.* pl. 43, f. 1, 2.

Squalus ustus, Dum. *Cuv. Règ. An.* 2 ed. ii. 388.

Squalus Spallanzanii, Lesueur, *Phil. Journ.* ii. pl. 2, 351.

Carcharias melanopterus, Bennett, *Life of Raffles*, 693. *Rüpp. Chondropt.* 3.

Carcharhinus ustus, Blainv. *Bull. Soc. Phil.* ii. 121.

HAB.—Red Sea, Java, Australia, Timor.

a. Stuffed. Cape Seas. From Dr. A. Smith's collection.

b. In spirits. Moluccas. From Mr. Frank's collection.

c—f. In spirits. (Fœtal state). Port Arthur. Presented by Sir J. Richardson.

g. In spirits. Young. China. Presented by Sir J. Richardson.

h. In spirits. Young. South Australia.

i. In spirits. Young. South Australia. Presented by Sir J. Richardson.

12. SQUALUS (CARCHARINUS) ALBIMARGINATUS. White-edged Shark.

Carcharias (Prionodon) albimarginatus, Rüpp. *Chondropt.* 4, t. 18, f. 1. Müll. & Henle, *Plag.* 44.

HAB.—Red Sea. Mus. Frankfort.

13. SQUALUS (CARCHARINUS) MAOU. Maou Shark.

Carcharias (Prionodon) MAOU, N., Müll. & Henle, *Plag.* 44.

Squalus MAOU, Less. *Dup. Voy.* 91.

HAB.—Mer de l'Archipel des Pomotous.

14. SQUALUS (CARCHARINUS) SORRAH. Sorrah Shark.

Carcharias (Prionodon) Sorrah, *Valenc. MSS. Müll. & Henle, Plag. 45.*

HAB.—Indian Ocean.

a. In spirits. Singapore. From Mr. Argent's collection.

15. SQUALUS (CARCHARINUS) OBSCURUS. Dusky Shark.

Carcharias (Prionodon) obscurus, N., *Müll. & Henle, Plag. 46.*
 Squalus obscurus, *Lesueur, Phil. Journ. i. 223, t. 9. Act. Nat. Sci.*
i. 223, f. 201. De Kay, Nat. Hist. of New York, 350, pl. 61,
f. 201, 1842.

HAB.—North America.

? a. Stuffed. (Old collection).

16. SQUALUS (CARCHARINUS) HENLEI. Henle's Shark.

Carcharias (Prionodon) Henlei, *Valenc. MSS. Müll. & Henle, Plag. 46.*
 ? Carcharias fissidens, *Bennett, Proc. Zool. Soc. Lond. 1830—31,*
148.

HAB.—Cayenne. Mus. Paris.

17. SQUALUS (CARCHARINUS) MENISORRAH. Menisorrah Shark.

Carcharias (Prionodon) Menisorrah, *Valenc. MSS. Müll. & Henle, Plag. 46.*

HAB.—Indian Ocean.

a. Stuffed. Moluccas. From Mr. Franks' collection.

18. SQUALUS (CARCHARINUS) FALCIFORMIS. Scythe-shaped Shark.

Carcharias (Prionodon) falciformis, *Bibron, MSS. Müll. & Henle, Plag. 47.*

HAB.—Cuba. Mus. Paris.

19. SQUALUS (CARCHARINUS) DUSSUMIERI. Dussumier's Shark.

Carcharias (Prionodon) Dussumieri, *Valenc. Müll. & Henle, Plag. 47. Rich. Rep. Brit. Assoc. 194, 1845.*

HAB.—China, Bombay, Pondicherry. Mus. Paris and Berlin.

20. *SQUALUS (CARCHARINUS) TEMMINCKII*. Temminck's Shark.
Carcharias (Prionodon) Temminckii, N., *Müll. & Henle, Plag.* 48.
 HAB.—India.
 a. Stuffed. Calcutta. From Mr. Bartlett's collection.

21. *SQUALUS (CARCHARINUS) LIMBATUS*. Margined Shark.
Carcharias (Prionodon) limbatus, *Valenc. Müll. & Henle, Plag.*
 49.
 HAB.—Indian Ocean.
 ? a. Stuffed. India. Presented by T. E. J. Boileau, Esq.

2. SPHYRNIAS.

The fore part of the head is broad, flat, and elongate on the sides, with the nostrils situated on the fore-border of it. The eyes on the lateral ends. The nasal-flap is a small, three-sided lappet on the inner edge of the nostril. Small labial cartilages. Teeth equal above and below, a flat pyramid inclined outwards with a ledge on the outer side of the base, entire or serrated. A middle tooth in both jaws. The first back-fin stands nigher to the pectorals than to the belly-fin; the second is smaller than the first, and stands over the anal. Tail-pits distinct. The oviduct of the embryo is set with villi. The yelk-bag is connected to the walls of the uterus.

Sphyrnias, *Rafin. Anal. Nat.* 93, 1815. (*No character or type*).
Sphyrna, "*Rafinesque*," *Index*, 46. *Cuv. Règ. An.* 2 ed. ii. 393.
Müll. & Henle, Plag. Bonap. Selach. Tab. Anal. 10, 1838.
Zygæna, *Cuv. Règ. An.* 2 ed. ii. 393. *Müll. & Henle, Mag. Nat. Hist.* ii. 1838.
Cestrorhinus, *Blainv. Bull. Soc. Phil. Jour.* 121, 1816. *Jour. de Phys.* 263, 1816.

1. SPHYRNIAS ZYGÆNA. Hammer-headed Shark.

Sphyrna Zygæna, "*Rafin.*" *Müll. & Henle, Plag.* 51. *Rich. Rep. Brit. Assoc.* 194, 1845.
Zygæna, *Rond.* 389. (*Copied from Gesner*, 82).
Libella, *Belon.* 61. *Salviani*, 121, t. 40. (*Copied from Aldrovand*, 408). *Jonston*, t. 7, f. 8. *Willoughby*, B. 1. *Ruysch. Theatr.* t. 7, f. 8.

- Zygæna, s. Libella, *Jacob, Mus.* 16, t. 7, f. 5.
 Jochfisch, *Valentine, Mss.* t. 32, f. 5.
 Zygæna, *Ray, 20, 7. Mus. Besler,* t. 15, f. 1. *Linn. Mus. Ad. Frid.* 52.
 Cestracion fronte arcus figura, *Klein, Misc.* iii. 13, n. 1.
 Stampella, *Scilla,* t. 28, f. 2.
 Piscis libella, *Bonnan. Mus. Kirch.* t. 37, f. 20.
 Zygène, *Duhamel,* sect. 9, p. 21, f. 3, 8. *Duter. Hist. Nat.* ii. 207.
 Squalus capite latissimo, transverso, malei instar, *Gronov. Mus.* i. 63, 139. *Zooph.* 146. *Artedi, Gen. Pisc.* 447. *Synon.* 96, 7.
 Le Marteau, *Brousson.* n. 11.
 Squalus Zygæna, *Brünnich,* 4, n. 8. *Forsk. Descript.* 18. *Bloch,* 117, 131. *Linn. Gm.* 1494, n. 5. *Mitch. Trans. New York,* i. 482.
 Martillo de Mar, *Bru de Ramon.*
 Cornuda, *Parra. Lam.* 32.
 Squalus, No. 4, capite transverso mallei instar, *Browne, Jam.* 458.
 Le Squale Marteau, *Lacép.* i. 257.
 Le Squale pantouffier, *Lacép.* i. 260, pl. vii. f. 3.
 Koma Sorra, *Russell,* t. xii.
 Hammer-headed Shark, *Shaw, Gen. Zool.* 354, pl. 154.
 Zygæna malleus, *Risso, Ichth.* 34. *Hist. Nat.* iii. 125. *Valenc. Mem. du Mus.* t. 9, p. 223, pl. 11, f. 1, a, b. *Agassiz.* t. E, f. 7. (teeth). *Yarr. Brit. Fish.* 504, 1841. *De Kay, Nat. Hist. of New York,* 362, pl. 62, f. 204.
 Sphyrna Zygæna, *Rafin. Ind.* 46. *Bonap. Faun. Ital. Fasc.* 27. *Rich. Rep. Brit. Assoc.* 194, 1845.
 Zygène Marteau, *Dict. Sci. Nat.* t. 32.
 Zygæna Lewisii, *Griff. An. Kingd.* t. 50.
 HAB.—Mediterranean, Indian Ocean and Atlantic.
 a. In spirits. Mediterranean.
 b. In spirits. Sumatra. From Mr. Frank's collection.
 c. In spirits. Demerara. Presented by Sir R. Schomburgh.
 d, e. In spirits. (Fœtal state).
 f. Head.
 g. Stuffed.
 h. Stuffed.
 i. Stuffed.
 j. Stuffed. Mediterranean.

2. SPHYRNIA TUDES. The Tudes.

Sphyrna Tudes, Müll. & Henle, *Plag.* 53.

Zygæna tudes, Valenc. *Mem. du Mus.* 9, t. 11, f. 3. Agass. iii. t.

E, f. 8. (teeth). Yarr. *Brit. Fish.* 2 ed. 507, f. 1, 1841.

HAB. ——— ?

3. SPHYRNIA TIBURO. Heart-headed Shark.

Sphyrna tiburo, Müll. & Henle, *Plag.* 53.

Tiburonis Sphyrna minor, Marcgr. *Pisc. Hist. Nat.* 181. Cop.

Willoughby, t. B, 9, f. 4. *Ruysch. Theatr.* t. 39, f. 7.

Cucuri Brasiliensibus, Ray, *Ichth.* 20, n. 4.

Zygæna affinis capite triangulo, Ray, *Ichth.* n. 8.

Galeus capite in hyperbolam desinente, Klein, *Misc.* iii. 12.

Cestracion cordisfigura, Klein, *Miss.* iii. 13, t. 2, f. 3, 4.

Le pantouffier, Brouss. 662.

Squalus tiburo, Linn. *Gm.* 1495, 16. Shaw, *Nat. Misc.* 229.

Bloch, Schneid. 131.

Heart-headed Shark, Shaw, *Gen. Zool.* 154.

Zygæna tiburo, Valenc. *Mem. du Mus.* ix. 12, f. 2. Agass. iii. t. E,
f. 9. (teeth).

Arrow-headed Shark, Penn. *Supp.* 105.

Zygæna tiburo, Yarr. *Brit. Fish.* 2 ed. 507, f. 2, 1841.

Cestrorhinus tiburio, Blainv. *Bull. Soc. Phil.* 121, 1816.

HAB.—Brazil.

a. In spirits. China. Presented by Sir J. Richardson.

b. In spirits. American Seas.

4. SPHYRNIA BLOCHII. Broad-headed Shark.

Sphyrna Blochii, Müll. & Henle, *Plag.* 54.

Zygæna Blochii, Valenc. *Mem. du Mus.* ix. t. p. 11, f. 2. Benn.

Life of Raffles, 693. *Hardw. Icon. Ined.* 53—58.

Zygæna laticeps, Cantor, Yarr. *Supp.* 65, 508, pl. 3. (young).

Z. Blochi, pl. 4. Z. laticeps (adult), 2 ed. 1841.

HAB.—Indian Ocean.

a. In spirits (head). India. Presented by Gen. Hardwicke.

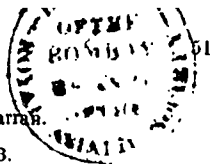
b. In spirits. Singapore. From Mr. Argent's collection.

c. Stuffed. India.

d. Stuffed. From Dr. A. Smith's collection.

e. Stuffed. Young.

LIST OF FISH.



5. SPHYRNIA MOKARRAN. The Mokarran.

Sphyrna Mokarran, Müll. & Henle, *Plag.* 53.

Zygæna Mokarran, Rüpp. *Chondropt.* 5, t. 17, f. 3.

HAB.—Red Sea. Mus. Berlin.

2. Head flat. Snout sharp or blunt. The nasal-flap is broad, or it is prolonged into a barbel. Eye-openings longitudinal. Corner folds of the mouth very small. The teeth as in *Scyllia*, small, numerous, with a long, middle prong, and one or two radical notches on either side of the base, similar in the upper and under-jaws. The second back-fin and anal stand opposite to one another, or nearly so. The tail-fin is as in *Carcharias*, or as in those *Scyllia* in which the under lobe is scarcely pronounced. Tail-pits existing or wanting. Scales three-pointed, five to seven deep.—LEPTOCHARIANA.

Triænodontes, Müll. & Henle, *Plag.* 5.

Triænodontini, Bonap. *Selac. Tab. Anal.* 10.

1. LEPTOCHARIAS.

Leptocharias, A. Smith. Müll. & Henle, *Mag. Nat. Hist.* ii. 13, 14, 1838.

Carcharias, sp., Rüpp.

Triænodon, Müll. & Henle, *Mag. Nat. Hist.* ii. 1838. *Plagiost.* 5.

1. LEPTOCHARIAS OBESUS. Red Sea *Leptocharias*.

Carcharias obesus, Rüpp. *Chondropt.* 4, t. 18, f. 2.

Triænodon obesus, Müll. & Henle, *Plag.* 55.

HAB.—Indian Ocean, Red Sea. Mus. Berlin.

2. LEPTOCHARIAS SMITHII. Smith's *Leptocharias*.

Leptocharias Smithii, Smith, *Mag. Nat. Hist. N. S.* ii. p. 13, 14, 1838.

HAB.—Southern Ocean.

a. Stuffed. Southern Ocean. Cabenda Bay. (The specimen described and figured by Müller and Henle).

B. *With nictitating membranes and spiracles; the last or the two last gill-openings over the pectoral-fins.*

Squali (§ 2, B), Müll. & Henle, *Plag.* 37.

3. Head flat. Snout pointed or blunt. Nostrils, openings between the eyelids. Mouth, and its corner folds as in the *Carchariæ*; but they all possess small lip-cartilages. The spiracles are small, longitudinal, or round. Teeth in both jaws alike, flat, with cutting-edges, a point inclined obliquely outwards, and a ledge on the outer border; the edges are either wholly without serratures, or they are serrated on the outer side only, or on both sides. The anal stands close before, behind or opposite to the second back-fin. The upper lobe of the tail-fin has one or two notches before its end. The tail-pit exists or is wanting. The gut-valve is either screw-formed or rolled lengthways. Scales small, three-keeled, with a middle point. —GALEIANA.

Galei, Müll. & Henle, *Plag.* 5.

Squalini, part, Bonap. *Selac. Tab. Anal.* 10, 1838.

1. GALEUS.

The longest spiracles about half the length of the eye-openings behind the eyes. The pupil forms an angle beneath, and is round above. The teeth have an inner smooth edge and an outer serrated one, which is set off from the upright smooth point of the tooth: in some teeth the inner edge exhibits a trace of a fine serrature. The front teeth are straight, jagged on both sides of the base, and no smaller than the side teeth. Tail-pit wanting. The upper lobe of the tail-fin has a notch. Gut-valve screw-formed.

Galeus, *Cuv. Règ. An.* 2 ed. ii. 389. Bonap. *Selac. Tab. Anal.* 10, 1838. Müll. & Henle, *Mag. Nat. Hist.* ii. 1838. *Plagiost.* 37. *Flem. Brit. An.* 165.

Galeorhinus, sp., *Blainv. Bull. Soc. Phil. Jour.* 121, 1816. *Jour. de Phys.* 263, 1816.

1. GALEUS CANIS. The Tope.

Galeus canis, Müll. & Henle, *Plag.* 37. *Rond.* 377. (Copied from Gesner, 197). Bonap. viii.

Canis galeus, *Salviani*, 130, t. 41: (Copied from *Jonston*, 8, f. 4).
Willoughby, B. 6. *Ruysch*, *Theatr.* t. 8, f. 4.

Galeus piscis, *Charleton*, *Onom.* 209.

Squalus galeus, *Brunnich*, 4, n. 9. *Linn. Gn.* 1492, 7. *Bloch*,
Schneid. 128. *Risso*, *Ichth.* 32. *Nils. Prod.* 115. *Jenyns*,
501. *Blainv. Faun. Fr.* 85.

Le Milandre, *Brousson*, 653.

Squalus naribus ori vicinis, foraminibus exiguis ad oculos, *Act. Gen.*
Pisc. 509; *Syn.* 97.

Le Squale Milandre, *Lacép.* i. 237.

Squalus (*Galeus*) *Galeus*, *Cuv. Rég. An.* 2 ed. ii. 389.

Milandre, *Duham.* 20, f. 1, 2. *Dict. Sci. Nat. Poiss.* pl. 29.

Carcharias galeus, *Risso*, *Hist. Nat.* iii. 121.

Galeus vulgaris, *Flem.* 165. *Yarrell*, 390. *Parn. Ichth. Firth of*
Forth, 1838.

Galeorhinus galeus, *Blainv. Bull. Soc. Phil.* 121, 1836.

HAB.—Atlantic and Indian Ocean.

a. Stuffed. English Coast.

b, c. Stuffed. From the Antarctic Expedition. Presented by the
Admiralty.

d. Stuffed. Indian Seas. From Dr. A. Smith's collection.

e. Stuffed. Cape of Good Hope. From Dr. A. Smith's collection.

f. In spirits. Firth of Forth. From Dr. Leach's collection.

2. GALEUS JAPANICUS. Japan Tape.

Galeus japonicus, *Müll. & Hentle, Plag.* 58.

HAB.—Japan. Mus. Leyden.

2. GALEOCERDO.

Spiracles very small, about half the length of the eye-openings behind the eyes. Pupils as in *Galeus*. Corner pits of the mouth, and labial cartilages indistinct. Teeth cutting, denticulated within and without. The point looks outwardly; the outer edge passes into a ledge under an angle on the outer side of the tooth, and coarsely jagged. A single middle tooth as well in the upper as in the under-jaw, whose point is bent on one side. The upper lobe of the tail-fin is long, and ends in a point: its under border has before its hinder end two successive notches, whereof the second occurs at the end of the spine. Tail-pit above and below. Gut-valve rolled lengthways.

Galeocerdo, *Müll. & Hentle, Mag. Nat. Hist.* ii. 1838. *Plagiost.*
59. *Bonap. Selac. Tab. Anal.* 10, 1838.

1. GALEOCERDO TIGRINUS. Tiger Tope.

Galeocerdo tigrinus, Müll. & Henle, *Plag.* 59.

HAB.—Indian Seas. Mus. Berlin.

a. Stuffed. Indian Seas. Presented by T. C. Jerdon, Esq

2. GALEOCERDO ARCTICUS. Arctic Tope.

Galeocerdo arcticus, Müll. & Henle, *Plag.* 60. *Bonap. Selac. Tab. Anal.* 10, 1838.

Canis Carcharias, sp. 2, *Hérissant, Ac. de Sci.* 158, pl. 19, 1749. *Lacép. i. t.* 8, f. 2 (teeth).

Squalus Carcharias, Blake, *Dent. Format. & Struct.* t. 6, f. 5 (teeth).

Galeus arcticus, *Faber*, 17.

Squalus arcticus, *Nils. Prod.* 115.

Galeus cepedianus, *Agassiz, Feuille.* 71, t. E, f. 5, 6 (teeth).

Galeus, *Owen, Odontol.* t. 28, f. 9 (teeth).

HAB.—North Sea Islands, Faroë, Norway.

a, b. Jaws. From the Chatham Museum.

c. Jaws. Presented by Mr. H. S. Hall.

3. LOXODON.

Pupil round. Teeth with an oblique edge without serratures, and a ledge on the outer side of the base also entire, alike in both jaws: in the upper-jaw a middle tooth; in the under-jaw none. Spiracles small, behind, and near the eyes. Tail-pit above and below. Upper lobe of the tail-fin only once notched. Gut-valve?

Loxodon, Müll. & Henle, *Mag. Nat. Hist.* ii. 1838. *Plagiost.* 61. (not *F. Cuvier*). *Bonap. Selac. Tab. Anal.* 10, 1838.

1. LOXODON MACRORHINUS. Large-beaked Loxodon.

Loxodon macrorhinus, Müll. & Henle, *Plag.* 61.

HAB. ———? Mus. Berlin.

4. THALASSORHINUS.

Pupil perpendicularly oval. Nasal-flap very short. Teeth three-cornered, without a ledge, serrated. Spiracles tolerably large. Tail-fin, as in *Carcharias*, only once notched. Tail-pit conspicuous above and below. Gut-valve rolled lengthways.

- Thalassorhinus*, "Pall. MSS." Müll. & Henle, *Plag. Bonap. Selac. Tab. Anal.* 10, 1838.
Galeus, sp., *Valenc. Ann. Sci. Nat.* 1835.
Galeorhinus, sp., *Blainv. Bull. Soc. Phil.* 121, 1816.

1. *THALASSORHINUS RONDELETTII*. Rondelet's Shark.

- Carcharias Rondeletii*, *Risso, Ichth.* 27. *Hist. Nat.* iii. 120.
Galeus thalassinus, *Valenc. Leçons d'Anat. Comp. de G. Cuv.* t. 4, p. 2. *Revu par G. L. Duvernoy*, 401, Paris, 1835. *Ann. Sci. Nat.* 2 Série, iii. 274, 1835.
Galeorhinus Rondeletii, *Blainv. Bull. Soc. Phil.* 121, 1816.
Thalassorhinus vulpecula, *Müll. & Henle, Plag.* 62. *Bonap. Selac. Tab. Anal.* 10, 1838.
 HAB.—Mediterranean and Ocean.

2. *THALASSORHINUS PLATYRHYNCHUS*. Flat-nosed Shark.

- Thalassorhinus platyrhynchus*, N., *Müll. & Henle, Plag.* 63.
Squalus platyrhynchus, *Walbaum, Nat. Fr.* v. 381. *Art. Gen.* 521.
 HAB. ———?

4. Head flat. Snout blunt. Nasal-flap broad, and moderately long. Corner pits of the mouth and labial cartilages large. The eyelids enclose a long opening. Spiracles of medium size. Teeth as in *Scyllia*, a long middle prong, with many lateral notches on the base. In form, the fins resemble those of the true *Scyllia*. The under lobe of the tail-fin is abortive, and the tail-pits are wanting. Scales three-keeled and three-pronged.—*TRIAKIANA*.
Scylliodontes, *Müll. & Henle, Plag.* 63.

1. *TRIAKIS*.

The character of Tribe.

- Triakis*, *Müll. & Henle, Mag. Nat. Hist.* ii. 1838. *Plag.* 63.

1. *TRIAKIS SCYLLIUM*. The *Triakis*.

- Triakis scyllium*, *Müll. & Henle, Plag.* 63.
 HAB.—Japan.

2. TRIAKIS CALIFORNICA. Californian Triakis.

HAB.—California.

a—e. IN spirits. Fœtal state. California.

5. Spiracles large. Long eye-openings. The nictitating membrane is puffed, and looks like a doubling of the under eyelid. Teeth pavement-like, flat, without point or cutting-edges as in the teeth of the rays. Cartilages at the corner of the mouth, with deep pits there. On the upper border of the nostril a three-sided lobe of skin with a rounded point, whose base girdles three-fourths of the border; on the outside thereof a short, blunt lobelet. The first back-fin nearly in the middle, between the breast and belly-fins. Tail-fin short. Tail-pits indistinct. Gut-valve screw-formed.—MUSTELIANA.

Musteli, Müll. & Henle, *Plag.* 64.Mustelini, Bonap. *Selac. Tab. Anal.* 10, 1838.

1. MUSTELUS.

Mustelus, *Cuv. Règ. An.* 2 ed. ii. 389. Bonap. *Selac. Tab. Anal.* 10, 1838. Müll. & Henle, *Mag. Nat. Hist.* ii. 1838. *Plagiost.*

Galeus, sp., Rafin.

Galeorhinus, sp., *Blainv. Bull. Soc. Phil.* 121, 1816. *Jour. de Phys.* 263, 1816.

1. MUSTELUS VULGARIS. The Hound-fish.

Mustelus vulgaris, Müll. & Henle, *Plag.* 64. *Rich. Rep. Brit. Assoc.* 195, 1845.

Galeus hinnulus, *Belon.* 72.

Galeus lævis, *Rond.* 375. (Copied from *Gesner*, 717). *Gesner*, 726. (Copied from *Aldrovand*, 392). *Klein, Misc. Pisc.* iii. 9, t. 1, f. 7.

Galeus asterias, *Rond.* 377. (Copied from *Gesner*). *Aldrov.* 393. *Mus. Worm.* 272.

Mustelus lævis, *Salriani*, 137, t. 44. (Copied from *Willoughby*), *B.* 5. *Jonston*, viii. 6. *Ruysch, Theatr.* t. viii. f. 6. *Flem.* 166.

Mustelus stellaris, *Salriani*, 138.

Galeus asterias s. stellatus, *Jonst.* t. viii. f. 8. *Ruysch, Theatr.* t. viii. f. 8.

- Squalus dentibus obtusis s. granulosis*, *Gron. Mus.* i. 135. *Artedi, Gen. Pisc.* 505.
- Smooth Shark, *Penn. t.* xvi. (Copied from *Encycl. Méth. F.* 21).
- L'émissole, *Brouss.* 655.
- Squalus mustelus*, *Müll. Prod.* 38, n. 317. *Linn. Gm.* 1492.
Bloch, Schneid. 128. *Risso, Ichth.* 33. *Jenyns,* 502.
- Pintarroja, *Cornide,* 133.
- Squale émissole, *Lacép.* i. 242.
- Emissole commune, *Dict. Sci. Nat.* xxxii. 2.
- Mustelus lævis et stellatus*, *Risso, Hist. Nat.* iii. 126.
- Emissole commune und Emissole tachtetée de blanch, *Cuv. Règ. An.* 2 ed. ii. 390.
- Mustelus plebeius*, *Bonap. Faun. Ital.* viii. t.
- Mustelus equestris*, *Bonap. Faun. Ital.* viii. t.
- Smooth Hound, *Yarr.* ii. 393.
- Squalus mustelus hinnulus*, *Blainv. Faun. Fr.* 83, 84.
- Squalus mustelus lævis*, *Blainv. Faun. Fr.* 83, 84.
- Galeorhinus mustelus*, *Blainv. Bull. Soc. Phil.* 121, 1816.
- HAB.—Coast of Cornwall.
- a. Stuffed,
- b, c, d. Stuffed. From the Antarctic Expedition. Presented by the Admiralty.
- e. Stuffed. Mediterranean.
- f, g, h. Stuffed. Cape Seas. From Dr. A. Smith's collection.
- i. English Coast.
- j. In spirits. Berwick-upon-Tweed. Presented by Dr. Johnston.
- k. In spirits. New Zealand. Presented by Sir J. Richardson, M.D.

2. *MUSTELUS LÆVIS*. Smooth Hound-fish.

Mustelus lævis, *Müll. & Henle, Plag. Nacht.* 190.

HAB. ——— ?

3. *MUSTELUS PUNCTULATUS*. Gray Hound-fish.

Mustelus punctulatus, *Risso. Müll. & Henle, Plag.* 66. *Risso, Hist. Nat.* iii. 127.

Squalus canis, *Mitch. Trans. Lit. Phil. Soc.* i. 486.

Mustelus canis, *De Kay, Nat. Hist. of New York,* 355, pl. 64, f. 209, pt. 1. *Zool.* 1842.

HAB.—Mediterranean, Cape, Ocean.

4. *MUSTELUS MEGALOPTERUS*. Large-finned Hound-fish.

Mustelus megalopterus, *Smith, Illustr. Afr. Zool.* pl. 11 (male), 1839.

HAB.—Cape Seas,

II. *Nictitating membranes none ; spiracles distinct, often small.*A. *Dorsal-fins two ; anal distinct.*

Squali (§ 2, c), *Müll. & Henle, Mag. Nat. Hist.* ii. 1838. *Plagiost.* 67.

6. The gill-openings are large, and all lie before the breast-fins. The eye-openings roundish. The second back-fin and the anal roundish, of equal size, opposite to one another. Distinct tail-pits. Crescentic tail-fin. A keel on each side of the tail. Spiracles very small. Gut-valve screw-formed.—ISURINA.

Lamnoidia, *Müll. & Henle, Mag. Nat. Hist.* ii. 1838. *Plagiost.* 67.

Lamnæ, *Müll. & Henle, Plag.* 67.

Lamnini, *Bonap. Selac. Tab. Anal.* 9, 1838.

1. ISURUS.

Snout three-sided, pyramidal, pointed. Nasal-flap short, three-sided. Spiracles very small, far behind the eyes. Teeth flat, not serrated, three-sided, with a short-pointed denticle on each side of the base of the older ones, which is sometimes doubled. The jaw end of the teeth is deeply concave towards the jaw. No middle teeth, but a space in their stead in the upper and under-jaw. The two front teeth of the upper-jaw are followed on either side by one or more smaller ones. The skin is smooth. Scales very small.

Isurus, *Rafin. Caratt.*

Lania, *Greeks. Risso, Ichth. Nice.* (not *Fab.*).

Lamna, *Cuv. Règ. An.* 2 ed. ii. 388, 1817. *Müll. & Henle, Mag. Nat. Hist.* ii. 1838. *Plagiost.* 67.

Carcharhinus, sp., *Blainv. Bull. Soc. Phil.* 121, 1816.

1. *ISURUS CORNUBICUS*. The Porbeagle.

Canis carcharias, *Aldrov.* 383.

Porbeagle, *Borl. Cornw.* 265, t. 26, f. 4. *Yarr. Brit. Fish.* 384.

- Squalus monensis*, Penn. iii. t. 7. . *Jenyns, Brit. An.* 501. *Shaw, Gen. Zool.* v. pt. 2, p. 350.
- Touille-bœuf ou Loutre de Mer, *Duhamel*, pl. 20, f. 4.
- Le Nez, *Brouss.* 667, 16. *Lacép. i. t.* 11, f. 3.
- Squalus glaucus*, Haa-Maer, *Olav. Isl.* 382, t. 6. *Ström. Norske Vidensk. Selsk. Skr.* t. 2, 335.
- Squalus cornubicus*, *Linn. Gm.* 1497, 25. *Goodenough, Linn. Soc.* iii. 80, t. 15. *Bloch, Schneid.* 132. *Gmel. Syst. Nat. Donovan.* v. 108. *Nils. Prod.* 116. *Jenyns, Brit. An.* 501. *Fries & Eckst. Skand. Fisk. Heft.* v. t. 30.
- Haa-brand, *Ascan.* 31.
- Carcharhinus monensis*, *Blainv. Bull. Soc. Phil.* 121, 1816.
- Carcharhinus cornubicus*, *Blainv. Bull. Soc. Phil.* 121, 1816.
- Squalus selanonus*, *Leach, Wern. Mem.* t. ii. 64, t. ii. f. 2.
- Lamue-nez, *Dict. Sci. Nat.* t. 28, f. 1.
- Lamia cornubicus*, *Risso, Hist. Nat.* iii. 124.
- Lamna cornubica*, *Flem.* 168. *Bonap. Faun. Ital.* 61. *Agassiz, t. G, f. 1 (teeth).* *Müll. & Henle, Plag.* 67.
- Squalus (Lamna) cornubicus*, *Cuv. Rég. An.* 2 ed. ii. 389.
- Beaumaris Shark*, *Yarr. Brit. Fish.* 387.
- Isurus oxyrhynchus*, *Rafin. Caratt.* 12, t. 13, f. 1.
- Squalus (Lamna) monensis*, *Cuv. Rég. An.* 2 ed. ii. 389.

HAB.—Atlantic Ocean.

- a. Stuffed. Adult male. English Coast.
- b. Stuffed. Adult female. English Coast.
- c, d. Stuffed. Young.
- e, f. Jaws.

2. OXYRHINA.

Snout, spiracles, and fins as in *Isurus*. Teeth very thick, narrow, and long, nail-shaped, wholly without basal denticulations; the fore ones very long, and bent in a curve, the points inwards. Each tooth is flat before, convex behind: they rapidly diminish in size outwards; the outer ones are cutting, and almost equilateral. The teeth are double-rooted, a deep notch between the two roots. A space in the middle of the upper and under-jaw. The third tooth of the upper-jaw smaller.

Oxyrhina, *Agassiz, Fossil Fish.* iii. *Müll. & Henle, Mag. Nat. Hist.* ii. 1838. *Plagiost.* 68. *Bonap. Faun. Ital.* xxvii.

1. OXYRHINA GOMPHODON. The Tiburon.

Oxyrhina gomphodon, Müll. & Henle, *Plag.* 68.

? *Canis carcharias*, Aldrov. 388. (Copied from Ruysch, *Thes.* t. 6. f. 6).

Tiburon, *Bru de Ramon.* t. ii. 67.

Oxyrhina, Agassiz, iii. t. C, f. 2. *Feuill.* 71. (teeth).

Squalus rostratus, Saverio, Macri. *Atti della Reale Accademia, delle Scienze, Napoli*, 1819, p. 55, t. 1, f. 2.

Oxyrhina Spallanzanii, Bonap. *Faun. Ital. Fasc.* 26.

Cane di mare di Messina, Spallanzani, *Viagg.* t. 4, 325.

Lamna, Owen, *Odont.* t. 5, f. 1. (teeth).

? *Carcharias littoralis*, De Kay, *Nat. Hist. of New York*, 351, pt. 1. *Zool.* 1842.

HAB.—The Ocean, Mediterranean.

a. Jaws and tail.

b. Jaws. New Zealand. Presented by E. Churton, Esq.

c. A portion of the under-jaw. Malta? Presented by Miss E. Atersoll.

2. OXYRHINA GLAUCA. Glaucous Tiburon.

Oxyrhina glauca, Müll. & Henle, *Plag.* 69.

HAB.—Java.

3. OXYRHINA PUNCTATA. Dotted Tiburon.

Squalus punctatus, Mitch. *Trans. Lit. Phil. Soc.* i. 483, 1815. (young).

Lamna punctatus, Storer, *Massachusetts, Rep.* 185, pl. 3, f. 2. *De Kay, Nat. Hist. of New York*, 352, pl. 63, f. 206, 1842.

HAB.—New York, Coast of Massachusetts.

3. CARCHARODON.

Snout, position of the fins, and spiracles as in the foregoing. Teeth three-sided, with serrated edges, as in the teeth of *Carcharias*, straight, equilateral, and without a ledge. No middle tooth. The third tooth of the upper-jaw is a little smaller than the first two and the next following ones.

Carcharodon, Smith, *Illust. Zool. S. Afr.* Müll. & Henle, *Mag. Nat. Hist.* ii. 1838. *Plag.* 67. *Bonap. Selac. Tab. Anal.*

Carcharias, sp., Agassiz.

1. CARCHARODON RONDELETTII. The Lamia.

- Carcharodon Rondeletii, *Müll. & Henle, Plag.* 70.
 Lamia, *Rondelet*, 390. (Copied from *Gesner*, 204).
 Canis Carcharias, *Stenonis, Elementa Myolog.* 90. (Copied from
Jacob. Mus. Reg. pt. 1, s. 3, t. 1, n. 7). *Valent. Mus.* i. 65.
Blas. Anat. An. tab. fol. 272, f. A, B.
 Lamia, *Battarra, Mus. Thirch.* 137, 154. *Adnot.* t. 38, f. a.
 ? Carcharias verus, *Agassiz*, iii. t. F, f. 3. *Feuill.* 71. (teeth).
 Squalus (Carcharias) vulgaris, *Rich. Faun. Bor. Amer.* iii. 288.
 Carcharodon Smithii, *Müll. & Henle. Selac. Tab. Anal. in Mem.*
Soc. Nat. Hist. Neufchatel, ii. 9, gen. 42.
 Carcharodon Lamia, *Bonap. Faun. Ital. Fasc.* 24.
 Carcharodon capensis, *Smith, Illust. Zool. S. Afr.* pl. 4, 1849.
 (female).

HAB.—Mediterranean, Atlantic Ocean, Cape.

- a. Stuffed. Cape Seas. From Dr. A. Smith's collection. Presented by the Zoological Society.
 b. Jaws. Adult.

4. CETORHINUS.

Snout short, blunt. Small spiracles. Gill-openings very large, passing almost entirely across the throat. Teeth very small, numerous, conical, without denticulations or side notches, the points curved backwards. Scales with small curved points, which are bent in all directions, so that the skin feels rough each way.

- Cetorhinus, *Blainv. Bull. Soc. Phil.* 121, 1816. *Jour. de Phys.* 263, 1816.
 Selache (Les Pelerins), *Cuv. Règ. An.* 2 ed. ii. 390. *Müll. & Henle, Mag. Nat. Hist.* ii. 1838. *Plagiost. Bonap. Faun. Ital.*
 Selachus, *De Kay.*

1. CETORHINUS MAXIMUS. Basking Shark.

- Cetorhinus Gunneri, *Blainv. Bull. Soc. Phil.* 121, 1816.
 Squalus maximus, *Gunn. Dronth.* iii. t. 2. *Die Zähne Dronth.* iv. t. 4, f. 1. *Müll. Prod.* 38, n. 315. *Fabric. F. Gr.* 130. *Mohr. Fors.* 60. *Linn. Gm.* 1498, 11. *Bloch, Schneid.* 134. *Home, Phil. Trans.* 1809, pt. ii. t. vi. 206. *Flem. Brit. An.* 164. *Fabr. Naturg. d. F. Isl.* 20. *Nils. Prod.* 114. *Jenyns, Brit. An.* 563. *Mitch. Trans. New York*, i. 486.

- Brugden, *Leems*, 158.
 Basking Shark, *Penn. Brit. Zool.* n. 41, pl. 13. (Copied from *Shaw, Gen. Zool.* 327, pl. 149 (male), 150 (female). *Encycl. Méth.* f. 19. *Yarr. Brit. Fish.* ii 396.
 Le Tres-grand, *Brouss.* 669, 18. *Lacép.* i. 207.
 Pelerin Tres-grand, *Dict. Sci. Nat.* pl. 30.
 Le Squalus Pelerin (*Squalus maximus*), *Blainv. Ann. Musée*, vii. t. 6, f. 1. *Anat.*
Squalus elephas, *Lcsueur, Ph. Ac.* ii. 350.
Selache, *Agassiz*, t. F, f. 8.
Selache maxima, *Goyeau, Hamb. Mag.* 24 band, 331. *Müll. & Henle, Plag.* 71.
Squalus isodus, *Taverio Macri. Atti della Reale Accademia delle Scienze*, i. 55, t. i. f. 1, t. ii. f. 2, *Napoli*, 1819.
Squalus (Selache) maximus, *Cuv. Règ. An.* 2 éd. ii. 390. *Rich. Faun. Bor. Amer.* iii. 291.
Selachus maximus, *De Kay, Nat. Hist. of New York*, 357, pl. 63, f. 208 (male), 1842.
Cetorhinus Homianus, *Blainv. Bull. Soc. Phil.* 121, 1816.
Cetorhinus Shavianus, *Blainv. Bull. Soc. Phil.* 121, 1816.
 HAB.—North Sea, Coast of New Jersey, West Coast of Scotland, &c., &c.

Rineodon, *Smith, Mag. Nat. Hist.* 5, 1838?

7. The gill-openings are large, and lie wholly before the breast-fins. Spout-holes very small. * Second back-fin and anal large. The upper lobe of the tail-fin elongated as in *Carcharias*. Tail-pits indistinct, or wanting, and without the keels found in *Lamnæ*.—
 ODONTASPIDIANA.

Odontaspides, *Müll. & Henle, Plag.* 73.
Triglochini, *Bonap. Selac. Tab. Anal.* 9, 1838.

1. ODONTASPIS.

A stout, three-cornered flap on the upper edge of the nostril. The upper corner fold of the mouth is wanting. Cross plaits on the throat. The fore teeth very long, conical, simple, or with one or more very sharp, short, side denticles on the base; one or some small teeth follow on each side the front ones of the upper-jaw; the hinder upper-teeth are more cutting, and diminish rapidly

in size. The upper and under teeth are alike in form. The root of the teeth is divided by a middle hollow into two branches. The second back-fin between the belly-fins and anal. Scales with three keels, which end in three projecting denticles.

Odontaspis, *Agassiz, Fossil Fish.* ii.

Triglochis, *Müll. & Henle, Mag. Nat. Hist.* ii. 1838. *Plagiost.*

73. *Bonap. Selac. Tab. Anal.* 8, 1838.

Carcharias, *Rafin. Caratt.* 10, 1810. (not *Cuvier*, 1817).

Galeorhinus, sp., *Blainv. Bull. Soc. Phil.* 121, 1816.

1. ODONTASPIS TAURUS. Taurus Shark.

Odontaspis Taurus, *Müll. & Henle, Plag.* 73.

Carcharias Taurus, *Rafin. Caratt.* 10.

"*Triglochis Müllerii*, *Müll.*" *Smith, MSS.*

HAB.—Mediterranean, Cape, Ocean.

a. Stuffed. Cape Seas. From Dr. A. Smith's collection.

b. Stuffed. Cape Seas. From the Zoological Society.

2. ODONTASPIS FEROX. Fierce *Odontaspis*.

Squalus ferox, *Risso, Ichth.* 38. *Hist. Nat.* 122. *Blainv. Faun. Fr. t.*

Odontaspis ferox, *Agassiz*, iii. t. G, f. 1. *Bonap. Faun. Ital. Fasc.*

26. *Müll. & Henle, Plag.* 74.

Galeorhinus? *ferox*, *Blainv. Bull. Soc. Phil.* 121, 1816.

HAB.—Mediterranean.

a. Jaws. ———?

b. Jaws.

8. Snout short and conical; very small spout-holes. The nostrils small, a short flap on their upper edge. No labial cartilages. The gill-openings are small, as in *Carcharias*, and the last one stands over the breast-fin. The teeth are three-sided, flat, with their cutting-edges not serrated, alike in the upper and under-jaw; the fore ones straight, equilateral; the others somewhat curved outwards. No middle teeth. A slight fold of skin, with a sharp crescentic edge behind the teeth of the upper-jaw. Second back-fin and an anal opposite to each other, very small. The upper lobe of the tail-fin very long, with a little pit at the root. Small scales with three prongs. Gut-valve spiral.—ALOPECIANA.

Alopecia, *Müll. & Henle, Plag.*

Alopiadini, part, *Bonap. Selac. Tab. Anal.* 9, 1838.

1. ALOPIAS.

The characters of tribe.

Alopias, *Rafin. Caratt.* ii.

Alopecias, *Müll. & Henle, Mag. Nat. Hist.* ii. 1838. *Plag.*

Carcharinus, sp., *Blainv. Bull. Soc. Phil.* 121, 1816.

Carcharias, sp., *Cuv. Règ. An.* 2 ed. ii. 388.

1. ALOPIAS VULPES. Fox Shark.

Vulpes, *Rond.* 387.

Vulpecula, *Salv.* 134, f. 42. (*Copied from Jonst. t. 7, f. 3, Will. B.*
6). *Ruysch, Theatr.* iii. 3.

Vulpes marina, *Gesn.* 1249.

Vulpecula marina, *Aldrov.* 396, 397.

Galeus cauda longa, *Klein, Misc. Pisc.* iii. 10.

Long-tailed Shark, *Penn.* 14.

Renard marin, *Perrault, Mém. p. servir à l'Hist. Nat.* i. t. 15, 16.
Brouss. 664, 14.

Renard de Mer, *Duhamel*, xxi. f. 1, 2.

Zorra de Mer, *Bru. de Ramon.* ii. 49.

Squalus cauda longiore quam ipsum corpus, *Artedi, Gen. Pisc.* 508.
Synon. 96.

Squalus renard, *Lacép.* i. 267.

Squalus vulpes, *Gmel. Syst. Nat.* 1464. *Bloch, Schneid.* 127.
Jenyns, Brit. An. 498. *Blainv. Faun. Fr.* 94.

Carcharias vulpes, *Risso, Ichth.* 36. *Hist. Nat.* iii. 120. *Flem.*
Brit. An. 167.

Alopias macrourus, *Rafin. Caratt.* 12.

Squalus (Carcharias) vulpes, *Cuv. Règ. An.* 2 ed. ii. 388.

La Faux ou Renard, *Cuv. Règ. An.* 2 ed. ii. 388.

Alopias vulpes, *Bonap. Faun. Ital. Müll. & Henle, Plag.* 74.

Carcharinus vulpes, *Blainv. Bull. Soc. Phil.* 121, 1816.

Fox Shark, *Yarr. Brit. Fish.* 379.

Thresher or Long-tailed Shark, *Mitch. Trans. New York*, i. 482.
Medical Repository, Second Decade, ii. 77, *New York*, 1805.

Nat. Hist. of New York, 348, pl. 61, f. 199 (female), 1842.

HAB.—Mediterranean, Cape, Ocean.

a. Stuffed. Cape Seas. From Dr. A. Smith's collection.

b. Stuffed. From the Chatham Museum.

9. Mouth at the fore end of the snout. The nostrils reach to the mouth. The upper corner fold of the mouth is wanting. Spout-holes distinctly visible. The gill-openings small; the last one above the breast-fin. A spine before each back-fin. Tail short, with a notch on the under edge of the upper lobe.—*HETERODONTINA*.

Heterodontus, *Blainv. Bull. Soc. Phil.* 121, 1816.

Cestraciontes, *Müll. & Henle, Plag.* 76.

1. HETERODONTUS.

Nostril-slit within the mouth, surrounded within and without by a roll of skin; the outer one turning inwards; the inner one is separated by a furrow from the upper-lip. Spout-holes small, outside and somewhat behind the eyes. The eye under a ledge-like fold of the skin of the head, which begins close behind the snout and runs straight from before backwards. Only the under half of the corner fold of the mouth is evident, and is moreover divided towards the middle line from the skin of the under-jaw by a furrow. The upper one is barely shown by a small notch. Pavement-like teeth, in the middle small and pointed, from three to five denticles tiled from the base towards the point, of which the middle one is the biggest, and which are worn out in the old fish; also even in those which are not upright; in old individuals the radical denticles are indistinct, or wanting. The lateral teeth are pavement-like, rhomboidal, diminishing in bigness from the hindmost towards the first and back: they have a roll running in the direction of their longest diameter and a rough upper surface; altogether they remind one, by their form, of a winding spiral snail-shell. Gill-openings decreasing in size from before backwards, the last two moderately high above the breast-fin. Tail-fin short, with a distinct under lobe.

Heterodontus, *Blainv. Bull. Soc. Phil.* 121, 1816.

Cestracion (Les *Cestraceons*), *Cuv. Rêq. An.* 2 ed. ii. 291. *Müll. & Henle, Mag. Nat. Hist.* ii. 88, 1838. *Plagiost.* 76.

1. HETERODONTUS ZEBRA. Chinese *Cestracion*.

Cestracion Zebra, *Gray, Zool. Misc.* 5. *Icon. Reeves*, 174. *Hardw. Cart.* 52. *Rich. Rep. Brit. Assoc.* 195, 1845.

HAB.—China.

a. Stuffed. China. Presented by J. R. Reeves, Esq.

b. Stuffed. China.

2. HETERODONTUS PHILIPPI. Port Jackson Shark.

Port Jackson Shark, *Philip, Voy.* 283, 1790. *Davila Catalog.* i. 22, (teeth).

Squale Philip, *Lacép.* i. 283.

Squalus Philippi, *Bloch, Schneid.* 134.

Cestracion Philippi, *Agassiz*, iii. t. d. *Müll. & Henle, Plag.* 76. *Gray, Ann. Nat. Hist.* i. 109. *Less. Dup.* ii. pt. 1, 79. *Poissons*, pl. 3.

Cestracion Quoyii, *De Fremenville. Guérin-Ménéville, Mag. de Zool. Paris*, 1840, liv. 9. *Poiss.* pl. 3. *Owen, Odontl.* t. 10, f. 4, t. ii. f. 2.

Heterodontus Philippi, *Blainv. Bull. Soc. Phil.* 121, 1816.

HAB.—Australia.

a. Stuffed. S. Australia.

b. Port Jackson. Presented by R. Gunn, Esq.

c, d. Stuffed. Japan. From Mr. Franks' collection.

e—g. Jaws. Port Lincoln. Australia.

h. Skeleton.

3. HETERODONTUS PANTHERINUS.

Cestracion pantherinus, *Valent. Voy. Venus, Poissons*, t. 10, 62.

HAB. ——— ?

10. Head flat. Mouth and nostrils quite at the fore end of the same. Three-cornered nasal-flap. Teeth extraordinarily small, conical, very numerous, card-like. Spout-holes very small. The gill-openings diminish in size backwards; the last one stands above the breast-fin. The first back-fin far behind the anal; the second over it. Crescentic tail-fin without a notch in the upper lobe, with side keels and tail-pits. Gut-valve screw-formed.—RHINEODONTIANA.

Rhineodontis, *Müll. & Henle, Plag.* 77.

Lamnoidea, part, *Müll. & Henle, Mag. Nat. Hist.* ii. 5, 1838.

Alopiadini, part, *Bonap. Selac. Tab. Anal.* 9, 1838.

1. RHINODON.

The character of the tribe.

Rhineodon, "*A. Smith.*" *Müll. & Henle, Mag. Nat. Hist.* ii. 37, 1838. *Bonap. Selac. Tab. Anal.* 10, 1838.

Rhinodon, *A. Smith.* *Müll. & Henle, Plag.* 77.

1. RHINEODON TYPICUS. The Rhineodon.

Rhineodon typicus, *Smith, Illust. Zool. S. Afr.* pl. xxvi. 1849.
Müll. & Henle, Plag. 77.

HAB.—Cape. Mus. Paris.

B. *Dorsal-fin single; anal distinct; gill-slits six or seven.*

Squali (§ 3), *Müll. & Henle, Mag. Nat. Hist.* ii. 1838. *Plagiost.*

11. Head flat. Nostrils with a small three-cornered flap. Upper corner fold of the mouth very large; the under one small. Nictitating membrane wanting. Tongue adhering. The spout-holes upright, small. From six to seven gill-openings, decreasing gradually in size from first to last, all before the breast-fins. A middle tooth in the under-jaw. The next five or six teeth of the under-jaw form a saw, which runs from above and within downwards and outwards; the fore and inner edges of the teeth are entire or finely serrated throughout. The outermost jaw-teeth are low and flat. The upper-jaw teeth are longer, narrower, and more pointed: the first denticle or point is much longer than the rest; the outer edge thick, the inner one finely serrated, toothed towards the base. The foremost teeth form a heap, and are hook-formed from a broad base. The next following ones have one, or a pair of lateral denticles on the outer side. The outermost teeth as in the upper-jaw. Distinct lateral lines. The first back-fins between the belly-fins and anal, sometimes nearly over the anal. Tail-fin with a small under lobe, notched at the end, which is obliquely or directly truncated. No tail-pits. Gut-valve screw-formed.—HEXANCHINA.

Notidiani, *Müll. & Henle, Plag.* 80.

Notidanini, *Bonap. Selach. Tab. Anal.* 9, 1838.

Monopterhinus, *Blainv. Bull. Soc. Phil.* 121, 1816. *Jour. de Phys.* 263, 1816.

Notidanus, *Cuv. Règ. An.* 2 ed. ii. 340. *Müll. & Henle, Mag. Nat. Hist.* ii. 1838.

1. HEXANCHUS.

Six gill-openings. ●

Hexanchus, *Rafin. Caratt.* 10, 1810. *Müll. & Henle, Mag. Nat. Hist.* ii. 1838. *Plagiost.* 80.

Notidanus, sp., *Cuv. Règ. An.* 2 ed. ii. 390. *Bonap. Faun. Ital.*

Monopterhinus, sp., *Blainv. Bull. Soc. Phil.* 121, 1816.

1. HEXANCHUS GRISEUS.

Piscis vacca Scilla, t. 1 (teeth), t. 27 (head), t. 28, f. 1 (the whole fish).

- Le Griset, *Brouss.* 665, 13.
Squalus griseus, *Linn. Gmel.* 1495, 22. *Bloch, Schneid.* 129.
Risso, Ichth. Nice, 6. *Blainv. Faun. Fr.* 77.
 Le Squale Griset, *Lacép.* i. 269.
Squalus vacca, *Bloch, Schneid.* 138.
Hexanchus griseus, *Rafin. Caratt.* 14. *Müll. & Henle, Plag.* 80.
Notidanus monge, *Risso, Hist. Nat.* iii. 129.
Squalus Notidianus Griseus, *Cuv. Règ. An.* 2 ed. ii. 390.
Notidanus griseus, *Bonap.* 12. *Agassiz*, iii. t. e, f. 2 (teeth).
Feuill. 71.
Monopterhinus griseus, *Blainv. Bull. Soc. Phil.* 121, 1816.
 HAB.—Mediterranean.
 a. Stuffed. Adult. Isle of Wight. Presented by Capt. Swinburn, R.N.
 b. *Jaws. Isle of Wight. Presented by Capt. Swinburn, R.N.
 c. Portion of under-jaw. From Dr. Mantell's collection.

2. HEPTRANCHUS.

Seven gill-openings.

- Heptranchus*, *Rafin. Caratt.* 10.
Heptanchus, *Müll. & Henle, Mag. Nat. Hist.* ii. 1838. *Playgiost.*
Notidanus, sp., *Cuv. Règ. An.* 2 ed. ii. 390.
Monopterhinus, *Blainv. Bull. Soc. Phil.* 121, 1816. *Jour. de Phys.* 263, 1816.

1. HEPTRANCHUS INDICUS. Indian Perlon.

- Heptanchus indicus*, *Müll. & Henle, Plag.* 82.
Notidianus Griseus des Indies, *Cuv. Règ. An.* 2 ed. ii. 390, *Note.*
Notidanus indicus, *Agassiz*, iii. t. e, f. 1. *Feuill.* 71. (teeth).

HAB.—Indian Ocean.

- a. Stuffed. Cape Seas. From Dr. A. Smith's collection.
 b. Stuffed. Cape Seas. From the Zoological Society of London.

2. HEPTRANCHUS CINEREUS. The Perlon.

- Le Perlon, *Brouss.* 668, 17.
Squalus cinereus, *Linn. Gmel.* 1497, 26. *Bloch, Schneid.* 133.
Tenore, Soc. Pontan. Risso, Ichth. 24. *Blainv. Faun. Fr.*
 80.
 Le Squale Perlon, *Lacép.* i. 222.

Le Perlon (*Squalus Notidianus cinereus*), *Cuv. Règ. An.* 2 ed. ii. 390.

Notidanus cinereus, *Bonap.* xii.

Monopterhinus cinereus, *Blainv. Bull. Soc. Phil.* 121, 1816.

Heptranchus cinereus, *Müll. & Henle, Plag.* 81. *Rafin. Caratt.* 13.

HAB.—Mediterranean, Ocean.

a. Stuffed. From the Antarctic Expedition. Presented by the Admiralty.

c. *Anal none; dorsal-fins two; nictitating membrane none. The five gill-holes all before the breast-fins; gut-valve spiral; spiracles distinct.*

Squali (§ 4), *Müll. & Henle, Mag. Nat. Hist.* ii. 1838. *Plagiost.*

12. A spine before each back-fin.—ANCANTIANA.

Acanthorhinus, sp., *Blainv. Bull. Soc. Phil.* 121, 1816. *Jour. de Phys.* 263, 1816. *Müll. & Henle, Mag. Nat. Hist.* ii. 1838.

Spinaces, *Müll. & Henle, Plag.*

Spinax, *Cuv. Règ. An.* 2 ed. ii. 390.

Spinacini, *Bonap. Selac. Tab. Anal.* 4, 8, 1838.

1. ACANTHIAS.

Head flat. Large corner pits to the mouth. Two labial cartilages above, one below. The mouth forms a very flat arch. Spout-holes big, behind, and somewhat above the eyes, a roll-like flap to the spout-hole, springing from its fore edge. The eye-openings are long! Teeth above and beneath, cutting with an almost horizontal edge, and a point inclined outwards. The root of the tooth is higher on the inner part than on the outer, and has a longitudinal keel on the inner one; the outer part forms a round ledge towards the point of the tooth. First back-fin between the breast and belly-fins. Second betwixt the belly-fins and caudal. The upper lobe of the latter is the bigger one. A tail-pit exists in some. The males have on the outside of the ends of their appendages a moveable prickle or spine, with a slightly curved tip. Scales heart-shaped, with a middle point, and one or more keels.

Acanthias, *Bonap. Selac. Tab. Anal.* 8, 1838. *Müll. & Henle, Mag. Nat. Hist.* ii. 1838. *Plagiost.* 84.

Acanthorhinus, sp., *Blainv. Bull. Soc. Phil.* 121, 1816.

Spinax (*Acanthias*) sp., *Cuv. Règ. An.* 2 ed. ii. 392, 1817.

Squalus, *Rafin. Caratt.*

1. ACANTHIAS BLAINVILLII. Blainville's Dog-fish.

Acanthias Blainvillii, *Risso, Hist. Nat.* iii. 133, f. 6. *Müll. & Henle, Plag.* 84.

Spinax Blainvillii, *Bonap.* ix. *Agassiz*, iii. t. B, f. 1, 6, 8.

HAB.—Mediterranean, Ocean.

a, b. In spirits. Dalmatia: From Dr. Heckle's collection.

c. Stuffed. Cape Seas. From Dr. A. Smith's collection.

2. ACANTHIAS VULGARIS. Spined Dog-fish.

Acanthias vulgaris, *Risso. Müll. & Henle, Plag.* 83. *Risso. Hist. Nat.* iii. 131.

Galeus acanthias, *Klein, Misc. Pisc.* iii. 8 (?), t. 1, f. 5, 6. *Fabr.*

Squalus acanthias, *Linn. Mus. Ad. Fr.* 53. *Faun. Suec. Retz.*

305. *Fabric. F. Gr.* 126. *Bloch*, 85. (Copied from *Encycl. f.*

12). *Gmel. Syst. Nat.* 1500, 1. *Bloch, Schneid.* 135. *Risso,*

Ichth. 40. *Donovan*, n. 82. *Fabr. Isl.* 29. *Nils. Prod.* 117.

Blainv. Faun. Fr. 57, pl. 14, f. 1.

? *Haac, Ström. Sönd.* 280.

L'aiguillat, Brouss. 673, 22.

Squalus pinna ani nulla, ambitu corporis subrotundo, Artedi, Gen. Pisc. 505.

Squale aiguillat, Lacép. i. pl. 10, f. 2, p. 270.

Spinax acanthias, Flem. Brit. An. 166. *Bonap. Faun. Ital.* t.

Jenyns, Brit. An. 505. *Agassiz, Fossil Fish*, ii. t. B, f. 3.

Parn. Ichth. Forth. 260. *De Kry, Nat. Hist. of New York,*

359, t. 64, f. 210, 1842.

Acanthorhinus acanthias, Blainv. Bull. Soc. Phil. 121, 1816.

Picked Dog-fish, *Yarr. Brit. Fish.* ii. 400.

Squalus (Spinax) acanthias, Cuv. Règ. An. 2 ed. ii. 392. *Rich. Faun. Bor. Amer.* iii. 291, 1836.

HAB.—Mediterranean, North Sea, Ocean, South Sea.

a. Stuffed. New Holland?

b. Stuffed.

c. Stuffed. Presented by Gen. Hardwicke.

d, e. Stuffed. Cape Seas? From Dr. A. Smith's collection.

f. Stuffed. Cape Seas. From Dr. A. Smith's collection.

g. Young. English Coast.

h. Stuffed. Cape Seas? From Dr. A. Smith's collection.

i. Stuffed.

- j. Stuffed. Firth of Forth, Scotland. From Dr. Parnell's collection.
- k. In spirits. Dalmatia. From Dr. Heckle's collection.
- l, m. In spirits. Mediterranean.
- n. In spirits. Plymouth Sound. From Dr. Leach's collection.

3. ACANTHIAS UYATUS. The Uyatus.

- Acanthias uyatus*, Müll. & Henle, *Plag.* 85.
- Squalus uyatus*, Rafin. *Carutt.* 14.
- Spinax uyatus*, Bonap. ix.
- Squalus infernus*, Blainv. *Faun. Fr.* 59, pl. 14, f. 5.
- HAB.—Mediterranean.

2. SPINAX.

Head arched. Snout blunt. Nostrils at the end of the snout. Corner folds of the mouth very large, naked. The under one, in form of a naked ledge, runs lengthways round the under margin of the mouth and unites with its fellow. An upper corner cartilage of the mouth. Mouth little arched. Under-teeth as in *Acanthias*, but without the keel and apophysis of the base: the upper-teeth as in *Scyllium*, with a larger, straight, conical, middle prong, and two pointed lateral prongs on each side; the outer of which is the smaller. No tail-pits. No prickle on the male appendages. Bent hairs instead of scales.

- Spinax*, Bonap. *Selac. Tab. Anal.* 8, 1838. Müll. & Henle, *Mag. Nat. Hist.* ii. 1838. *Plagiost.* 86.
- Acanthorhinus*, sp., Blainv. *Bull. Soc. Phil.* 121, 1816.
- Spinax*, sp., Cuv. *Rég. An.* 2 ed. ii. 7, 392.
- Centrina*, sp., Lowe, *Proc. Zool. Soc.* 1833.
- Acanthidium*, Lowe, *Proc. Zool. Soc.* 1839.

1. SPINAX NIGER. Black *Centrina*.

- Galeus acanthias*, s. *Spinax fuscus*, Ray, 21, n. 9.
- Der Schwarze Harfisch, *Squalus spinax* (Sorthaæ), Gunn. *Dronth. Gisel Schroft.* ii. 285, t. 7.
- Squalus Spinax*, Müll. *Prod.* 37, n. 312. *Gmel. Syst. Nat.* 1501, 8. *Bloch, Schneid.* 135. *Nils. Prod.* 116. *Jenyns, Brit. An.* 505. *Bonap. Faun. Er.* 60.
- Le Sagre, Brouss. 675, n. 23. *Lacép. i.* 274. *Risso, Hist. Nat.* iii. 132.

Squalus pinna ani carens, naribus in extremo rostro, *Artedi, Gen. Pisc.* 506.

Blaataske, *Ascanias*, 37.

Centrina nigra, *Lowe, Proc. Zool. Soc.* 1833, pt. 1, p. 144.

Acanthorhinus spinax, *Blainv. Bull. Soc. Phil.* 121, 1816.

Spinax niger, *Bonap. Faun. Ital.* 12. *Müll. & Hentle, Plag.* 86. *Agassiz*, iii. t. B, f. 4, 5, 9.

Acanthidium pusillum, *Lowe, Proc. Zool. Soc.* 91, 1839.

HAB.—N. Sea, Mediterranean and Madeira.

3. OXYNOTUS.

Snout short, thick and flat. Nostrils near the edge of the same. Nasal-flap four-sided. The corner fold of the naked labial cartilages united above and below on the mesial line with the skin of the head. Spout-holes very large behind and somewhat above the eyes, having an upward and downward direction, crescentic, with one flap. Upper-teeth slender, conical, and little cutting, straight, connected with the skin of the fore part of the jaw. The base of these teeth is notched in the middle. The under-teeth are either straight or nearly so, and the outer ones inclined very slightly outwards, broader and flatter than the upper ones, very keenly cutting, nearly equilateral, finely serrated on the edge. The middlemost tooth is single, exactly equilateral; the base of the under-jaw teeth nearly four-cornered. The spine of both back-fins is enveloped to the point in the skin. Tail-fin without an under lobe, and having no notch. The males have appendages which are wholly soft, without a spine. Scales upright, points standing on a four-sided base.

Oxynotus, *Rafin. Caratt.* 1810.

Acanthorhinus, sp., *Blainv. Bull. Soc. Phil.* 121, 1816.

Centrina, *Cuv. Règ. An.* 2 ed. ii. 392, 1817. *Müll. & Hentle, Mag. Nat. Hist.* ii. 1838. *Plagiost.* 87. *Bonap. Selach. Tab. Anal.* 8, 1838.

1. OXYNOTUS CENTRINA.

Vulpecula, *Belon.* 63.

Vulpecula italica, *Belon.* 64.

Centrina, *Rond.* 384. (Copied from *Gesner*, 719). *Jonst.* vii. 5. *Salviani*, 157, f. 56, 57. (Copied from *Willoughby*, ii, 3). *Ruysch*, t. vii. f. 4, t. 31, f. 1. *Ray, Ichth.* 21.

- Galeus centrina, *Gesner*, 1250. *Jonst.* t. 7, f. 4, 5.
 Centrine, *Mus. Worm.* 273.
 Galeus brevis crassus, *Klein, Misc. Pisc.* iii. 10.
 Haa-therning, *Pontopp. Th.* ii. t. 209.*
 Squalus centrina, *Brunnich*, 3, n. 7. *Müll. Prod.* 37, n. 313.
Bloch, Schneid. 115, 134. (Copied from *Encycl. Méth.* f. 13).
Shaw, Gen. Zool. 153. *Linn. Gmel.* 1502. *Risso, Ichth.* 42.
Blainv. Faun. Fr. 61, pl. 15, f. 1.
 L'humantin, *Brouss.* 676, 25. *Lacép.* i. 276, pl. 9, f. 3.
 La Mielga, *Cornide*, 128.
 Squalus pinna ani carens, ambitu corporis triangulari, *Artedi, Gen. Pisc.* 506.
 Oxynotus centrina, *Rafin. Ind.* 45, 60.
 Centrine humantin, *Dict. Sci. Nat.* pl. 31.
 Centrina Salviani, *Risso, Hist. Nat.* iii. 135. *Müll. & Henle, Plag.* 87. *Bonap.* 14.
 HAB.—Mediterranean.
 a. Stuffed. From the Chatham Museum.

4. ACANTHORHINUS.

Head flat. Nostrils near the fore end of the snout. Corner folds of the mouth naked, very large and deep. A slit of the skin proceeds backwards from the same. Spout-holes behind and above the eyes, with a flap. The fourth and fifth gill-holes are approximated to each other. Teeth in the under-jaw as in *Acanthias*, but with the edge less lying; this is either indistinctly toothed or entire. The root has a middle upright keel with a cross lobe on the outer side standing forwards. The upper teeth straight, equilateral, three-cornered on a four-sided base, with a longitudinal keel and a cross one; no denticulations and no supplementary prongs. The longitudinal keel is continued over the fore surface of the tooth, whereby it becomes thicker in the middle. No middle-tooth. No tail-pit. The males have a prickle in their appendages, which is placed on their outer side before their ends.

- Centrophorus*, *Müll. & Henle, Mag. Nat. Hist.* ii. 1838. *Plagiost.* 89. *Bonap. Selac. Tab. Anal.* 9, 1838.
Acanthorhinus, sp., *Blainv. Bull. Soc. Phil.* 121, 1816.
 ? *Acanthidium*, sp., *Lowe*.
Scymnus, sp., *Cuv. Règ. An.* 2 ed. ii. 393.
Lepidorhinus, *Bonap. Selac. Tab. Anal.* 9, 1838.

1. ACANTHORHINUS GRANULOSUS. Granulose Shark.

Centrophorus granulatus, Müll. & Henle, *Plag.* 89.
Squalus granulatus, Bloch, *Schneid.* 135.
 ? *Acanthidium calceus*, Lowe, *Proc. Zool. Soc.* 92, 1839.
Acanthorhinus granulatus, Blainv. *Bull. Soc. Phil.* 121, 1816.
 HAB.—Mediterranean, Sicily.

2. ACANTHORHINUS SQUAMOSUS. Scaly Shark.

Centrophorus squamosus, Müll. & Henle, *Plag.* 90.
L'écailleux, Brouss. 675, 24. *Lacép.* i. 284.
Squalus squamosus, Linn. *Gmel.* 1502, 28. *Bloch, Schneid.* 136.
Shaw, Gen. Zool. 328.
Squalus (Scymnus) squamosus, Cuv. *Rég. An.* 2 ed. ii. 393.
Acanthorhinus squamosus, Blainv. *Bull. Soc. Phil.* 121, 1816.
Lepidorhinus squamosus, Bonap. *Selac. Tab. Anal.* 9, 1838.
 Hab. ———? Mus. Paris and Berlin.

5. CENTROSCYLLIUM.

Upper and under-teeth similar, straight, pointed, and with one or two adjoining prongs on each side as in *Scyllium*. On account of the similar constitution of the teeth in both jaws distinguished from the dentition of the genus *Spinax* of Buonaparte. Scales of the skin pointed with a stellate base.

Centroscyllium, Müll. & Henle, *Plag.* 191.

1. CENTROSCYLLIUM FABRICII. Fabricius' Shark.

Centroscyllium Fabricii, Müll. & Henle, *Plag. Nachtr.* 191.
Spinax Fabricii, Reinhardt.
 HAB.—Greenland.

13. The back-fins without spines.—DALATIANA.

Scymni, Müll. & Henle, *Plag.*
Scymnini, Bonap. *Selac. Tab. Anal.* 9.
Scymnus, Cuv. *Rég. An.* 2 ed. ii. 393. Müll. & Henle, *Mag. Nat. Hist.* ii. 1838.



1. DALATIAS.

Head either flat or compressed on the sides. Spout-holes far behind and somewhat above the eyes. The teeth of the upper-jaw wholly straight, or upright on the jaw, hooked, the under ones broader, with an upright or inclined edge. Gill-openings small, the fourth and fifth only a little approximated. No tail-pit.

• *Dalatias*, Rafin. *Caratt.*

Scymnus, part, *Cuv. Rég. An.* 2 ed. ii. 392.

Scymnus, Müll. & Henle, *Mag. Nat. Hist.* ii. 1838.

1. The upper corner fold of the mouth is connected by a skinny ledge, under which before the teeth there lies a very conspicuous skinny lip, much longer than the upper-teeth: the under corner fold of the mouth passes into a lip which is very free, but is not separated from the skin of the throat by a furrow. The skin forms beneath the eye a free border towards the large naked region of the corner of the mouth. The under-teeth are lancet-formed, convex in the middle of the anterior surface, sharp on the sides, the lancet-shaped point rising from a high base. The under mid-tooth, which is no smaller than its neighbours, has a base with both its sides equal (and a notch at the commencement of the root). The root is larger than the point; two lobes on the edge of the jaw, with a notch between the two lobes, from which there runs a channel up to an opening in the middle of the root of the tooth. The remaining teeth in the under-jaw have an indentation on their inner sides wherein the root of the adjoining tooth lies: their root is also two-lobed and has the same channel. The upper-jaw teeth stand straight forwards, and their sides are inclined outwards. The claspers are without a spine.—DALATIAS.

Dalatias, Rafin. *Caratt.*

Scymnus, Müll. & Henle, *Plag.*

Scymnus, sp., *Cuv. Rég. An.* 2 ed. ii.

1. DALATIAS LICHIA. The Lichia.

Canis centrinxæ Salviani similis absque aculcis, *Sten. Hist. Diss. Pisc.* 138.

Seehund, *Valentini, M. m.* 1, 484.

Liche, *Brouss.* 677, 26.

Squalus americanus, *Linn. Gmel.* 1503. *Bloch, Schneid.* 136.

Blainv. Faun. Fr. 63, pl. 15, f. 2.

Squale liche, *Lacép.* i. 279, t. 10, f. 3.

Squalus nicéen, *Risso, Hist. Nat.* iii. 136, f. 4.

Scymnus lichia, *Bonap. Faun. Ital.* 14. *Agassiz*, iii. t. F, f. 7.
Müll. & Henle, Plag. 93.

Dalatias sarophagus, *Rafn. Caratt.* t. 13, f. 2.

HAB.—Mediterranean, Ocean, Cape Breton, Bayonne.

a. Stuffed. Maderia. From Mr. Lowe's collection. Presented by the Zoological Society.

2. DALATIAS BRASILIENSIS. Brazilian Lichia, .

Scymnus (Scymnus) brasiliensis, *Cuv. Müll. & Henle, Plag.* 92.
Scymnus brasiliensis, *Cuv. Freycinet, Voy.* 198.

HAB.—Isle of France, St. Jago, Rio de Janeiro.

2. The skin forms a very large slit at the corner of the mouth, and a ledge covering the dental cartilage beneath, which is wanting above. Upper corner fold of the mouth very large, and naked, under one very small. The upper teeth small, much longer than broad, conical, little cutting; the fore ones and the adjoining ones straight; the outer ones bent slightly, somewhat outwards; all without serratures. An upright keel on the basal part of the anterior surface; the root notched in the middle. Many rows stand upright together. The under teeth are much broader and longer, with a lying edge, and a point inclined outwards as in *Acantbias*, without serratures. The root long, flat, with an upright keel on the anterior surface, excavated lengthways on the sides. The outer edge of the base, which is higher than broad, is convex; the inner one shallowly excavated; the under one rounded, and notched in the middle. The males have a spine in their claspers.—SOMNIOSUS.

Somniosus, *Lesueur, Ann. Nat. Sci. Philad.* 1.

Læmargus, *Müll. & Henle, Mag. Nat. Hist.* ii. 1838. *Plagiost.* 93.

Scymnus, sp., *Cuv. Règ. An.* 2 ed. ii. 392. *Flem. Brit. An.* 106.

3. DALATIAS (SOMNIOSUS) BOREALIS. Northern Shark.

Scymnus (Læmargus) borealis, *Müll. & Henle, Plag.* 93. *Gaim. Voy. Poland, Poissons*, t. 22.

Carcharias Haa-Skierding, *Gunn. Dronth.* ii. 299, t. 10, 11.

Squalus carcharias, *Mull. Prod.* 38,

Carcharias, *Mohr. Fors.* 57.

- Squalus microcephalus*, Bloch, Schneid. 135.
Somniosus brevipinna, Lesueur, Phil. Journ. i. pt. 2, p. 222.
Squalus borealis, Scoresby, Arct. Reg. i. 358, t. 15, f. 3, 4.
Scymnus borealis, Flem. Brit. An. 166. Jenyns, Brit. An. 506.
Squalus (*Scymnus*) *glacialis*, Fabr. Isl. 23.
Scymnus micropterus, Valenc. Nouv. Ann. du Mus. i. 455, 20.
Squalus glacialis, Nils. Prod. 116.
 Greenland Shark, Yarr. Brit. Fish, ii. 403.
Squalus norwegianus, Blainv. Faun. Fr. 61.
Squalus (*Scymnus*) *Gunneri*, Rich. Faun. Bor. Amer. iii. 313.
Scymnus brevipinna, De Kay, Nat. Hist. of New York, 361, pl. 61,
 f. 202, pt. 1. Zool. 1842.

HAB.—North Sea.

a, b. Stuffed. English Coast. Presented by Messrs. J. & C. Grove.

4. DALATIAS (SOMNIOSUS) BISPINATUS.

- Scymnus* (*Læmargus*) *Labordii*, "Quoy. et Gaim." Müll. & Henle, Plag. 94.
Scymnus bispinatus, Leiche Laborde, Quoy. & Gaim. Freyc. 197, pl. 44, f. 1, 2.
Scymnus mauritanus, Quoy. & Gaim. Dict. Class. liv. ii.

HAB.—Isle of France, Isle of Bourbon.

5. DELATIAS (SOMNIOSUS) ROSTRATUS.

- Scymnus* (*Læmargus*) *rostratus*, Müll. & Henle, Plag. 95.
Scymnus rostratus, Risso, Hist. Nat. iii. 138, f. 7.

HAB.—Mediterranean Sea.

2. ECHINORHINUS.

Head flat. Corner pits of the mouth remote. Tongue bound down. Teeth broad and low, with a nearly horizontal edge, which is turned inwards somewhat beyond the root, equal in both jaws. The side edges with from one to three successive denticles, which diminish in size from the edge towards the root. In the middle of the under-jaw a gap with a very small mid-tooth of a pyramidal shape. First back-fin over the belly-fins; the second between the

belly-fins and tail-fin. Tail-fin without an under lobe. Gill-openings not very wide; all before the breast-fins.

Echinorhinus (spinosus), *Blainv. Bull. Soc. Phil.* 121, 1816. *Jour. de Phys.* 1816. *Müll. & Henle, Plag.*

Echinorhinus, *Müll. & Henle, Mag. Nat. Hist.* ii. 1838.

Ganiodus, *Agassiz, Poiss. Fos.*

1. ECHINORHINUS SPINOSUS.

Le Bouclé, *Brouss.* 672, 21.

Squalus spinosus, *Linn. Gmel.* 1500, 27. *Bloch, Schneid.* 136.

Squale Bouclé, *Lacép.* i. 30, t. iii. f. 2. (Copied from *Encycl.* 11, n. 22). *Risso, Ichth.* 42.

Scymnus spinosus, *Risso, Hist. Nat.* iii. 136.

Squalus (Scymnus) spinosus, *Cuv. Règ. An.* 2 ed. ii. 393.

Leiche bouclée, *Dict. Sci. Nat.* pl. 28, f. 2.

Echinorhinus spinosus, *Blainv. Bull. Soc. Phil.* 121, 1816. *Bonap.* 13. *Müll. & Henle, Plag.* 96. *Yarr. Brit. Fish.* 532.

Squalus (Echinorhinus) spinosus, *Blainv. Faun. Fr.* 66.

Ganiodus, *Agassiz, Poiss. Fos.* iii. t. E, f. 13.

Echinorhinus obesus, *Smith, Pisc.* pl. 1 (male), 1339.

HAB.—Mediterranean, Cape Seas, Ocean.

Fam. 3. SQUATINIDÆ.

Body flat above and below. Mouth at the fore end of the snout. Eyes on the dorsal aspect. Spout-holes large behind the eyes. The large anteriorly expanded breast-fin interposes the fore end of its root between the head and body, and is divided from them by a furrow. In the depth of this furrow lie the gill-openings, which follow close to one another and are separated merely by folds of skin.

Squatina, *Dum. Zool. Anal.* 1806.

Rhina, *Rafn. Caratt.* 1810.

Squatina, *Blainv. Bull. Soc. Phil.* 121, 1816. *Jour. de Phys.* 263, 1816. *Müll. & Henle, Mag. Nat. Hist.* ii. 1838.

Squatina, *Müll. & Henle, Plag.* 99.

Squatini, *Bonap. Selac. Tab. Anal.* 8, 1836.

Squalidæ anomali, *Bonap. Selac. Tab. Anal.* 4, 1836.

1. SQUATINA.

Spout-holes much larger than the eyes, crescentic, convex before, concave behind, as far behind the eyes as the eyes are from the point of the snout. Above the mouth a broad lip, on whose fore border the nostrils stand, notched in the middle. On each side of the nostrils a long lappet. The nostrils with a flap at the inner corner, which is divided into many scalloped lappets; on the outer corner of the nostril a broad indented flap of skin. A ledge of skin commences at the outer corner of the nostril, and running on the side of the head, terminates at the place where the fore point of the breast-fin abuts against the head. This ledge is of the same breadth with the interval between the opposite eyes and spout-holes. Eye-openings round, in a line with the nostrils and spout-holes. Under-teeth interrupted in the middle; also above no mid-tooth, in the fore part conical teeth, little trenchant; the teeth scattered with spaces. Two upper and under corner cartilages of the mouth, above them a very deep recess under a vault of skin. Both back-fins upon the tail. This is compressed from above to beneath, broader than high, with a keel of skin on the side. The under part of the tail-fin is longer than the upper one. The upper lobe without a notch. Belly-fins large. The male claspers small and weak. Scales conical, vanishing in a terminal point.

Squatina, *Dum. Zool. Anal.* 1806. *Blainv. Bull. Soc. Phil.* 121, 1816. *Jour. de Phys.* 263, 1816. *Rafin. Anal. Nat.* 93, 1815. *Müll. & Henle, Plag.* 99.
Rhina, *Klein. Rafin. Caratt.* 9, 1810.

1. SQUATINA VULGARIS. Angel-fish.

Squatine, *Rond. (Copied from Aldrovand, 472).*
Squatina, *Belon, 78. Salviani, 152, f. 53. (Copied from Jonston, xi. 7). Willoughby, D, 3. Ruysch, Thes. xi. 7. Moscardo, 225. Ray, 26, n. 6. Duhamel, sect. ix. pl. 14, f. 1—4.*
Rhina, *Klein, Misc. Pisc. iii. 14. Rafin. Caratt. 9.*
Squalus capite plagio-plateo, ore in apice capitis, pinna ani nulla, naribus cirrosis, *Gronov. Act. Ups. n. 5. Mus. i. 63, 137.*
Angel-fish, *Borlase, Cornw. 5, n. 12. Yarr. Brit. Fish. ii. 407.*
Angel, *Pennant, t. xii.*
L'Ange, *Brouss. 678, 27.*
Squalus squatina, *Brunnich, 5. Bloch, 116. (Copied from Encycl. t. 5, f. 14). Linn. Gmel. 1503. Bloch, Schneid. 137. Donov. i. n. 17.*
Angelo ó peje angel, *Cornide, 129.*

Angel Shark, *Shaw, Nat. Misc.* 906.

Squalus pinna ani carens, ore in apice capitis, *Artedi, Gen. Pisc.* 507. *Synon.* 95.

Squale ange, *Lacép. i.* 239, pl. 12, f. 1. (*Copied from Shaw, Gen. Zool.* 356, t. 155).

Squatina vulgaris, *Risso, Ichth.* 45. *Müll. & Henle, Plag.* 99. *Flem. Brit. An.* 169.

Rhina squatina, *Rafin. Ind.* 45. *Caratt.* 14.

Squatine ange de mer, *Dict. Sci. Nat.* t. 21.

Squatina aculeata, *Lesueur, Phil. Ac. i.* t. 1.

Squatina angelus, *Risso, Hist. Nat.* iii. 139. *Cuv. Rég. An.* 2 ed. ii. 394. *Jenyns, Brit. An.* 507,

Squatina Dumerilii, *Lesueur, Jour. Acad. Sci.* i. 225, pl. 10, 1817. *De Kay, Nat. Hist. of New York*, 363, pl. 10, pt. 1. *Zool.* 1842.

HAB.—European Seas.

a. Stuffed. Kingston.

b. Stuffed. Adult. English Coast. Presented by Mr. Booker.

c. Stuffed. Adult. From the Chatham Museum.

d. Stuffed. Half-grown. English Coast.

e, f. Stuffed. Young. English Coast.

g. Stuffed. Young. Firth of Forth. Presented by Dr. Parnell.

h. Stuffed. Half-grown. Firth of Forth. From Dr. Parnell's collection.

i. Stuffed. Young. Plymouth. Presented by Lieut. H. F. Spence, R.N.

j. Stuffed. Young. English Coast.

k. In spirits. Young.

l. In spirits. Young. Fœtal state.

2. SQUATINA FIMBRIATA. Fringed Angel-fish.

Squatina fimbriata, *Müll. & Henle, Plag.* 100.

HAB.—Mediterranean.

3. SQUATINA ANGELINA.

Squatina Angelina.

a. In spirits. Surinam. From Mr. Franks' collection.

Sub-section II. RAII.

Plagiostomi with flat bodies and spout-holes; gill-slits five before the belly-fins and under the pectorals; the eyes with an adhering upper eyelid or without an eyelid, with a complete scapular ring and naso-pectoral cartilages.

Pisces cartilaginei plani et lati, *Ray, Syn. Pisc.* 23.

Raia, *Linn.*

Les Raies (Raia), *Cuv. Règ. An.* 2 ed. ii. 373.

Platosomia, *Rafin. Anal. Nat.* 93, 1815.

Rajæ, *Müll. Abh. Akad. Berl.* 1836. *Plagiost.* 103.

Raidæ, *Gray, Syn. B. M.* 148, 150, 1842.

Dumeril (*Zoologie Analytique*, 101, 1806, 8vo.) divides the *Plagiostomes* thus:—

A. Branchial holes below; body flat.

1. *Torpedo*.—Tail short; body smooth, naked.
2. *Raia*.—Tail long, narrow at the base.
3. *Rhinobatus*.—Tail long, very thick at the base.

B. Branchial holes lateral; body rounded.

4. *Squatina*.—With teeth; pectoral-fins nighed.
5. *Squalus*.—With teeth; pectoral-fins entire.
6. *Aodon*.—Without teeth.

Rafinesque (*Caratteri Nuovi Generi*, 1810, 8vo.) proposes and characterizes the following genera of rays (*Raia*):—

1. *Leiobatus* (*Panduratus*). — 2. *Dipturus* (*Batis*). — 3. *Dasyatis* (*Ujo*). = *Uroxys* (*Ugo*), *Index*.

In his *Analyse de la Nature*, 1815, he formed the Rays into a family he called *Platysomia*, containing the following genera:—

1. *Rhinobatus*, *Dumeril*.—2. *Platopterus* = *Raia*, *Linn.*—3. *Leiobatus*.—4. *Epinotus*.—5. *Lymnea* (afterwards changed to *Noctius*, p. 220).—6. *Torpedo*, *Dumeril*.—7. *Dipturus*.—8. *Mobula*.—9. *Ictætus*.—10. *Cephalcutherus*.—11. *Sephenia*.—12. *Megalatus*.—13. *Dasyatus*.—14. *Uroxys*.—15. *Apturus*. The names in Italic are new, but he neither gives types nor characters, so that it is impossible to understand for what they are intended.

M. De Blainville (*Bull. Soc. Phil.* 121, 1816, and *Jour. de Phys.* 262, 1816), divides the Rays (*Raia*) into eight sub-genera, thus:—
 1. *Dasybatus* aut *R. communis*.—2. *Trigonobatus* aut *R. pastinacæ*.—3. *Ætobatus* aut *R. aquilæ*.—4. *Dicerobatus* aut *R. cornutæ*.—5. *Leiobatus* aut *R. lævis*.—*R. cruciatus*.—6. *Narcobatus* aut *R. torpedinus*.—7. *Rhinobatus* aut *R. squali*.—8. *Pristobatus* aut *R. serratæ*.

Cuvier (*Règne Animal*, 2 ed. ii. 394, 1829) divides these animals thus:—

I. *Pristis*.

II. *Raja*, subdivided thus:—1. *Rhinobatus* (* *Rhynchobatus*. ** *Rhinobatus*, *Müll. & Henle*).—2. *Rhina*.—3. *Torpedo*.—4. *Raia*.—5. *Trygon*.—6. *Anacanthus*.—7. *Myliobatis*.—8. *Rhinoptera*.—9. *Cephaloptera*.

Müller and Henle (*Mag. Nat. Hist.* 89, 1838) give the following outline of their arrangement:—

I. *PRISTIS*.—Which should be placed next the sharks, including

1. *Pristiophorus*.—The branchial apertures on the side of the neck before the pectoral-fins, which begin with a slender base as in the sharks; the fifth branchial opening close to the fourth, as in many *Scyllia*; teeth pointed. *P. cirrhatus*.

2. *Pristis*.—The teeth pavement-like; the branchial apertures on the lower surface, as in other skates,

II. *RHINOBATIS*.—In two divisions and five genera, thus:—

a. *First dorsal-fin opposite to the abdominal ones; caudal-fin ending in two lobes; mouth undulated.*

1. *Rhina*, Schneid. —The nasal-valves extending to the interior corner of the nostrils; body orbicular; teeth round.

2. *Rhynchobatis*, Müll. & Henle.—The nasal-valve does not extend to the interior or corner of the mouth; body oval, as in *Rhinobatus*; teeth broader than long, elliptical.

b. *The two dorsal-fins placed upon the tail; extremity of the caudal-fin cut obliquely, forming only one lobe.*

3. *Rhinobatus*.—The nasal-valve like *Rhynchobatis*.

4. *Platyrhina*, Müll. & Henle.—The nasal-valve extends beyond the inner corner of the nostril nearly to the middle of the snout, which is obtuse, and the body orbicular, approaching to Torpedo.

5. *Trygonorrhina*, Müll. & Henle.—Tail of *Rhinobatus*, with nose of *Trygon*.

III. The TORPEDINES contain four genera:—1. *Torpedo*.—2. *Narcine*, Müll. & Henle.—3. *Astrape*, Müll. & Henle.—4. *Temera*, Gray.

IV. The true RAJÆ contain three genera:—

1. *Raia*, Cuv.

2. *Sympterygia*, Müll. & Henle.—Tail of *Raia*; the pectoral-fins, which do not reach the keel of the snout in the true *Raja*, in this genus extend to the mesial lines, touching each other with their interior edges; the abdominal fin is not divided into two lobes by an incision as it is in *Raja*.

3. *Uraptera*, Müll. & Henle.—Differs from *Raja* only by the want of a caudal-fin.

The genus *Propleygia*, Otto, is founded on a kind of monstrosity, which is not seldom met with in skates.

V. The TRYGONS, Cuv., contain the following genera:—

1. *Trygon* (Müll. & Henle), or Sting Rays.—The teeth are elliptical; the mouth transverse. They are divided into three subgenera, thus:—

a. *Trygon*.—Tail with a fin above and below.

b. *Hemistrygon*.—Tail with a fin on the lower side only.

c. *Himantura*.—Tail without any fin.

2. *Pteroplatea*, Müll. & Henle.—The Sting Rays with the body broader than long; the tail shorter than the body; the teeth terminating in one or three points.

3. *Taniura*, Müll. & Henle.—Tail with no upper fin; lower one extending to the tip; teeth pointed, with an elliptical base; mouth undulated; the projecting part of the upper-jaw forms a sharp edge on each side.

4. *Hypolophus*, Müll. & Henle.—Tail very high, with lower fin not reaching to the tip; teeth hexagonal, very small in the middle of the upper-jaw, and large on the sides.

5. *Urolophus*.—Tail with a fin at the tip; teeth as in *Raja*, bearing in the middle a wreath or point.

VI. *Another family* has the tail of Trygon, but wants the sting on the tail.

1. *Anacanthus*, Ehrenb.—Tail without any fin.
2. *Urogymnus*, Müll. & Henle.—Tail with a low fin on the upper side, not reaching to the tip.

VII. The MYLIOBATIS, *Cuv.*, form a family with large teeth, arranged as in a pavement or like mosaic-work; the pectoral-fins are separated from the head; the tail has a fin in its root, and a spine behind the fin.

1. *Myliobatis*.—The teeth large in the middle, and small on the sides of the jaw; the nasal-valve has a smooth edge; the fins of the head united.

2. *Ætobatis*, Müll. & Henle.—The fins of the head united by the lower-jaw project far beyond the upper one; only one row of teeth in each jaw; the nasal-valve deeply cut.

3. *Rhinoptera*, Kühl.—The fin on the head with a central excision; teeth hexagonal; plates large in the middle of the jaws, diminishing in size as they reach the sides.

VIII. The CEPHALOPTERÆ contain two genera:—

1. *Cephaloptera*, Dum.—Mouth on the under side of the body; teeth small and pointed, or like tubercles in both jaws.

2. *Ceratoptera*, Müll. & Henle.—The mouth on the top of the head; the teeth, which are distinct only in the lower-jaw, are little scales or leaves.

M. Charles Buonaparte (*Selachorum Tabula Analytica*, 1838, 4to) proposed to divide the family *Raidæ* into the following tribes and genera:—

I. *Raidæ veri*.—*Body ending abruptly in a slender tail.*

1. *Cephalopterini*.—*Head truncate, two-horned; teeth minute, placed in series; pectoral-fins very broad; tail very slender, long, spine-bearing.*—*Cephalopterina.*

1. *CERALOPTERA*.—Mouth superior; teeth small, scale-like.

2. *CEPHALOPTERA*.—Mouth inferior; teeth small, acute, or tuberculate in both jaws.

2. *Myliobatini*.—*Head ovate, produced: teeth large, flattened, tessellated; pectoral-fins very broad; tail very slender, spine-bearing.*—*Myliobatina.*

3. RHINOPTERA.—Head naked; teeth six-sided; ventral larger.
4. ÆLOBATES.—Head entire; mandibles produced beyond the maxilla; nasal-valve deeply cut; teeth in one series.
5. MYLIOBATES.—Head entire; nasal-valve truncated; teeth central, large; lateral small, in many series.
3. *Head enclosed by the pectoral-fins; teeth small, in quincuncial order.*—Raiana.
- A. Acanthini.—*Tail slender, finless and armless.*
6. UROGYMNUS.—Lower caudal-fin narrow.
7. ANACANTHUS.—Tail finless.
- B. Trygonini.—*Tail slender, with a strong doubly serrated spine.*
8. UROLOPHUS.—Tail-fin terminal; teeth tesselliform.
9. HYPOLOPHUS.—Teeth hexagonal, in centre of maxilla very small, at the sides larger; lower caudal-fin very broad.
10. TÆNIURA.—Teeth acute, base elliptical; mouth waved; margin of the jaws exerted, each cultriform; lower caudal-fin sub-apical; upper none.
11. PTEROPLATEA.—Teeth one or three, cuspid; body broader than long; tail shorter than the body.
12. HIMANTURA.—Teeth elliptical, transversely keeled; dorsal-fins none.
13. HEMITRYGON.—Teeth elliptical, transversely keeled; upper dorsal-fins none.
14. TRYGON.—Teeth elliptical, transversely keeled; upper and lower dorsal-fins distinct.
- C. Raini.—*Tail elongate, with two dorsals; body rhomboidal.*
15. URAPTERA.—Caudal none; pectoral-fins hardly produced beyond the middle of the beak; ventrals two-lobed.
16. SYMPTERYGIA.—Caudal distinct; pectoral-fins produced beyond the middle of the beak, attaining the ———; ventrals one-lobed.
17. RAIA.—Caudal-fin distinct; pectoral-fin hardly produced beyond the middle of the beak; ventrals two-lobed; beak acute.

17*. **BATIS**.—Caudal-fin distinct; pectoral-fin hardly produced beyond the middle of the beak; ventrals two-lobed; beak none; tail with electric organs.

II. *Raidæ anomalæ*.—*Body gradually tapering to the tail.*

4. **TORPEDINI**.—*Body orbicular, smooth; head rounded; tail depressed; moderately long.*

18. **TEMERA**.—Dorsals none; body rounded; spiracles near the eyes; mouth slender; internal labial-valves to both jaws.

19. **ASTRAPE**.—Dorsal one; body rounded; spiracles near the eyes; mouth slender; internal labial-valves to both jaws.

20. **NARCINE**.—Dorsals two; body roundish or angular; spiracles near the eyes; mouth slender; internal labial-valves in only one jaw; teeth extended beyond the edge of the lips.

21. **TORPEDO**.—Dorsals two; body rounded, truncated in front; spiracles far from the eyes; mouth larger.

5. **RHINOBATINA**.—*Body rhomboidal, elongated, beaked; tail thick, fleshy; dorsals two, far apart; caudal apical.*

* *Dorsals both opposite to the ventrals.*

22. **TRYGONORHINA**.—Body rhomboidal; beak triangular; caudal obliquely truncated, one-lobed.

23. **PLATYRHINA**.—Body orbicular; beak scarcely produced; caudal obliquely truncated, one-lobed; nasal-valve elongate.

24. **RHINOBATUS**.—Body oval; caudal obliquely truncated, one-lobed; nasal-valve scarcely produced.

** *Front dorsal opposite to the ventral.*

25. **RHYNCHOBATUS**.—Body oval; caudal two-lobed; nasal-valves scarcely produced to the inner angle; mouth waved; teeth broad, elliptical.

26. **RHINA**.—Body orbicular; caudal two-lobed; nasal-valves produced to the inner angles; mouth waved; teeth rounded.

6. **PRISTIDINI**.—*Body elongate, depressed in front; beak very long, flat, bony, spined on each side.*

27. **PRISTIS**.—Teeth granular; gill-slits inferior.

28. **PRISTIDOPHORUS**.—Teeth acute; gill-slits lateral; nose with free beards; eyebrows free.

Mr. Swainson (*Cabinet Cyclopædia*, ii. 319, 1839) divides these animals thus:—

I. PRISTINÆ. — 1. Pristis.

II. RAIDÆ.

Sub-fam. 1. *Trygoninæ* (String Rays). — 1. Trygon. — 2. Pastinaca. — 3. Pteroplatea. — 4. Raja. — 5. Anacanthus.

Sub-fam. 2. *Pterocephalinæ* (Eagle Rays). — 6. Myliobatis. — 7. Rhinoptera. — 8. Cephaloptera. — 9. *Ætobatis*. — 10. Pterocephala, Swains. = Cephaloptera, Dum.

Sub-fam. 3. *Torpedinæ* (Torpedo Rays). — 11. Torpedo. — 12. Temera.

Sub-fam. 4. *Squatinaæ*. — 13. Squatina.

Sub-fam. 5. *Rhinobatinaæ*. — 14. Rhinobates. — 15. Rhina.

Fam. 4. PRISTISIDÆ.

The form of the body approaches most nearly to those sharks which have the breast-fin distinctly set off from the head, and not reaching to the belly-fins. The snout is prolonged into a long saw, which bears teeth implanted on the lateral edge. The first back-fin stands close behind, or some distance above the belly-fins. The cuticular keel of the tail is not continued to the sides of the tail-fin. The skin is sleek, clothed with very small, flat, roundish, or six-cornered scales, planted like paving stones.

Pristides, Müll. & Henle, *Plag.* 105.

Squatinatoriæ, part, Müll. & Henle, *Plag.* 103.

Scymni, part, Müll. & Henle, *Plag.* 91.

Pristis, Lath. *Trans. Linn. Soc.* ii. 282. *Cuv. Rég. An.* 2 ed. ii. 394.

Pristobatus aut *Raja serratæ*, Blainv. *Bull. Soc. Phil.* 121, 1816. *Jour. de Phys.* 262, 1816.

Pristinæ, Swains. *Cab. Cycl.* ii. 219, 1839.

1. PRISTIOPHORUS.

The snout is greatly lengthened, and is beset on both sides with longer and shorter hooked spines, so that it resembles the saw of *Pristis*; the prickles are only attached to the skin, not implanted.

A long barbel on the under surface of the snout. Mouth transverse. Teeth short prickles on a roundish base, resembling the teeth of the male rays, pavement-like. The first back-fin between the breast-fin and belly-fins. A keel on the side of the snout. The fourth and fifth gill-openings approximated to each other.

Pristidophorus, Müll. & Henle, *Mag. Nat. Hist.* ii. 1838. *Plagiost.* 98.

Scymni, part, Müll. & Henle, *Plag.* 91.

Pristis, sp., *Lath. Linn. Trans.* ii. 282. *Cuv. Règ. An.* 2 ed. ii. 394.

1. PRISTIOPHORUS CIRRATUS. Tentaculated Saw-fish.

Pristiophorus cirratus, Müll. & Henle, *Plag.* 98.

Squalus tentaculatus, Shaw, *Nat. Misc.* 630.

Pristis cirratus, *Lath. Linn. Trans.* ii. t. 26, f. 5, t. 27.

Squalus anisodon, Lacép. iv. 679. *Cuv. Règ. An.* 2 ed. ii. 395.

HAB.—Australasian Seas, Japan.

a. In spirits. Japan. From Mr. Frank's collection.

b—d. Stuffed. Van Diemen's Land. Presented by R. Gunn, Esq.

e. Stuffed.

f. Rostrum. New Holland. Presented by General Hardwicke.

g. Rostrum.

2. PRISTIS.

The teeth of the saw in all respects alike, flat and cutting, pretty straight, directed outwards; they begin just before the nostrils. Nostrils far before the mouth. A long and three-cornered flap on the upper border: on the under border merely a ledge-like flap. Corner cartilages of the mouth wanting. Mouth cross and straight. Velum on the upper-jaw, with a straight edge. Teeth flat, pavement-like. The upper eyelid without projection. Spout-holes large, divided from the eyes by a broad bridge. First back-fin some way above the belly-fins. Both back-fins equally large. The tail-fin short, with or without an under lobe.

Pristis, *Lath. Linn. Trans.* ii. 282. *Cuv. Règ. An.* 2 ed. ii. 394.

Müll. & Henle, *Mag. Nat. Hist.* ii. 89, 1838, *Plagiost.* 105.

Pristobatus, *Blainv. Bull. Soc. Phil.* 121.

I. PRISTIS ANTIQUORUM.

- Pristis antiquorum, *Lath. Linn. Trans.* ii. t. 26, f. 1. *Müll. & Henle, Plag.* 105. *Linn. Faun. Suec. Retz.* 307. *Cuv. Rég. An.* 2 ed. ii. 394. *Blaiv. Faun. Fr.* 50. *Agassiz*, iii. t. G, f. 4. *De Kay, Nat. Hist. of New York*, 365, 1842.
- Serra marina, *Belon.* 66.
- Serra, *Gesn.* 728.
- Pristis, *Aldrov.* 694. *Mus. Berl.* t. 17. *Jonst.* t. 4, f. 1. (Copied in *Ruysch, Thes.* t. 5, f. 1). *Mus. Worm.* 288. *Gottorf. Kunstk.* t. 25, f. 1. *Willoughby*, 61, t. B, 9. f. 5. *Clus. Exot.* 136, t. 14. *Knorr. Delic.* 56, t. ii. 4, f. 4.
- Araguaguan, *Marcgr.* 151.
- Priste o sega, *Mosc.* 227.
- Spadon, *Dutertre*, ii. 195, f. 208. *Blasius, Anat.* t. 49, f. 13.
- Serra piscis, *Valent. Mus.* i. 488.
- Pristis s. serra piscis, *Ray, Syn.* 23, 16.
- Galeus rostro longo, plano, firmo, *Klein, Misc. Pisc.* iii. 12, f. 1, 2.
- Squalus rostro cuspidato, osseo, plano, utrinque dentato, *Gronov. Mus.* i. 132. *Zooph.* 33, 148.
- Schwertfisch, *Pontop.* 290, tab. ad pag. 285.
- Squalus pristis, *Linn. Gm.* 1499, 15. *Mus. Ad. Frid.* 52. *Forsk. Descr.* 10. *Müll. Prod.* 38, 319. *Duhamel*, pl. 25, f. 3—5. *Fabric. Faun. Grænl.* 130, 91. *Bloch, Schneid.* t. 120.
- Piscis serra, *Bonn. Mus. Kirch.* 155, t. 37, f. 21.
- La Scie, *Brouss.* 671, 20. *Encycl.* f. 24.
- Pez de Espada, *Parra.* 75.
- Pristis serra, *Bloch, Schneid.* t. 70.
- Pristis granulosa, *Bloch, Schneid.* 351.
- Pristis cauculata, *Bloch, Schneid.* 351.
- ? Squalus, No. 1, *Browne, Jam.* 458.
- Squalus rostro longo cuspidato osseo, plano utrinque dentato, *Arledi, Gen. Pisc.* 504.
- Squale Scie, *Lacép.* i. 286, pl. 8, f. 4.
- Scie commune, *Dict. Sci. Nat.* 27.
- Saw-fish, *Penn. Suppl.* 105.
- HAB.—Mediterranean, Ocean.
- a. Stuffed.
- b. Stuffed. Indian Seas. From Dr. A. Smith's collection.
- c. Rostrum. (53 in. length, 10½ in. breadth).
- d. Rostrum. India. Presented by T. E. J. Boileau, Esq.
- e, f. Rostrum.

g. Rostrum.

h, i. Rostrum. West Indies. From Mr. Scrivener's collection.

j. Rostrum. Tenasserim. Presented by J. D. C. Packman, Esq.

k—n. Rostrum.

o. Rostrum. Young.

2. PRISTIS PECTINATUS.

Pristis pectinatus, *Lath. Müll. & Henle, Plag.* 109. *Lath. l. c. t.*

2. *Risso, Hist. Nat.* iii: 141. *Cuv. Règ. An.* 2 ed. ii. 394.

Pristis pectinata, *Bloch, Schneid.* 351. *Blainv. Faun. Fr.* 51.

Owen, Odontl. t. 8, f. 1.

Squalus pectinatus, *Hamilton*, 5.

HAB.—Atlantic Ocean, South Sea.

a. Stuffed. Mexico. From Mr. Warwick's collection.

b. Stuffed. West Indies. From Mr. Scrivener's collection.

c. Stuffed. Cape. From Mr. Warwick's collection.

d. Rostrum (52 in. length, 5½ in. breadth). Presented by Miss Pepper.

e—g. Rostrum.

h. Rostrum, with part of the skull. Presented by Edwin Keele, Esq.

i—k. Rostrum. Young.

l. Stuffed.

m. Stuffed. Calcutta. Presented by E. Blyth, Esq.

n. Rostrum.

3. PRISTIS MICRODON.

Pristis microdon, *Lath. Müll. & Henle, Plag.* 107. *Lath. l. c. t.*

26, f. 4. *Bloch, Schneid.* 351. *Cuv. Règ. An.* 2 ed. ii. 394.

HAB.—India.

4. PRISTIS CUSPIDATUS.

Pristis cuspidatus, *Lath. Müll. & Henle, Plag.* 107. *Lath. l. c. t.*

26, f. 3. *Bloch, Schneid.* 351. *Cuv. Règ. An.* 2 ed. ii. 394.

? *Pristis*, *Valent. Amboina*, t. 52, f. Y.

HAB. ———?

a. Rostrum. Tenasserim. Presented by J. D. C. Packman, Esq.

5. PRISTIS SEMISAGITTATUS.

Pristis semisagittatus, *Shaw, Gen. Zool.* 361. *Müll. & Henle, Plag.* 108. *Cuv. Règ. An.* 2 ed. ii. 394. *Hardw. Icon. ined.* 60.

Yahla, *Russell, j. t.* 13.

HAB.—Coromandel.

a. Stuffed. India. Presented by T. E. J. Boileau, Esq.

b. Animal in a dry state.

c. Rostrum.

d. Rostrum. From Dr. Mantell's collection.

6. PRISTIS PEROTTETI.

Pristis Perotteti, *Valenc. MSS. in Müll. & Henle, Plag.* 108.

HAB.—Senegal.

Fam. 5. RAIDÆ.

Body much depressed, broad, abruptly ending in a slender tail.

Raja, Cuv. Règ. An. 2 ed. ii. 395.

Squatinatoriæ, part, *Müll. & Henle, Plag.*

Torpedines, Müll. & Henle, Plag.

Raidæ, Swains. Cab. Cycl. 319, 1837.

1. The fore part of the body forms, through the conjunction of the breast-fins with the snout, a disk. The breast-fins four-cornered separated from the head portion of the disk by a notch, not reaching the belly-fins. First back-fins above the belly-fins. Tail-fin two-lobed, with the upper lobe a little larger. The side keels are continued along the tail-fin. Mouth undulated. Three protuberances of the under-jaw correspond with an equal number of depressions in the upper-jaw. The teeth are longer on the summit of the undulations. Nostrils slit lengthways near the mouth, with a flap above and below. The upper one stands out in two parts, one outer, more slender, and longer rounded lobe, and one inner shorter and broader, which are separated from one another by a notch more or less deep.—RHINÆ.

Rhinæ, Müll. & Henle, Plag. 110.

Rhinobatis (§ a), *Müll. & Henle, Mag. Nat. Hist.* ii. 89, 1838.

Rhinobatinæ, part, *Swains. Cab. Cycl.* 317, 1837.

1. RHINA.

Snout rounded before. Spout-holes close behind the eyes. The upper and under nasal-flaps reach up to the inner corner of the nostril. The undulation of the mouth very bold. The teeth almost round, not broader than long.

Rhina, *Bloch, Schneid.* 72. *Cuv. Règ. An.* 2 ed. ii. 396. *Müll. & Henle, Mag. Nat. Hist.* ii. 89, 1828. *Plagiost.* 110. *Bonap. Selac. Tab. Anal. Swains. Cab. Cycl.* 319 (not *Rafin.*)

1. RHINA ANCYCLOSTOMUS. ♀

Rhina ancylostomus, *Bloch, Schneid.* 352, t. 72. *Cuv. Règ. An.* 2 ed. ii. 396. *Agassiz, t. H,* f. 3, 4. *Gray & Hard. Illust.* 102, f. 2. *Müll. & Henle, Plag.* 110. *Owen, Odontl.* t. 33 (teeth). *Rich. Rep. Brit. Assoc.* 195, 1845.

HAB.—Indian Ocean.

- a. Stuffed. Adult. Madras. Presented by T. C. Jerdon, Esq
- b. Stuffed. Young. China. Presented by J. R. Reeves, Esq.
- c. Teeth. Adult. Penang. Presented by Dr. Theodore Cantor.

2. RHYNCLOBATUS.

Snout elongated, pointed with a keel in the middle, which tapers gently forward. The space between the keel and the inner edge of the breast-fin is composed of skin. Spout-holes immediately behind the eyes. Upper eyelid with a simple projection. The upper and under nasal-flaps do not reach up to the inner corner of the nostril, but only up to half of them; on the outside of the same on the upper edge of the nostril a narrower ledge. The undulations of the mouth feeble, particularly the side ones. Teeth broader than long, with a transverse wreath. A transverse arched row of pores on the ventral side of the scapular chain.

Rhynchobatus, *Müll. & Henle, Mag. Nat. Hist.* ii. 89, 1838.
Plagiost. 111. *Bonap. Selac. Tab. Anal.*
 Rhinobatus (§ 1), *Cuv. Règ. An.* 2 ed. ii. 396.

1. RHYNCLOBATUS LÆVIS.

Rhynchobatus lævis, *Müll. & Henle, Plag.* 111.
 Rhinobatus, *Duham. sect. 9,* pl. 15.

- Rhinobatus Djeddensis, *Forsk. Descr.* 18. *Linn. Gm.* 1511.
 Rhinobate, *Lacép.* i. pl. 6.
 Raie bohkat, *Lacép.* i. 139.
 Rhinobate lævis, *Bloch, Schneid.* t. 71.
 Walawah Tenkee, *Russell*, 10.
 Rhinobate lisse, *Dict. Sci. Nat.* 19.
 Rhinobatus lævis, *Cuv. Règ. An.* 2 ed. ii. 396.
 Rhinobatus Djeddensis, *Rüpp. Alt.* 54, t. 13, f. 1: *Benn. Life of Raffles*, 693.
 Rhinobatus Duhamelii, *Blainv. Faun. Fr.* 148.
 a. Indian Seas?
 b. Stuffed. Red Sea. From Dr. Rüppell's collection.
 Rhinobatus Djeddensis, *Rüppell*.
 c. India. Young. Presented by T. E. J. Boileau, Esq.

2. The belly-fins begin immediately behind the attachment of the breast-fins; these pass imperceptibly into the snout. Both back-fins upon the hinder part of the tail of equal size. The belly-fins are four-cornered, longer than broad, rounded before, pointed behind. Tail-fin without an under lobe. The keels of the tail begin behind the belly-fins, and pass on converging to the under edge of the tail-fin. Mouth straight, transverse or gently arched forwards. Teeth pavement-like, flat, with a more or less sharp cross ledge. Spout-holes close behind the eyes. A row of pores beneath the scapular girdle.—RHINOBATINA.

- Rhinobatis (§ B), *Müll. & Henle, Mag. Nat. Hist.* ii. 89, 1838.
 Rhinobatides, *Müll. & Henle, Plag.*
 Rhinobatus (§ 2), *Cuv. Règ. An.* 2 ed. ii. 396.
 Rhinobatinæ, part, *Swains. Cab. Cycl.* 319, 1839.

3. RHINOBATUS.

The skull is prolonged forwards into a keel; the interspaces betwixt it and the inner borders of the breast-fins are cuticular. Snout more or less sharp. The upper nasal-flap consists, as in Rhinobatus, of an outer, more slender and longer, and an inner, broader and shorter lappet. The outer lappet is slender, but reaches with its rounded point up to the under margin of the nostril, and is not sharply divided from the inner lappet; the outer lappet is nearly in the middle of the upper edge of the nostril; the inner one extends more or less widely inwards. Spout-holes and eyes encompassed by a common wall of skin. The upper eyelid has a middle

adnate projection; the upper velum with its indented edge is curved inwards in the middle. The fore lateral edge of the disk is twice gently incurved.

Rhinobatus (§ 2), *Cuv. Rêg. An.* 2 ed. ii. 396. *Müll. & Henle, Mag. Nat. Hist.* ii. 89, 1838. *Plagiost.*

Rhinobates, *Swains. Cab. Cycl.* ii. 319, 1839.

Rhinobatus aut Raja squali, *Blainv. Bull. Soc. Phil.* 121, 1816. *Jour. de Phys.* 262, 1816.

* The upper nasal-flap reaches inwards over the inner border of the nostril without attaching itself in the middle.—SYRRHINA.

Rhinobatus (§ 1), *Syrrhina*, *Müll. & Henle, Plag.* 43. *Bonap. Selac. Tab. Anal.*

1. RHINOBATUS (SYRRHINA) COLUMNÆ.

Rhinobatus (*Syrrhina*) *Columnæ*, *Müll. & Henle, Plag.* 113.

Rhinobatus s. Squatino-Raja, *Columna, Phytobas.* t. 27. (*Copied in Willoughby, D.* 5, f. 1). *Ray*, 28, 12.

Raja rostrata, *Shaw, Nat. Misc.* 173. (not Banks).

Rhinobatus *Columnæ*, *Bonap. Selac. Tab. Anal.* 14, 1838.

HAB.—Mediterranean, Sicily.

a. Stuffed. Mediterranean?

2. RHINOBATUS (SYRRHINA) BREVIROSTRIS.

Rhinobatus (*Syrrhina*) *brevirostris*, *Müll. & Henle, Plag.* 114.

HAB.—Brazil.

3. RHINOBATUS (SYRRHINA) BLOCHII.

Rhinobatus (*Syrrhina*) *Blochii*, *Müll. & Henle, Plag.* 115.

HAB.—Cape.

a. In spirits. Cape of Good Hope.

4. RHINOBATUS (SYRRHINA) ANNULATUS.

Rhinobatus (*Syrrhina*) *annulatus*, *Smith, MSS. Illust. Afr. Zool. Pisc.* pl. xvi. 18, 1849. *Müll. & Henle, Plag.* 116, 1841.

HAB.—Cape.

a. Stuffed. Cape Seas. Presented by Dr. A. Smith.

5. RHINOBATUS (SYRRHINA) BOUGAINVILLII.

Rhinobatus (Syrrhina) Bougainvillii, *Valenc. MSS. Müll. & Henle, Plag. 117.*

HAB. ———?

6. RHINOBATUS (SYRRHINA) BANKSII.

Rhinobatus (Syrrhina) Banksii, *Müll. & Henle, Plag. 123.*

Raja rostrata, *Banks, MS. Brit. Mus. 45.*

HAB.—New Holland.

** The upper nasal-flap does not reach to the inner angle of the nostril.—RHINOBATUS.

Rhinobatus, *Müll. & Henle, Plag. 117.*

7. RHINOBATUS GRANULATUS.

Rhinobatus Rhinobatus, *Bloch, Schneid. 353.*

Rhinobatus granulatus, *Cuv. Règ. An. 2 ed. 396. Müll. & Henle, Plag. 117.*

HAB.—Indian Ocean.

a. Stuffed. Adult.

b, c. Stuffed. Young. Mediterranean? From Mr. Argent's collection.

d. Stuffed. India. Presented by T. E. J. Boileau, Esq.

8. RHINOBATUS HALAVI.

Raja Halavi, *Forsk. 19, n. 18.*

Rhinobatus Halavi, *Rüpp. Atl. 55, t. 14, f. 2. Müll. & Henle, Plag. 120.*

Rhinobatus Thouini, var.? *Cuv. Règ. An. 2 ed. ii. 396.*

HAB.—Indian Ocean.

a. Stuffed. China.

b. Stuffed. Red Sea. From Dr. Rüppell's collection.

c. Stuffed.

d. In spirits. India. Presented by Gen. Hardwicke.

9. RHINOBATUS CEMICULUS.

Raja Rhinobatus, *Shaw, Gen. Zool.* 317.

Rhinobatus cemiculus, *Geoffroy, St. Hill. Descr. Eg.* 339, pl. 27, f.

3. *Müll. & Henle, Plag.* 118.

HAB.—Mediterranean.

10. RHINOBATUS PHILIPPI.

Rhinobatus Philippi, *Müll. & Henle, Plag.* 119.

HAB.—Ocean.

11. RHINOBATUS ARMATUS.

Rhinobatus armatus, *Gray & Hardw. Illustr.* 99. *Müll. & Henle, Plag.* 119.

Rhinobatus typus, *Benn. Life of Raffles*, 694.

HAB.—India.

12. RHINOBATUS THOUINI.

Rhinobatus Thouini, *Müll. & Henle, Plag.* 120.

Raje Thouin, *Lacép. i. t. 1, f. 3—5*, (*Copied in Shaw, Gen. Zool.* 318, t. 147).

HAB. ——— ?

13. RHINOBATUS UNDULATUS.

Puraque, *Marcgr.* 151. (*Copied in Willoughby, t. D, 5, f. 2*).
Ruysch, Thes. t. 36, f. 9.

Puraque, *Lib. Princ. Braz. Naturg.* i. 394.

Rhinobatus electricus, *Bloch, Schneid.* 350.

Torpedo americana, *Ray, Syn.* 29, 2.

Rhinobatus glaucostictus, *Olfers, Torp.* 22.

Rhinobatus undulatus, *Olfers, Torp.* 22. *Müll. & Henle, Plag.* 121.

Rhinobatus Marcgravii, *Henle, Narc.* 34.

HAB.—Rio Janiero, Bahia.

14. RHINOBATUS OBTUSUS.

Rhinobatus obtusus, Müll. & Henle, *Plag.* 122.

HAB.—India.

a. Stuffed. Cape Seas. From Dr. A. Smith's collection.

15. RHINOBATUS HORKELI.

Rhinobatus Horkeli, Müll. & Henle, *Plag.* 122.

HAB.—Brazil.

16. RHINOBATUS SCHLEGELII.

Rhinobatus Schlegelii, Müll. & Henle, *Plag.* 123. *Rich. Rep. Brit. Assoc.* 195, 1845.

HAB.—Japan.

a. Stuffed. Japan. From Mr. Frank's collection.

17. RHINOBATUS HYNNICEPHALUS.

Rhinobatus hynnicephalus, *Rich. Rep. Brit. Assoc.* 195, 1845. *Hard. Cart.* 63.

HAB.—China Seas.

Doubtful Rhinobati.

1. *Squatoraja*, *Belon.* 78.
2. *Squatoraja* s. *Rhinobatus*, *Aldrov.* 477, 478. (*Copied in Johnston, Hist. Nat.* t. xii. f. 6.
3. *Raja dorso dipterygeo*, *Gronov. Zooph.* 36, p. 136.
4. *Rayon*, *Cornide*, 126.
5. *Sutti vara*, *Russell, Ind.* t. 11. (See *Cuv. Règ. An.* 2 ed. ii. 396.

2. TRYGNORHINA.

Form of the body, snout, teeth, velum, and all other proportions of *Rhinobatus*. Only the nasal-flaps are different. The two upper nasal-flaps pass over into one another through a common, straight under border; the simple flap hangs down upon the mouth as in

Trygon, and leaves only the outer angle of the nostril as a round, free opening. The adnate upper eyelid has a crescentic edge. The fore edge of the disk is once incurved.

Trygonorhina, Müll. & Henle, *Mag. Nat. Hist.* ii. 90, 1838. *Plagiost.* 124.

1. TRIGONORHINA FASCIATA.

Raja fasciata, Banks, *MS. Icon. ined.* 47.

Trigonorhina fasciata, Müll. & Henle, *Plag.* 124.

HAB.—Australasian Seas.

a. Stuffed. S. Australia. Presented by the Earl of Derby.

b. Stuffed. From Mr. Argent's collection.

3. PLATYRHINA.

The breast-fins approach each other on the point of the snout. The fore end of the skull is grasped by the points of the breast-fins. The tail is thinner than in the other Rhinobatides. All the fins are rounded. The upper nasal-flap is a three-cornered lappet, and stretches inwards above the inner angle of the nostril. The fore edge of the disk is not incurved. The upper eyelid as in Rhinobatus. No roll at the spout-holes.

Platyrrhina, Müll. & Henle, *Mag. Nat. Hist.* ii. 90, 1838. *Plagiost.* 125.

Torpedo, sp., *Cuv. Règ. An.* 2 ed. ii. 396, 397.

1. PLATYRHINA SINENSIS.

Raie chinoise, Lacép. i. 2, t. 2. *Hardw. Icon. ined.* 74.

Platyrrhina sinensis, Müll. & Henle, *Plag.* 125. *Rich. Rep. Brit. Assoc.* pl. 96, 1845.

Rhina anglostoma, part, Bloch, *Schneid.* 72.

Torpedo, sp., *Cuv. Règ. An.* 2 ed. ii. 396, 399.

HAB.—Japan, China.

a. Stuffed. "Brazil."?

2. PLATYRHINA SCHÆNLENII.

Platyrrhina Schænlenii, Müll. & Henle, *Plag.* 125.

HAB.—India.

2. The back is rounded, naked, without scales or prickles. The belly-fins stand directly behind the pectorals. The tail short, fleshy, depressed at the base, cylindrical at the end; with two, one, or no back-fin, and a terminal three-cornered tail-fin. A more or less long cuticular keel of skin on each side of the tail. The upper eyelid adnate without a projection. The nasal flaps on both sides are attached to a four-sided lobe with a free edge, which leaves only the outer angle of the nostril ungirt, and is connected by a band to the upper lip. Teeth pointed or flat. An electrical apparatus of upright little pillars, whose flat ends shine through the skin of the back and belly between the head, gills and inner edge of the breast fins.—TORPEDININA.

Torpedines, Müll. & Henle, *Mag. Nat. Hist.* 1838, 90. *Plagiost.* 126.

Torpedo, *Cuv. Règ. An.* 2 ed. ii. 396.

Torpedinæ, *Swains. Cab. Cycl.* ii. 319, 1834.

† *Two back-fins.*

1. TORPEDO.

Disk rounded, truncated before, straight or somewhat incurved. Mouth crescentic, the teeth are pointed, attached to a jaw cartilage and not extending outwards beyond the margin of the mouth. Their base is longest transversely. The bridle of the nasal-flap springs from the middle of the edge of the upper lip. The eyes are remote from the spout-holes. A cornice of cuticular teeth on the brink of the spout-hole. The belly-fins rounded. Two back-fins, the first larger than the second; and the first above the hinder part of the belly-fins, the second in the middle between the first and tail-fin. Tail-fin three-cornered, with a straight hinder edge.

Torpedo, *Dum. Zool. Anal.* 1806. *Cuv. Règ. An.* 2 ed. ii. 396.

Müll. & Henle, Mag. Nat. Hist. 1838, 90. *Plagiost.* 126.

Swains. Cab. Cycl. ii. 319.

Narcobatus aut *Raja torpedinus*, *Blainv. Bull. Soc. Phil.* 1816, 121.

1. TORPEDO OCLATA.

Torpedo oculata, *Belon.* 93. *Müll. & Henle, Plag.* 127.

Torpedo, *Rondelet.* 358, 362, a. (Copied in *Ruysch, Thes.* i. t. 9, f. 3. *Kolbe, Cap de Bonne Esp.* t. 8, f. 6, 7. *Gesner,*

- 989, 990. *Jonston*, 9, f. 3, 4). *Salviani*, t. 48. (Copied in *Ruysch*, *Thes.* i. t. 9, f. 4.—*Aldrov.* 417. *Kolbe*, t. 8, f. 6. *Willoughby*, t. D. 4. *Jonston*, t. 9, f. 4). *Matthioli*, *Comment.* 189. *Besler*, *Fascic.* t. 6. *Mus.* t. 16. *Ray*, 28, 1.
- Torpedine, *Lorenzini Osserv.* t. 1, f. 1
- Tremielga, *Cornide*, *Ens.* 123.
- Raja Torpedo, *Bloch*, 122. (Copied in *Buffon*, *Hist. Poiss.* 9, p. 42). *Blum*, *Nat. Geg. Heft.* 6, t. 57.
- Torpedo ocellata, *Raf. Ind.* 60. *App. gen.* 20, spec. 29. *Rudolphi*, *Phys.* i. 199. *V. Olfers*, *Torp.* 9, t. 1, f. 3. *Henle*, *Narc.* 30.
- Torpedo maculata, *Raf. Ind.* n. 381.
- Torpedo variegata, *Raf. Ind.* n. 382.
- Raie Torpille, *Geoff. Ann. du Mus.* i. 392, t. 26, f. 1.
- Torpedo narke, *Risso*, *Ichth.* 18. *Hist. Nat.* iii. 142. *Cuv. Règ. An.* 2 éd. ii. 396. *Bonap. Faun. Ital.* fasc. 14, f. 1, 2.
- Torpedo unimaculata, *Risso*, *Ichth.* 19, t. 3, f. 3. *Hist. Nat.* t. 3, 143, f. 8.
- Torpille à une tâche, *Dict. Sci. Nat.* t. 21. (Copied from *Risso T. unimaculata*).
- Torpedo oculata, *Davy*, *Researches*, i. 78.
- HAB.—Mediterranean.
- a. Stuffed.
- b. Stuffed.
- c. In spirits. Dalmatia. From Dr. Heckle's collection.
- d. In spirits. Mediterranean. From Mr. Frank's collection.

2. TORPEDO NOBILIANA.

- Torpedo nobiliana, *Bonap.* fasc. 12, 1835. *Müll. & Henle*, *Plag.* 128. *Yarr. Brit. Fish.* 2 ed. ii. 546, 1841.
- Torpedo walshii, *Thomp. Ann. Nat. Hist.* v. 292. *Faun. Ireland*, *Vert.*
- Torpedo emarginata, *M'Coy*, *Ann. Nat. Hist.* vi. 407?
- HAB.—Mediterranean.

3. TORPEDO MARMORATA.

- Narce, Torpedo, *Bélon.* 90, 91. (Copied in *Gesner*, 988). *Rondelet.* 362, 363. (Copied in *Ruysch*, *Thes.* i. t. 9, f. 3, 5. *Gesner*, 991. *Jonston*, 9, f. 3, 5). *Gesner*, 992. *Aldrov.* 418. *Walsh*, *Phil. Trans.* 1772, lxiii. 480, f. 1—3. (Copied in *Langguth*, *Opusc.* t. iii.)

- Torpille, *Réaum. Mem. de l'Acad.* 344. *Duhamel*, sect. 9, 13.
 Raja Torpedo, *Brunnich*, i. n. 1.
 Raja maculata et bicolor, *Shaw, Gen. Zool.* vii. 16.
 Torpedo immaculata, *Raf. Ind.* 60, 30.
 Torpedo punctata, *Raf. Ind.* 61, 31.
 Torpedo marmorata, *Risso, Ichth.* 20, 3, t. 3, f. 4. *Hist. Nat.* 143, 28, f. 9. (Copied in *Dict. Sci. Nat.* t. 21, f. 2). *Müll. & Henle, Plag.* 128. *Rudolph. Phys.* i. 199. *Olfers, Torp.* 14. *Henle, Narc.* 30.
 Torpedo Galvanii, *Risso, Ichth.* 21, n. 23, t. 3, f. 5. *Hist. Nat.* 144, 29. *Bonap. Faun. Ital.* fasc. 3—5.
 ? Torpedo sinus persici, *Kaempfer. Amœn. Exot.* 509.
 ? Temeree et Nallah Temeree, *Russell*, i. 2, t. 2.

HAB.—Mediterranean.

- a. In spirits. (Bleached).
 b. Stuffed. From Mr. Leadbeater's collection.
 c. Stuffed. Mediterranean. From Mr. Argent's collection.
 d. Stuffed.
 e. Stuffed.
 f. In spirits.

4. TORPEDO PANTHERA.

- Torpedo panthera, *Ehrenb. Müll. & Henle, Plag.* 193. *Ehrenb. in Olfers, Torp.* 15, 16. *Rüpp. Chondropt.* 8, t. 19, f. 1.

HAB.—Red Sea. •

2. NARCINE.

Disk roundish, elliptical or angular, rounded before, provided with a broad keel. Mouth small, protruding forwards, surrounded by a circular fold of skin, which passes above into the bridle of the nasal flap. Nasal flat straight, with a middle projection, sometimes lengthened a little sideways, so as to become three-tipped. A labial cartilage above and below. Teeth in quincuncial order, with a middle point; and arranged on the border of the jaw so as to form outwards an elliptical plate. The skin which supports them is not adnate to the jaw, but is capable of sliding upon it. A velum behind the upper jaw. Tail longer than the disk. The first back-fin behind the belly-fin, smaller than the second. Spout-holes close behind the eyes. Margin of the spout-holes without teeth.

Narcine, *Henle, Narc. Müll. & Henle, Mag. Nat. Hist.* 1838, 90. *Plagiost.* 129.

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1. NARCINE BRASILIENSIS.

Raja dorso dipterygio, cauda brevi, apice pinnato, *Gronov. Zooph.* fasc. i. 35, 153, t. 9, f. 3.

Torpedo ocellata, *Quoy & Gaim. Freyc.* 199.

Torpedo brasiliensis, *Olfers, Torp.* 19.

Narcine brasiliensis, *Henle, Narc.* 31, t. 1. *Müll. & Henle, Plag.* 129.

Torpedo Bancroftii, *Griff. An. Kingd.* pl. 34.

HAB.—Brazil (Rio de Janeiro), Cape.

a. Stuffed.

b. Stuffed. West Indies. From Mr. Scrivener's collection.

c. In spirits. Young. Parà. From Mr. Bates' collection.

2. NARCINE INDICA.

Narcine indica, *Henle, Narc.* 35, t. 2, f. 2. *Müll. & Henle, Plag.* 130.

HAB.—Tranquebar.

3. NARCINE LINGULA.

Narcine lingula, *Rich. Rep. Brit. Assoc.* 196, 1845. *Reeves, Icon. ined.* 227. *Hardw. Icon. ined. Cart.* 72.

HAB.—China Seas. Madras.

4. NARCINE TIMLEI.

Torpedo Timlei, *Bloch, Schneid.* 359. *Cuv. Règ. An.* 2 ed. ii. 397.

Narcine Timlei, *Henle, Narc.* 34, t. 2, f. 1. *Müll. & Henle, Plag.* 130. *Rich. Rep. Brit. Assoc.* 196, 1845.

HAB.—China Seas.

a, b. In spirits. China Seas. Presented by Sir J. Richardson, M.D.

5. NARCINE TASMANIENSIS.

Narcine Tasmaniensis, *Rich. Proc. Zool. Soc. March,* 1840. *Ann. Mag. Nat. Hist.* 310, 1840.

HAB.—Australian Seas.

a. In Spirits. Tasmania. Presented by Sir J. Richardson, M.D.

†† *One back-fin.*

3. ASTRAPE.

Snout short, without a keel. Mouth in many respects as in *Narcine*. The bridle of the nasal-flap provided with a cylindrical cartilage. The teeth pointed on a four-cornered base, pass the edge of the jaw, but a little outwards. Velum on the upper and lower jaw. The single back-fin and the tail-fin rounded. Eyes and spout-holes approximated to each other. Spout-holes smooth.

Astrape, Müll. & Henle, *Mag. Nat. Hist.* 1838, 90. *Plagiost.* 130.
Narcine, sp. *Henle, Narc.* 36.

1. ASTRAPE CAPENSIS.

Raja dorso monopterygio, *Gronov. Zooph. fasc. i.* 35, n. 152.

Raja capensis, *Lin. Gm.* 1512. *Bloch, Schneid.* 360.

Torpedo capensis, *Olfers, Torp.* 23.

Narcine capensis, *Henle, Narc.* 36, t. 3, f. 1.

Astrape capensis, *Müll. & Henle, Plag.* 130.

HAB.—Cape.

2. ASTRAPE DIPTERYGIA.

Raja dipterygia, *Bloch, Schneid.* 359.

Torpedo dipterygia, *Olf. Torp.* 25.

Narcine dipterygia, *Henle*, 38, t. 3, f. 2.

Astrape dipterygia, *Müll. & Henle, Plag.* 131.

HAB.—Tranquebar.

††† *No back-fin.*

4. TEMERA.

Nose, mouth, velum as in *Astrape*. Tail without a back-fin, in proportion to the disk short. Spout-holes close behind the eyes, without teeth; flat teeth.

Temera, *Gray, Zool. Misc.* 7. *Illustr. Ind. Zool. t.* Müll. & Henle, *Mag. Nat. Hist.* 1838, 90. *Plagiost.* 131. *Swains. Cab. Cycl.* ii. 319.

1. TEMERA HARDWICKII.

Temera Hardwickii, Gray, *Zool. Misc.* 7. *Gray & Hardw. Illustr.* 102, f. 1. *Müll. & Henle, Plag.* 131.

HAB.—Penang.

a. In spirits. Penang. Presented by Gen. Hardwicke.

4. The breast-fins cohere jointly to the snout, and their attachments reach to the belly-fins. The disk is broad and rhomboidal. The tail is thinner in proportion to the body than the foregoing, the two back-fins are removed quite towards the point; the terminal-fin exists merely as a ledge at the end of the tail, or is entirely wanting. The tail is depressed, and has a keel of skin on each side throughout its whole length. The upper eyelid adnate. Eyes and spout-holes separated only by a slender bridge. Spout-holes with smooth edges. The four-sided lappet formed out of the pouting nasal-flap is adnate by its whole under edge to the dental margin of the upper jaw; only a small part of the under edge remains free on each side, which passes into the lateral margin by a rounded angle, and is more or less deeply fringed. On the outer termination of the nostril a small cuticular ledge. Mouth arched forwards, without labial cartilages, teeth pointed or pavement-like, flat, in the males pointed in spawning time. Velum in the upper jaw only, notched in the middle, with a fringed edge. The skin is either smooth, or clothed with small, curved prickles, more or less crowded, and directed backwards; among which there arise also bigger spines; the larger spines are most abundant on the ridge of the back and tail, then upon the ridge of the eyes, the keel of the snout, and upon the fore-edge of the breast-fin before the outer corner. In the males, in the spawning season, two sharp spines develop themselves on the fore-edge of the breast-fins. They are the only spawning Rays.—RAIÆ.

Raja, *Cuv. Rég. An.* 2 ed. ii. 397.

Raiæ, *Müll. & Henle, Mag. Nat. Hist.* 1838, 90. *Plagiost.* 132.

Raidæ, *Trigoninæ* part, *Swains. Cab. Cycl.* ii. 319.

1. RAJA.

The snout is prolonged into a keel, the inner edges of the breast-fins are parallel to the keel. The interspace between the keel and the inner edges of the breast-fins is cuticular. The belly-fins divide

into an inner and outer lobe by a deep notch on the hinder edge. The outer lobe is thicker than the inner one, but more slender. The tail has a low terminal fin, more conspicuous on the upper side than on the under one; it is for the most part interrupted at the point.

Raja, *Linn. Müll. & Henle. Mag. Nat. Hist.* 1838, 90. *Plagiost.* 138. *Swains. Cab. Cycl.* ii. 319.

Dasybatus, part, *Klein.*

Dasybatus, *Blainv. Bull. Soc. Phil.* 1816, 121.

Dipturus (batis) *Rafin. Caratt.* 1810.

Læviraga, *Belon. Nardo.*

Propleygia, *Otto.* Is founded on a monstrosity rather frequent among the Rays.

* *Snout blunt. The keel does not project on the fore edge of the disk.*

1. RAJA RADULA. Sandy Ray.

Raja radula, *De la Roche, Ann. du Mus.* xiii. 321. *Müll. & Henle, Plag.* 133. *Risso, Hist. Nat.* iii. 151. *Cuv. Règ. An.* 2 ed. ii. 398. *Bonap. fasc.* 13.

Raja virgata, *Geoff. St. Hil. Descr. Eg.* 337, 26, f. 2, 3.

Raja spinosa, *Rond.* 355.

Raja falsavela, *Bonap. fasc.* 26.

Raie ratissoire, *Blainv. Faun. Fr.* 25.

Sandy Ray, *Couch, Mag. Nat. Hist.* ii. 71. *Yarr.* ii. 574, 1841.

Raja circularis, *Couch, Mag. Nat. Hist.* xi. 71. *Corn. Faun.* 63.

HAB.—Mediterranean, English Channel.

a. Stuffed. Plymouth. Lieut. H. F. Spence, R.N.

2. RAJA ATRA.

Raja atra, *Müll. & Henle, Plag.* 134.

HAB.—Sicily.

3. RAJA UNDULATA.

Raja undulata, 'Rond. 346? *Lacep.* iv. pl. 14, f. 2. (Copied in *Shaw, Gen. Zool.* 280, t. 140). *Müll. & Henle, Plag.* 134. *Cuv. Règ. An.* 2 ed. ii. 398.

Dasybatus, No. 11, *Klein, Misc. Pisc.* iii. 36.

Dasybatus, No. 12, *Klein, Misc. Pisc.* iii. 37.

- Raja picta*, Lacep. iv. 675, pl. 16, f. 2. (Copied in Shaw, 279, t. 140).
Raja alba, Lacep. v. 636, pl. 20, f. 1. (Copied in Shaw, 280, t. 139).
Raja mosaica, Risso, *Hist. Nat.* iii. 154. *Blainv. Faun. Fr.* 32, pl. 4, f. 2.
Raja fenestrata, Rafin. *Caratt.* 15, 36.
Raja maderensis, Lowe, *Trans. Zool. Soc. Lond.* ii. 1839, 195.
 HAB.—Mediterranean.

** Snout pointed, more or less elongated.

4. *RAJA CLAVATA*. Thornback.

- Raja*, *Belon.* 80.
Raja clavata, *Rond.* 353, 354. (Copied in *Ruysch, Thes.* t. ii. f. 3). *Aldrov.* 461. *Müll. & Henle, Plag.* 135. *Gesner*, 943. *Aldrov.* 459. (Copied in *Ruysch, Thes.* t. ii. f. 2). *Mehr. Act. Phys. Med. Nat. Cur.* vi. 483. *Linn. Faun. Suec.* 304. *Mus. Ad. Frid.* 52. *Bloch*, 83. (Copied in *Encycl.* pl. iii. f. 9). *Bloch, Schneid.* 366. *Shaw, Gen. Zool.* 272, t. 139. *Don.* 26. *Risso, Ichth.* 11. *Hist. Nat.* iii. 146. *Flem.* 170. *Cuv. Règ. An.* 2 ed. ii. 398. *Jenyns*, 516. *Fries, Arter. af Raja*, 15, t. 2, f. i. t. 3, f. 1, 2, 3, 7. *Blainv. Faun. Fr.* 33, pl. 5, c. f. 2.
Raja lævis s. barattula, *Aldrov.* 450, 451.
Dasybatus, Nos. 6, 7, *Klein, Misc. Pisc.* iii. 36.
 Thornback, *Penn.* 93, t. 11, 12. *Yarr.* 2 ed. ii. 582, 1841.
 Raie grise à peau rude, *Duham.* ii. §. 9, pl. 8, f. 1—4, pl. 9, f. 1—2.
Raja rubus, *Linn. Gmel.* 1507. *Bloch*, 84. (Copied in *Encycl.* pl. v. f. 11). *Blainv. Faun. Fr.* 21.
 La raie bouclée, *Lacep.* t. 1, 128.
Raja aculeata, *Artedi, Ichth.* v. 103, pl. iii. 525.
Raja punctata, *Hollb. Götheb. Nat. Handb.* iv. 28.
Squatinatoraja clavata, *Nardo*, n. 10.
Raja aspera, *Risso, Ichth.* 5. *Hist. Nat.* iii. 147. *Cuv. Règ. An.* 2 ed. ii. 398.
Raja spinosa, *Rafin. Ind.* 47.
 ? *Raja rubus*, *Nils.* 118.
Raja pontica, *Rathke, Krym.* t. iii. 10.
 HAB.—European Seas.
 a—e. Males. Stuffed. Frith of Forth. From Dr. Parnell's collection.

- f. Young female. Stuffed.
 g. Female. Stuffed. English Coast.
 h. Female. Stuffed.
 i, j. Young. Stuffed. Plymouth. Presented by Lieut. H. F. Spence, R.N.
 k—n. Young. Stuffed. English Coast.
 o. Jaws. From Dr. Mantell's collection.
 p. Jaws. Female.
 q. Jaws. Adult female.
 r. Stuffed. Dalmatia. From Dr. Heckle's collection.

5. RAJA RADIATA. Starry Ray.

- Raja eglantiera, *Lesueur, Phil. Ac.* iv. 4.
 Raja clavata, *Hollb. Götheb. Nat. Handb.* iv. 29. *Nils. Prodr.* 118.
 Raja fullonica, *Fabr. F. Grænl.* 125.
 Raja radiata, *Donov.* t. 114. *Flem. Brit. An.* 170. *Jenyns, Brit. An.* 517. *Fries, Arter. af Rajar,* 21, t. 3, f. 4. *Parn. Trans. Edin. Roy. Soc.* 1839, 145. *Parn. Ichth. Firth of Forth,* 279, 1838. *Müll. & Henle, Plag.* 137.
 Starry Ray, *Yarr. Brit. Fish.* 2 ed. ii. 439, 585, 1841.
 HAB.—European Seas.
 a—d. Stuffed. Firth of Forth. From Dr. Parnell's collection.

6. RAJA NÆVUS.

- Raja nævus, *Müll. & Henle, Plag.* 138.
 Raja falsavela, *Bonap. Faun. Ital.* fasc. 26.
 HAB.—European Coasts of the Atlantic and Mediterranean, rarely.

7. RAJA SCHULTZII.

- Raja Schultzii, *Müll. & Henle, Plag.* 138.
 Raja asterias aut stellata, *Belon.*
 Raja asterias aspera, *Rond.* 352. (*Copied in Ruysch, Thes.* 1, t. 10, f. 7). *Kolbe,* viii. f. 5, n. 1. *Aldrov.* 458.
 Dasybatus, No. 5, *Klein, Misc. Pisc.* iii. 36.
 ? Raja crabuda, *Cornide, Ens.* 126.
 Raja asterias, *Risso, Hist. Nat.* iii. 153.
 HAB.—Mediterranean.

8, RAJA ASTERIAS.

Læviraja, *Belon.* 82.

Raja oxyrhynchus, *Rond.* 347. (Copied in *Ruysch, Thes.* t. 10, f. 9).

Raja asterias, *Rond.* 350. (Copied in *Aldrov.* 457). *Müll. & Henle, Plag.* 139. *De la Roche, Ann. du Mus.* 13, t. 20, f. 1. *Cuv. Rég. An.* 2 ed. ii. 398. *Blainv. Faun. Fr.* 25.

Raja oxyrhynchus minor, *Aldrov.* 456.

Dasybatus, No. 4, *Klein, Misc. Pisc.* iii. 35, t. 4.

Dasybatus, No. 13, *Klein, Misc. Pisc.* iii. 37.

? Raja maculata, *Donov. A. A. O. Mont. Wern. Mem.* ii. 426. *Cuv. Rég. An.* 2 ed. ii. 398. *Blainv. Faun. Fr.* 15.

Raja punctata, *Risso, Ichth.* 12. *Hist. Nat.* iii. 153.

Raja fullonica, *Risso, Hist. Nat.* 352.

Læviraja mucosissima, *Nardo, A. A. O.*

Raja speculum, *Blainv. Faun. Fr.* 29, pl. iv. f. 1.

HAB.—French, English and Italian Coasts. Very common.

a. In spirits. Mauritius.

b. In spirits. Moluccas. From Mr. Frank's collection.

9. RAJA MARGINATA. Bordered Ray.

Raja marginata, *Lacép.* v. 663, t. 20, f. 2. (Copied from *Shaw, Gen. Zool.* 281, t. 139). *Müll. & Henle, Plag.* 140. *Flem. Brit. An.* 172. *Jenyns, Brit. An.* 512, sp. 201. *Bonap. Faun. Fr.* fasc. vi. 19, t. 3, f. 2.

Raja rostellata, *Risso, Hist. Nat.* iii. 148.

Raja bicolor, *Risso, Hist. Nat.* iii. 155.

The bordered Ray, *Yarr. Brit. Fish.* 2 ed. ii. 564, 1841.

Raie bordée, *Dict. Sci. Nat.* t. 20.

HAB.—Mediterranean, North Sea.

a. In spirits. Lyme Regis. Presented by Lord Cole.

10. RAJA MIRALETUS. Homelyn Ray.

Læviraja miraletus, *Belon.* 82. *Nardo, A. A. O.*

Raja oculata et lævis, *Rond.* 349. (Copied in *Ruysch, Thes.* i. t. 10, f. 4). *Aldrov.* 453.

Raja oculata aspera, *Rond.* 349. (Copied in *Aldrov.* 458). *Shaw, Gen. Zool.* 278, t. 139. *Merrett, Pin. Rer. Nat. Brit.* 185.

- Raja oculata lævis*, *Ray*, 27, n. 9.
Dasybatus, No. 2, 3, *Klein, Misc. Pisc.* iii. 35.
Raja miraletus, *Brun. Ichth.* 3, n. 3. *Linn. Gmel.* n. 4, 1507.
Müll. & Henle, Plag. 141. *Lacép.* i. 75. *Risso, Ichth.* 4.
Hist. Nat. iii. 149. *Donov.* 103. *Bonap. fasc.* iii. *Blainv.*
Faun. Fr. 27, pl. 5, f. 1.
Raja dorso ventreque glabris, aculeis ad oculos, ternoque eorum or-
dine in cauda, *Artedi, Gen. Pisc.* 529, n. 7.
Raja rubus, *Donov.* 20.
Raja biocularis, *Geoff. St. Hil. Desc. Eg.* pl. 27, f. 2.
Raja quadrimaculata, *Risso, Hist. Nat.* iii. 150. *Bonap. fasc.* iii.
Raja oculata, *Flem. Brit. An.* 172.
Raja maculata, *Jenyns, Brit. An.* 203.
Homelyn Ray, *Yarr. Brit. Fish.* 2 ed. ii. 429, 570, 1841.

HAB.—European Seas.

a. Stuffed. Firth of Forth, Scotland. From Dr. Parnell's collec-
tion.

b. Stuffed. British Channel.

c—h. Stuffed. Young. British Channel.

11. RAJA MICROCELLATA.

- Raja microcellata*, *Mont. Wern. Mem.* 430. *Jenyns, Brit. An.* 515,
sp. 204. *Flem. Brit. An.* 171, sp. 23. *Müll. & Henle, Plag.*
142.

Small-eyed Ray, *Yarr. Brit. Fish.* 2 ed. ii. 567, 1841.

HAB.—The English Coast.

12. RAJA SALVIANI.

- Raja Salviani*, *Müll. & Hente, Plag.* 143.

? *Raja lævis*, *Rond.* 344.

Læviraja, *Salv.* 149, t. 52. (Copied in *Ruysch, Thes.* t. 11, f. 6).

Leibatus, No. 7, *Klein, Misc. Pisc.* 37.

Raja oxyrhynchus, *Brunnich*, 2, n. 2. *Shaw*, t. 138. *Blainv.*
Faun. Fr. 18, t. 3, f. 1.

? *Leviraja*, *Cornide, Ens.* 125.

Raja rostrata, *Blainv. Faun. Fr.* 30, t. 5, a, f. 2.

Læviraja oxyrhynchus et Læviraja macrorhynchus, *Bonap. Faun.*
Ital. fasc. 25.

Raja mucronata, *Yarr. Brit. Fish.* 2 ed. ii. 550, 1841.

Raja lævis, *De Kay, Nat. Hist. of New York*, 370, pt. 1. *Zool.*
1842.

HAB.—Mediterranean and Atlantic Ocean.

13. RAJA VOMER.

- ? *Raja macrorhynchus*, *Rafin. Caratt.* 15, 38.
Raja vomer, *Fries*, 36. *Müll. & Henle, Plag.* 144.
 HAB.—Mediterranean and North European Seas.

14. RAJA FULLONICA. Chagreen Ray.

- Raja aspera nostras*, *Willoughby*, 78. *Ray, Syn.* 26, n. 5.
 Chagreen Ray, *Penn.* iii. 87, n. 34. *Shaw*, 281.
Raja toto dorso aculeata, *Artedi, Gen. Pisc.* 72, n. 6. *Syn.* 101, n. 6.
Raja fullonica, *Ascan.* t. 43. *Müll. & Henle, Plag.* 145. *Bloch, Schneid.* 367. *Risso, Ichth.* 6*. *Fries*, 26, t. 2, f. 2.
 ? La Raie chardon, *Lacép.* i. 78, t. 1.
 La Raie chagrinée, *Lacép.* i. 81, t. 1.
Raja granulosa, *Bloch, Schneid.* 368.
Raja chagrina, *Mont. Wern. Mem.* ii. 420, pl. 2.
Raja flossada, *Risso, Hist. Nat.* iii. 145.
Raja aspera, *Flem. Brit. An.* 172, 25.
Raja chagrinea, *Jenyns, Brit. An.* 513. *Parn. Proc. Edin. Roy. Soc.* 1839, 144.
Raja fullonica, *Yarr. Brit. Fish.* 2 ed. ii. 578, 1841.
 HAB.—Mediterranean, North, and Scandinavian Seas.

15. RAJA BATIS. The Skate.

- Raja varia*, dorso med. glabro, unico aculeorum ordine in cauda, *Artedi, Gen. Pisc.* 73, n. 9. *Syn.* 102, n. 2.
Raja batis, *Holb. Götheb. Nat. Handb.* iii. 21. *Nils. Syn. Ichth. Scand.* 120. *Risso, Ichth.* 3. *Mont. Wern. Mem.* ii. pt. 2, p. 423. *Müll. & Henle, Plag.* 146. *Jenyns, Brit. An.* 510, p. 199. *Parn. Ichth. Firth of Forth*, 264, 1838. *Yarr. Brit. Fish.* 2 ed. ii. 561, 1841.
 Blue Skate and Gray Skate, *Yarr. Brit. Fish.* 2 ed. ii. 421.
 ? *Raja batis*, *Blainv. Faun. Fr.* 13, 14.
Dipturus batis, *Rafin. Caratt.*
 HAB.—North Seas, British Seas.
 a, b. Firth of Forth, Scotland. From Dr. Parnell's collection.
 c—e. Young. Firth of Forth, Scotland. From Dr. Parnell's collection.
 f—h. English Coast.

16. RAJA INTERMEDIA. Flapper Skate.

Raja intermedia, *Parn. Proc. Edin. Roy. Soc.* 166, 1837. *Trans. Roy. Soc. Edin.* xiv. 429, pl. 6, 1839. *Mem. Wern. Nat. Hist. Soc.* vii. 429, pl. 40. *Ichth. Firth of Forth*, 269, 1838. *Yarr. Brit. Fish.* 2 ed. ii. 558, 1841. *Müll. & Henle, Plag.* 147, 1841.

HAB.—British Seas.

a, b. Stuffed. Firth of Forth, Scotland. From Dr. Parnell's collection.

17. RAJA LINTEA. Sharp-nosed Ray.

Raja lævis undulata seu cinerea, *Will.* 69, t. C, n. 5.

Skate, *Penn. Brit. Zool.* iii. 82, t. 9. (Copied from *Shaw, Gen. Zool.* 270, t. 136).

Raja batis, *Bloch, Schneid.* t. 79. (Copied in *Encycl.* ii. f. 6).

Raja oxyrhynchus, *Mont. Wern. Mem.* ii. 423. *Jenyns, Brit. An.* 501, 20 (not *Gmelin*).

Raja fullonica, *Nils. Syn. Ichth.* 119, n. 3 (not *Ascanius*).

Sharp-nosed Ray, *Yarr. Brit. Fish.* 2 ed. ii. 424.

Raja lintea, *Fries*, 29. *Ichth. Scand. Müll. & Henle, Plag.* 147. *Yarr. Brit. Fish.* 2 ed. ii. 556, 1841.

HAB.—North Sea and Scandinavian Seas.

a. Young. Stuffed. Plymouth. Presented by Lieutenant H. F. Spence, R.N.

18. RAJA OXYRHYNCHUS.

Fuller Ray, *Penn. Brit. Zool.* 86, n. 33.

Raja fullonica, *Shaw, Gen. Zool.* 275. *Fabr. Isl.* 34.

Raja oxyrhynchus, *Linn. Gmel.* 1506. *Lacép.* i. 72, t. 4, f. 1.

Bloch, Schneid. 80. (Copied in *Encycl.* pl. 2, f. 7). *Müll.*

& Henle, Plag. 148. *Parn. Ichth. Firth of Forth*, 267, 1838.

Yarr. Brit. Fish. 2 ed. ii. 556, 1841.

Raja ocellata, *Mitch. Trans. New York*, i. 477. *Storer, Rep. Fish.*

Massachu. 191. *De Kay, Nat. Hist. of New York*, 369, pl.

65, f. 212 (male), pt. 1. *Zool.* 1842.

Raja chantenay, *Lesueur, Journ. Acad. Nat. Sci.* iv. 106, pl. 6, 1824.

HAB.—Coast of Europe and East Coast of N. America.

a. Stuffed. Firth of Forth, Scotland. From Dr. Parnell's collection.

b. In spirits. Male.

19. RAJA KENOJEI.

Raja Kenojei, *Bürger, in Müll. & Henle, Plag.* 149. *Rich. Rep. Brit. Assoc.* 197, 1845.

HAB.—S.-W. Coast of Japan.

20. RAJA NASUTA.

Raja nasuta, *Banks, MS.* 44. *Müll. & Henle, Plag.* 150.

HAB.—South Sea.

21. RAJA MAROCCANA.

Raja maroccana, *Bloch, Schneid.* 367. *Müll. & Henle, Plag.* 150.

HAB.—Atlantic Ocean.

22. RAJA SMITHII.

Raja Smithii, *Müll. & Henle, Plag.* 150.

HAB.—South Africa.

23. RAJA CAPENSIS.

Raja capensis, *Müll. & Henle, Plag.* 151.

HAB.—Cape.

24. RAJA LEMPRIERI.

Raja Lemprieri, *Rich. Voy. Erebus & Terror*, 34, pl. 23, 1845.

HAB.—Port Arthur, Van Diemen's Land.

25. RAJA ERINACEUS. Hedge-hog Ray.

Raja erinaceus, *Mitch. Amer. Journ. Sci.* ix. 290, pl. 6. *De Kay, Nat. Hist. of New York*, 372, pl. 78, f. 246, pt. 1. *Zool.* 1842.

HAB.—New Jersey.

26. RAJA AMERICANA. Prickly Ray.

Raja americana, *De Kay, Nat. Hist. of New York*, 368, pl. 66, f. 216 (male), pt. 1. *Zool.* 1842.

HAB.—Staten Island, Richmond County, North America.

27. *RAJA DIAPHANES*. Clear-nosed Ray.

Raja diaphanes, *Mitch. Trans. Lit. Phil. Soc.* i. 478. *De Kay, Nat. Hist. of New York*, 366, pl. 67, f. 218 (male and female), pt. 1. *Zool.* 1842.

HAB.—Coast of New York.

*Doubtful Species.*28. *RAJA OCLATA*.

Raja oculata, *Risso, Hist. Nat.* iii. 149. *Müll. & Henle, Plag.* 151 (not *Mitchell*).

? *Raja bispecularis*, *Benn. Proc. Zool. Soc. Lond.* 146, 1830—31.

HAB.—Mediterranean.

29. *RAJA BRASILIENSIS*.

Raja brasiliensis, *Müll. & Henle, Plag. Nacht.* 195.

HAB.—Brazil.

2. SYMPTERYGIA.

The inner borders of the breast-fins approach one another before the head, diminishing obliquely inwards, and from the fore point of the disk, as in *Trygon*. The hinder edge of the belly-fins is only very slightly undulated, hence the belly-fin is not divided into two lobes. Tail-fin as in *Raja*.

Sympterygia, *Müll. & Henle, Mag. Nat. Hist.* ii. 90, 1838. *Plagiost.* 155.

1. *SYMPTERYGIA BONAPARTII*.

Sympterygia Bonapartii, *Müll. & Henle, Plag.* 155.

HAB. ——— ?

3. URAPTERA.

Snout and belly-fins of *Raja*. Tail thin, and without a terminal-fin.

Uraptera, *Müll. & Henle, Mag. Nat. Hist.* ii. 90, 1838. *Plagiost.* 155.

1. URAPTERA AGASSIZII.

Uraptera Agassizii, Müll. & Henle, *Plag.* 155.

HAB.—Brazil.

5. The fore points of the breast-fins unite together before the head, and form the fore point of the disk. The upper eyelid is adnate. The two inner nasal-flaps are protuberant, and have a common, free, shortly fringed under border, which is fastened in the middle only by a slender bridle to the upper-jaw. The inner corners of the nostril are closely approximated to each other under the nasal-flap. Outer nasal-flap wanting. The skull is higher than in the Rays. The spout-holes are large, and close behind the eyes. Teeth transversely elliptical, with a cross roll, which is blunt or sharp, or divided into points. Belly-fins simple. The tail is thin, often much pointed and whip-like, without lateral cuticular keels: it is naked, or bears one or more long spines with barbs; it has no fin, whether it be a high or low, ledge-like fin. Skin smooth, or set with tubercles or prickles. Such spines as precede the breast-fins of the male Rays, are not extant here.—TRIGONINA.

Trigon, *Cuv. Règ. An.* 2 ed. ii. 399.

Trigones, Müll. & Henle, *Mag. Nat. Hist.* ii. 91, 1838. *Plagiost.* 156.

Trigoniinæ, p., *Swains. Cab. Cycl.* ii. 319.

A. The tail without a spine.—UROGYMNI. ♦

Trygons (§ 2), Müll. & Henle.

Anacanthi, Müll. & Henle, *Mag. Nat. Hist.* ii. 90, 1838. *Plagiost.* 156.

Anacanthis, "Ehrenb." *Cuv. Règ. An.* 2 ed. ii. 400. ♦

Anacanthus, *Swains. Cab. Cycl.* ii. 319.

1. UROGYMNI.

Teeth flat. Tail without a rayed fin, with a hem-like, naked, cuticular under-fin, or entirely naked.

Anacanthus, *Ehrenb. Müll. & Henle, Plag.* 156. *Swains. Cab. Cycl.* ii. 314. (not Gray).

Anacanthus and Urogymnus, Müll. & Henle, *Mag. Nat. Hist.* ii. 90, 1838.

* *Tail without any fin.*

Anacanthus, Müll. & Henle, *Mag. Nat. Hist.* ii. 90, 1838.

1. UROGYMNUM AFRICANUM.

Anacanthus africanus, Müll. & Henle, *Plag.* 157.

Raja africanus, Bloch, *Schneid.* 367.

HAB.—Indian Ocean.

a. Stuffed. India. Presented by T. E. J. Boileau, Esq.

b. Stuffed. (Old collection).

c. Stuffed. Presented by the Zoological Society.

** *Tail with a low, hem-like fin.*

Urogymnus, Müll. & Henle, *Mag. Nat. Hist.* ii. 90, 1838.

2. UROGYMNUM ASPERRIMUM.

Anacanthus asperrimus, Müll. & Henle, *Plag.* 157.

Raja asperrima, Bloch, *Schneid.* 367.

Urogymnus, Müll. & Henle, *Mag. Nat. Hist. N. S.* ii. n. 13, 14.

HAB.—Indian Ocean.

B. *The tail with one or more spines and no fin, or merely a vertical, cuticular hem without rays.*—Pastinacæ.

Trygon (true), Müll. & Henle, *Mag. Nat. Hist.* ii. 90, 1838.

Pastinacæ, Müll. & Henle, *Plag.* 158.

Trygon, Adamson. *Cuv. Règ. An.* 2 ed. ii. 399.

Trigoninæ, p., Swains. *Cab. Cycl.* ii. 319.

Pastinacas, "of the Ancients."

1. TRYGON.

The disk is oval or rhomboidal. The tail is of the same length or longer than the body, without a hem, or with hems which do not reach to the other point. The mouth is slightly arched. The teeth have a point or a cross-roll in the middle, which is sometimes uneven, and before and behind the same there are more or less evident transverse furrows, which become more conspicuous on the side of the tooth. The whole upper surface is more or less wrinkled

the velum of the upper-jaw has a straight, deeply fringed border, behind it a second deeply excavated velum. In the under-jaw generally behind the teeth, a papilla.

Trygon, *Adamson. Cuv. Règ. An.* 2 ed. ii. 399. *Müll. & Henle, Mag. Nat. Hist.* ii. 90, 1838. *Plagiost.* 158. *Swains. Cab. Cycl.* ii. 314.

Trigonobatus, *Blainv. Bull. Soc. Phil.* 121, 1816.

Dasybatus, *Rafin. Caratt.* 1810.

* *Tail wholly finless.*

Himantura, *Müll. & Henle, Mag. Nat. Hist.* ii. 90, 1838.

Trigon (§ 3), *Cuv. Règ. An.* 2 ed. ii. 400.

1. TRYGON UARNAK.

Trygon Uarnak, *Müll. & Henle, Plag.* 158.

Raja Omnes Schërit, *Forsk. Descr.* 918, n. 16.6. *Linn. Gmel.* 1509.

Raja Arnak (Trygon omescherit), *Rüpp. Atlas*, 51.

Pastinachus Uarnak, *Rüpp. Chondropt.* 9, t. 19, f. 2.

Trigon Russellii, *Gray & Hardw. Illustr.* 100.

Trigon, *Hardw. Icon. ined.* 88, 91.

Raja Uarnak, *Forsk. Descr.*

Trygon Russellii, *Gray & Hardw. Illustr. Ind. Zool.* t. 100.▲

HAB.—Indian and Red Seas.

a. Stuffed. Red Sea. From Dr. Rüppell's collection.

b, c. Stuffed. (Var.) Madras. Presented by T. C. Jerdon, Esq.

2. TRYGON GERKARDI.

Body rhomboidal, snout projecting, attenuated. Pectoral-fins rounded, subangular, the transverse diameter, rather greater than the distance between the tip of the snout, and the end of the anal rays; upper surface quite smooth, with the exception of three very small, and one larger, oblong, osseous, tubercles, in the centre of the dorsal line. Tail smooth, round, tapering to the end in a very fine point, about four times the length of the body, with a finely serrated spine, which is situated about three inches from its insertion. The general colour in the stuffed specimen, is a uniform pale brown with about sixty-five distinct white rings upon the tail.

	in.
Length from tip of snout to extremity of caudal	34
Length from tip of snout to base of caudal	7
Length from tip of snout to anterior edge of orbit	2
Length from tip of snout to large osseous tubercle	4
Breadth across the fins	8½

HAB.—Indian Ocean.

a, b. Stuffed. India. From Mr. Argent's collection.

3. TRYGON WALGA.

Trygon Walga, Müll. & Henle, *Plag.* 159. *Hardw. Icon. ined.* 83, 84.

HAB.—India. Red Sea.

a. Stuffed.

b, c. In spirits. Singapore. From Mr. Argent's collection.

4. TRYGON PURPUREA.

Trygon purpurea, A. Smith, Müll. & Henle, *Plag.* 160.

HAB.—Cape Seas. Mus. Dr. A. Smith.

Doubtful Species.

5. TRYGON JABEBARA.

Trygon Jabebara, Müll. & Henle, *Plag.* 160.

Jabebara, Ruysch, *Theatr.* i. 27.

Jabebirete, Ruysch, *Theatr.* i. 27. *Marcgr.* 175. (Copied in Ruysch, *Thes.* 28, f. 7).

Raja guttata, Bloch, *Schneid.* 361. (*Jabebirete*).

HAB.—Brazil.

6. TRYGON AIEREBE.

Trygon Aiereba, Müll. & Henle, *Plag.* 160, 196.

Aiereba, L. Princ. *Marcgr.* 175. (Copied from Ruysch, *Thea.* t. 28, f. 6.

Raja orbicularis, Bloch, *Schneid.* 361.

Anacanthos, sp.? Cuv. *Rég. An.* 2 ed. ii. 400.

HAB.—Brazil.

** Tail with a hem-like fin on the underside.

Hemitrygon, Müll. & Henle, *Mag. Nat. Hist.* 90, 1838.

7. TRYGON BENNETTI.

Trygon Bennettii, Müll. & Henle, *Plag.* 160. *Rich. Rep. Brit. Assoc.* 197, 1845.

HAB.—China.

a. In spirits. China. Presented by J. R. Reeves, Esq.

8. TRYGON THALASSIA.

Trygon thalassia, Müll. & Henle, *Plag.* 161, 197.

Trygon thalassia auch Squatinoraja and Pastinaca marina Dioscoridis, *Fabius Columna, Phytobas.* 105, t. 28. *Gesner*, 89 (tail). *Aldrov.* 428. (Copied from *Gesner*). *Aldrov.* 427 (tail with teeth and mouth).

Pastinaca marina, *Willoughby, D.* 5, f. 3. (Copied from *Columna*).

Trygon Gesneri, *Cuv. Règ. An.* 2 ed. ii. 400. (From *Gesner*, 77).

HAB.—Adriatic.

a. Stuffed.

b. (Tail).

*** Tail with a cuticular hem on the upper and under side.

Trygon (restricted), Müll. & Henle, *Mag. Nat. Hist.* ii. 90, 1838, Trygon (§ 1), *Cuv. Règ. An.* 2 ed. ii. 399.

9. TRYGON PASTINACA.

Trygon pastinaca, *Bonap. (in Müll. & Henle, Plag.* 161).

Pastinaca marina, *Belon.* 94. (Copied from *Gesner*, 799). *Aldrov.* 426. *Moscardo*, 224.

Pastinaca, *Salviani*, 144, t. 49. (Copied from *Willoughby, C.* 3). *Jonst.* ix. 7. *Bonnan. Mus. Kirch.* 161, t. 39, f. 24.

Raja pastinaca, Müll. *Prodr.* 310. *Bloch, Schneid.* 82. (Copied from *Encycl.* iii. f. 8). *Linn. Faun. Suec. Ed. Retz.* 304. *Linn. Gmel.* 1509, 7. *Cornide, Ens.* 126. *Bloch, Schneid.* 360. *Shaw, Gen. Zool.* 182. *Risso, Ichth.* 10. *Nils. Prodr.* 120. *Jenyns, Brit. An.* 518. *Blainv. Faun. Fr.* 35, pl. 6.

Pastenade, *Duham.* § 9, pl. 9, f. 8.

- Trygon lymma, *Geoff. St. Hilaire, Descr. Eg.* 333, pl. 27, f. 1.
 Trygon vulgaris, *Risso, Hist. Nat.* iii. 160.
 Trygon Aldrovandi, *Risso, Hist. Nat.* iii. 160.
 Dayatis Pastinaca, *Raf. Ind.* 49.
 Pastenaque commune, *Dict. Des. Sc. Nat.* 25.
 Sting-Ray, *Yarr. Brit. Fish.* 2 ed. ii. 442.
 Trygon Pastinaca, *Parn. Trans. Edinb. Roy. Soc.* 145, 1839. *Bonap.*
 fasc. vi. *Müll. & Henle, Plag.* 161.

HAB.—European Seas.

a. Stuffed. From Dr. A. Smith's collection.

b. Stuffed. Plymouth. Presented by Lieut. F. H. Spence.

10. TRYGON BRUCCO.

Trygon Brucco, *Bonap. in Müll. & Henle, Plag.* 162.

HAB.—South America.

a. In spirits. South America. Presented by Sir R. Schomburgk.

11. TRYGON VIOLACEA.

Trygon violacea, *Bonap. Faun. Ital.* fasc. i. *Müll. & Henle, Plag.*
 162.

HAB.—Sicily.

12. TRYGON SABINA.

Trygon Sabina, *Lesueur, Phil. Acad.* iv. 109. *Müll. & Henle,*
Plag. 163. *De Kay, Nat. Hist. of New York,* 375, pt. i. *Zool.*
 1842.

Raie tuberculée, *Lacép.* ii. 106. *Cuv. Règ. An.* 2 ed. ii. 399.

Trygon gymnura (young), *Müll. Erman. Reis.*

Trygon osteosticta (old, with the tail broken), *Müll. Erman. Reis.*

HAB.—South America.

a. In spirits? South America. Presented by Sir R. Schomburgk.

b. In spirits.

13. TRYGON IMBRICATA.

Trygon imbricata, *Müll. & Henle, Plag.* 164.

Raja imbricata, *Bloch, Schneid.* 366.

Isakurrah tenkee, *Russ.* 1, t. 4. *Cuv. Règ. An.* 2 ed. ii. 399.

HAB.—Coromandel, Java.

14. TRYGON KUHLII.

Trygon Kuhlîi, *Mull. & Henle, Plag.* 164.

HAB.—India.

15. TRYGON AKAJEI.

Pastinaca Akajei, *Burger, MS.*

Trygon akajei, *Mull. & Henle, Plag.* 165. *Rich. Rep. Brit. Assoc.* 197, 1845.

HAB.—South-West of Japan.

16. TRYGON ZUGEI.

Trygon Zugei, *Burger, in Mull. & Henle, Plag.* 165. *Rich. Rep. Brit. Assoc.* 197, 1845.

HAB.—Japan, India, China.

17. TRYGON SAYI.

Trygon Sayi, *Mull. & Henle, Plag.* 166.

Raja Say, *Lesueur, Phil. Acad.* i. 42.

HAB.—The American Coast, West Indies.

a. In spirits. Presented by the Zoological Society.

18. TRYGON HYSTRIX.

Trygon hystrix, *Mull. & Henle, Plag.* 167, 197. *D'Orb. Voy. Atlas, Ichth.* pl. 17.

Trygon hystrix? *Schomb. Nat. Lib.* v. 181, pl. 20, 1843.

HAB.—South America.

19. TRYGON STROGYLOPTERUS. Round-winged Trygon.

Trygon stroglyopterus, *Schomb. Nat. Lib.* v. 183, pl. 22, 1843.

HAB.—Rio Branco.

20. TRYGON GARRAPA. Ocellated Trygon.

Trygon garrapa, *Schomb. Nat. Lib. Ichth.* v. 182, pl. 21, 1843.

HAB.—Guiana, Rio Branco.

21. TRYGON HASTATA. Whip Sting Ray.

Pastinaca hastata, *De Kay, Nat. Hist. of New York*, 373, pl. 65, f. 214 (female), pt. 1. *Zool.* 1842.

? *Raja centroura*, *Mitch. Trans. Lit. Phil. Soc.* i. 479.

HAB.—Long Island, North America.

22. TRYGON CARNEA.

Trygon carnea, *Rich. Rep. Brit. Assoc.* 197, 1845.

HAB.—China Seas, Macao.

Doubtful Trygones.

1. *Raja lævis*, *Gronov. Mus.* i. 64, 141. *Zooph.* 37, 158.

2. *Raja*, No. 1, *Browne, Jam.* 459.

3. *Raja*, No. 2, *Browne, Jam.* 459.

4. *Raja*, No. 3, *Browne, Jam.* 459.

5. *Raja cuculus*, *Lacép. Poiss.* iv. 669, 673.

6. *Darybatis Ujo*, *Rafin. Caratt.* 16. *Uroxis rigo*, *Index.*

7. *Tenkee Shindraki*, *Russ. Ind. Fish.* 5. *Cuv. Règ. An.* 2 ed. ii. 399.

2. ELIPESURUS.

Tail short or deficient, the base covered with strong spiny excrescences. Body oval. Eyes prominent. Nostrils very large.

1. ELIPESURUS SPINICAUDA. Spine-tailed Elipesurus.

Elipesurus, *Schomb. Nat. Lib.* v. 184, 1843.

Elipesurus spinicauda, *Schomb. Nat. Lib.* v. 184, pl. 23, 1843.

Naree-nareé, *local name.*

HAB.—Rio Branca, Fort San Joaquim.

3. DASYATIS.

The disk is nearly, or more than twice as broad as long, and the tail is short, for the most part shorter than the body. Tail naked or with low fins. Mouth a little arched. The dental-plate reaches

to the corners of the mouth. Teeth with from 1—3 points. The upper velum is indistinct without a fringe. The papillæ are wanting in the under-jaw. The skin is smooth or studded with knobs.

Pteroplatea, Müll. & Henle, *Mag. Nat. Hist.* 90, 1838. *Plagiost.* 168.

Dasyatis, Rafin. *Index*, 49. *Anal.* 93. *Char.* 16.

Trygon (§ 3), Cuv. *Règ. An.* 2 ed. ii. 400.

1. DASYATIS ALTAVELA.

Pastinaca marina altera, *pteryplatea*, *altavela*, Columna, *Aquat.* 2.

Pastinaca marina altera, Aldrov. 438. Willoughby, 65. (Copied from Columna). Ray, 24, 3.

Raja altavela, Linn. *Gmel.* 1509.

Dasyatis altavilla, Rafin. *Ind.* 49.

Trygon altavela, Bonap. xiii. Lowe, *Proc. Zool. Soc. Lond.* 92, 1839.

Pteroplatea altavela, Müll. & Henle, *Plag.* 168.

Pastinaque de F. Columna, Blainv. *Fauna Fr.* 37.

HAB.—Mediterranean Ocean.

2. DASYATIS CANARIENSIS.

Pteroplatea canariensis, Valenc. Webb, *Canar.* t. Weignmann, *Arch.* ii. 201, 1845.

HAB.—Canaries, Webb.

3. DASYATIS MICRURA.

Trygon micrura, Bloch, *Schneid.* 300. Cuv. *Règ. An.* 2 ed. ii. 400.

Raja pœcilura, Shaw, 291. *Hardw. Icon. ined.* 79, 81.

Tenkee Kunsul, *Russ.* 6.

Trygon pœcilurus, Benn. *Life of Raffles*, 694.

Pteroplatea micrura, Müll. & Henle, *Plag.* 169. *Rich. Rep. Brit. Assoc.* 197, 1845.

HAB.—Indian Ocean.

a. Stuffed. Calcutta. From Mr. Bartlett's collection.

b. Stuffed. India. Presented by T. E. J. Boileau, Esq.

c. In spirits. Singapore.

Var. ? Japonicus.

a, b. In spirits. Japan.

c. In spirits. China. Presented by J. R. Reeves, Esq.

"*Pteroplatea Japonicus*, Gray, *MSS. Brit. Mus.*"



4. DASYTIS MACLURA.

Trygon maclura, *Lesueur, Phil. Journ.* i. 41. *Cuv. Règ. An.* 2 ed. ii. 400.

Pastinaca maclura, *De Kay, Nat. Hist. of New York*, 375, pl. 65, f. 213 (female), pt. 1. *Zool.* 1842.

Pteroplatea maclura, *Müll. & Henle, Plag.* 169.

HAB.—North America.

4. HYPOLOPHUS.

Body formed as in Trygon. The tail with a high inferior fin, which as in Trygon does not reach the end of the tail. The upper-fin wanting. It differs from Trygon principally in the peculiar form of the mouth and the teeth. The under-jaw projects forward in the middle, and on each side of the point there is a dish-shaped concavity. The edge of the upper-jaw is much deeper in the middle; at the point of the under-jaw it bulges, and on the side is very convex. The teeth are paved, hexagonal, broader than long; in the upper-jaw in the middle small, at the side large; in the under-jaw seemingly equally large, but towards the outermost smaller.

Hypolophus, *Müll. & Henle, Mag. Nat. Hist.* 90, 1838. *Plagiost.* 170.

Trygon (§ 2), *Cuv. Règ. An.* 2 ed. ii. 399.

1. HYPOLOPHUS SEPHEN. Pearled Ray.

Raja Sephen, *Forsk. Descr.* 17. *Lacép.* i. 123. *Bloch, Schneid.* 364.

Pearled Ray, *Shaw, Gen. Zool.* 288.

Trygon Sephen, *Cuv. Règ. An.* 2 ed. ii. 399. *Rüpp. Atlas.* 52. *Rüpp. Wirb.* 19, f. 5 (teeth). *Hardw. Icon. ined.* 92.

Trygon Forskalii, *Rüpp. Atlas*, 53, 12, 2

Hypolophus Sephen, *Müll. & Henle, Plag.* 170.

Var. ? Wolga tenkee, *Russ.* 3.

HAB.—Indian Ocean.

a. Stuffed.

b. Stuffed.

c. Stuffed. India. Presented by J. C. Jerdon, Esq., M.D.

d, e. Stuffed. India. From Mr. Warwick's collection.

5. TÆNIURA.

Disk roundish. Tail not much longer than the body, depressed before the spine, compressed behind the same, with a high underfin, which begins behind the spine and reaches quite to the end. On the upper side of the tail there is often a shorter or longer, low cuticular hem up to the point of the tail. The spine shortly before the middle of the tail. Nostrils approximated to each other as in *Trygon*. Teeth flat, with a cross-roll or pointed. Mouth straight or undulated. The upper velum wholly straight, the under one without a papilla.

Tæniura, Müll. & Henle, *Mag. Nat. Hist.* ii. 90, 1838. *Plagiost.* 171.

Trygon (§ 2), Cuv. *Rég. An.* 2 ed. ii. 400.

Pastinaca, Swains. *Cab. Cycl.* ii. 319.

1. TÆNIURA LYMMA.

Tæniura Lymma, Müll. & Henle, *Plag.* 171.

? *Raja lymma*, *Forsk. Descr.* 17.* *Lacép.* i. t. 4, f. 2, 3.** *Shaw, Gen. Zool.* 287. *Linn. Gmel.* 1511. *Bloch, Schneid.* 364. *Cuv. Rég. An.* 2 ed. ii. 400.

Raie torpille, *Lacép.* i. t. 6, f. 1 (without spines).

Trygon lymma, Cuv. *Rég. An.* 2 ed. ii. 400. *Rüpp. Atlas*, 51, t. 13, f. 1. *Rüpp. Wirb.* 19, f. 4 (teeth).

Trygon ornata, *Gray & Hardw. Illustr.*

Trygon Halgani, *Lesson, Duperry, Voy.* pl. 2, p. 100.

a. Stuffed. Red Sea. From Dr. Ruppell's collection.

b. In spirits.

c. In spirits. Singapore. From Mr. Argent's collection.

d. In spirits. Singapore. Presented by Gen. Hardwicke.

e. In spirits. (Very young).

2. TÆNIURA MEYENI.

Tæniura Meyeni, Müll. & Henle, *Plag.* 172.

a. In spirits. Cape Upstart. Presented by J. B. Jukes, Esq.

3. TÆNIURA GRABATA.

- Tæniura Grabata, Müll. & Henle, *Plag.* 172.
 Trygon Grabatus, *Isid. Geoffr. St. Hil. Eg.* 332, pl. 25, f. 1, 2.
 Raia Lymma, var. *Cuv. Règ. An.* 2 ed. ii. 400.
 HAB.—Alexandria.

4. TÆNIURA MOTORO.

- Tæniura motoro. Müll. & Henle, *Plag. Nachtr.* 197.
 Raja motoro, *Natterer.*
 HAB.—

C. A spine upon the tail and a terminal-fin with rays.—Urolophi.

- Urolophi, Müll. & Henle, *Mag. Nat. Hist.* ii. 90, 1838. *Plagiost.* 173.
 Leiobatus aut R. lævis, *Blainv. Bull. Soc. Phil.* 121, 1816.

1. TRYGONOBATUS.

Disk round or rhomboidal. Tail without a back-fin, with a terminal-fin which is wider below, but reaches forwards above, with cartilaginous rays. Tail flat forwards, compressed behind. Teeth and mouth as in Trygon. Above, a gently undulated velum: the under velum with five warts.

- Trygonobatus, *Dum. Dec. Ichth.* 6.
 Urolophus, Müll. & Henle, *Mag. Nat. Hist.* ii. 90, 1838. *Plagiost.* 173. (not Dumeril).
 Trygon (§ 2), *Cuv. Règ. An.* 2 ed. ii. 400.
 Leiobatus (cruciatus), *Blainv. Bull. Soc. Phil.* 121, 1816.

1. TRYGONOBATUS TORPEDINUS.

- Pastinaca marina, *Sloane, Jam. Bd.* ii. 277, t. 246, f. 1.
 Trygonobatus torpedinus, *Desm. Dec. Ichth.* 6, fig. (*Copied in Dict. Class. Sci. Nat.*).
 Raja jamaicensis, *Cuv. Règ. An.* 2 ed. ii. 400. (*Copied from Sloane*). *Banc. Zool. Journ.* v. 82. (tail).
 Urolophus Indianus, Müll. & Henle, *MS. Cat. of Zool. Soc. Lond.* n. 796.
 Urolophus torpedinus, Müll. & Henle, *Plag.* 173.
 a. In spirits. Cuba.

2. TRYGONOBATUS AURANTIACUS.

Urolophus aurantiacus, Müll. & Henle, *Plag.* 173.

? *Raja cruciata*, Lacép. *Ann. du Mus.* iv. 201, pl. 55, f. 2.

Pastinaca Jeinorui, Bürger, *MS.*

Trygon (§ 2) *cruciata*, Cuv. *Rég. An.* 2 ed. ii. 400.

Leibobatus cruciatus, Blainv. *Bull. Soc. Phil.* 121, 1816.

HAB.—Gotto Island.

3. TRYGONOBATUS ARMATUS.

Urolophus armatus, Valenc. in Müll. & Henle, *Plag.* 174.

HAB.—Antilles.

4. TRYGONOBATUS EPHIPIATUS.

Urolophus ephippiatus, Rich. *Voy. Erebus & Terror*, 36, pl. 24, 1845.

HAB.—Storm Bay, Van Diemen's Land.'

D. *A spine upon the tail, and a rayed back-fin before the spine.*
—*Trygonopteræ.*

Trygonopteræ, Müll. & Henle, *Plag.* 171.

1. TRYGONOPTERA.

Disk-shaped, as in *Trygon*. Teeth somewhat pointed. Tail short, broader at the end, with a small back-fin immediately before the spine.

Trygonoptera, Müll. & Henle, *Plag.* 174.

1. TRYGONOPTERA TESTACEA.

Trygonoptera testacea, Müll. & Henle, *Plag.* 174.

Raja testacea, Banks, *MS.* 46.

HAB.—New Holland.

2. ÆTOPLATEA.

Like *Pteroplatea*, with a back-fin before the spine.

Ætoplatea, Valenc. in Müll. & Henle, *Plag.* 175.

1. ÆTOPLATEA TENTACULATA.

Ætoplatea tentaculata, Müll. & Henle, *Plag.* 175.

HAB.—India, Red Sea.

6. The roots of the breast-fins loose; their rays wholly on the side of the head, but the rays are again developed before the head, and form a kind of head-fin which constitutes the point of the disk. The head thereby projects from the disk up to the region of the gills; and it is more boldly arched than in the other families. The nasal-flaps of both sides are tied to a four-sided lobe, which is fringed on its under border, and reaches to the mouth. The nostrils stand close together in the middle, and are separated only by a thin fillet which passes over the dorsal surface of the nasal-flap from both angles of the mouth, and is gently pointed in the middle. Mouth transverse. The dental surface of the jaws extends far into the cavity of the mouth. Teeth large, mosaic-like, even pavement-like. The upper velum springs from the gums and cheeks, is very long, with a convex border, and is fringed in the middle. The under velum lies close to the dental border. Only one papilla behind the same. Eyes and spout-holes in the lateral edges of the skull. Spout-holes separated from the eyes by a broad bridge. Eyelids wanting. Tail long, whip-formed, with a back-fin on its root and a spine behind the same.—MYLIOBATINA.

Myliobatis, Müll. & Henle, *Mag. Nat. Hist.* ii. 90, 1838.

Myliobatides, Müll. & Henle, *Plag.* 176.

Leiobatus, Rafin. *Caratt.* 1810.

Ætobatus aut *R. aquilæ*, Blainr. *Bull. Soc. Phil.* 121, 1816.

Pterocephalinæ, Swains. *Cub. Cycl.* ii. 319.

1. MYLIOBATIS.

Snout pointed through the united foremost rays of the breast-fin. The edge of the conjoined nasal-flaps is straight. Mouth transverse. Both jaws with a straight border. Teeth six-cornered,

behind one another, and forming in the middle a row, conformable with the border, transverse crowns. On the sides smaller four-cornered, pavement-like pieces, which catch in the spaces of the middle crowns. The dental surface of the upper-jaw is convex from before, backwards and from side to side; that of the under-jaw flat, scarcely concave, neither occupy the whole breadth of the jaw.

Myliobatis, *Dum. Zool. Anal.* 1806. *Cuv. Règ. An.* 2 ed. ii. 400.
Müll. & Henle, Mag. Nat. Hist. ii. 90, 1838. *Plagiost.* 176.
Swains. Cab. Cycl. ii. 319. •

Ætobatus aut *R. aquilæ*, *Blainv. Bull. Soc. Phil.* 121, 1816.

Leibobatus, *Rafin. Caratt.* 93, 1810.

Spines sometimes numerous, see *Freycinet, Zool.* t. 42, f. 3, with five spines.

1. MYLIOBATIS AQUILA.

Myliobatis aquila, *Risso, Hist. Nat.* iii. 162. *Agassiz*, iii. t. D, f. 9, (teeth). *Cuv. Règ. An.* 2 ed. ii. 400. *Müll. & Henle, Plag.* 176.

Aquila marina, *Bélon.* 97. (Copied in *Gésner*, 87).

Aquila, *Salv.* 147, f. 50. (Copied in *Willoughby*, 2). *Jonst.* ix. 9. *Ruysch, Thes.* ix. 9. *Aldrov.* 439, 440. *Brunnich*, 3, n. 4. *Duhamel*, sect. ix. pl. 10.

Aquilone, *Columna, de Aquat.* 2.

Raja aquila, *Linn. Gmel.* 1508, n. 6. *Encycl.* f. 10. *Bloch, Schneid.* 360. *Risso, Ichth.* 9. *Blainv. Faun. Fr.* 38, t. 7.

Eagle Ray, *Shaw, Gen. Zool.* 141. (Copied from *Willoughby*). *Yarr.* ii. 445.

Myliobatis bovina, *Geoff. Egypte*, 336, pl. 26, f. 1.

Myliobate aigle, *Dict. Sci. Nat.* 24.

Myliobatis aquila, *Risso, Hist. Nat.* iii. 162. *Agassiz*, iii. t. D, f. 9, (teeth). *Cuv. Règ. An.* 2 ed. ii. 400.

Whip Ray, *Jenyns, Brit. An.* 519.

Myliobatis noctula, *Bonap. fasc.* 2.

Pastinaca marina, *Matthiol.* 325.

HAB.—Mediterranean, Cape.

a. Stuffed. ——— ?

b. Stuffed.

c. In spirits. (Bleached).

d. In spirits. Young. Madeira.

e. In spirits. Head. Madeira.

2. MYLIOBATUS NIEUHOFII.

- Aquila marinæ species, *Willoughby*, 6, t. 10, f. 3. (*App.*)
 Raja Nieuhofii, *Bloch, Schneid.* 364. *Cuv. Rég. An.* 2 ed. ii. 400.
 Mookarrha Tenkee, *Russ.* t. 7.
 Fasciated Ray, *Shaw, Gen. Zool.* 286. (*Copied from Willoughby*).
 Myliobatis aquila, *Bonap. fasc.* 2. *Hardw. Icon. ined.* 97.
 Raja macrocephala, *Banks, MS.* 48.
 Myliobatis Nieuhofii, *Müll. & Hentle, Plag.* 177. *Rich. Rep. Brit. Assoc.* 198, 1845.

HAB.—India, New Holland, Mediterranean.

3. MYLIOBATUS MILVUS.

- Myliobatis Milvus, *Valenc. in Müll. & Hentle, Plag.* 178.

HAB.—Red Sea.

4. MYLIOBATUS MACULATUS.

- Myliobatis maculatus, *Gray & Hardw. Illustr.* 101. *Hardw. Icon. ined. Müll. & Hentle, Plag.* 178. *Rich. Rep. Brit. Assoc.* 198, 1845.

HAB.—India.

a. Stuffed.

5. MYLIOBATUS VULTUR.

- Myliobatis vultur, *Müll. & Hentle, Plag.* 179. * *Rich. Rep. Brit. Assoc.* 198, 1845.

HAB.—China.

a. In spirits. China. Presented by J. R. Reeves, Esq.

6. MYLIOBATUS OCULEUS.

- ? Myliobatis oculus, *Rich. Rep. Brit. Assoc.* 198, 1845.

HAB.—China.

7. MYLIOBATUS EPISCOPUS.

- Myliobatis episcopus, *Valenc. Webb, Canar.* t. f.

HAB.—Canaries.

2. ÆTOBATIS.

The snout pointed, undivided. The under edge of the conjoined nasal-flaps deeply notched. The bridle of the nasal-flap is beset with papillæ, which range themselves transversely before the upper-jaw. The upper-jaw has a straight edge. The crowns of the teeth form a row on each jaw, and in the under-jaw they are arched parallel to the edge of the last ones. The crowns of the teeth do not occupy the entire breadth of the jaw.

Myliobatis (§ 2), *Cuv. Règ. An.* 2 ed. ii. 401.

Ætobatis, p. *Blainv. Bull. Soc. Phil.* 121, 1816.

Ætobatis, *Müll. & Henle, Mag. Nat. Hist.* ii. 91, 1838. *Plagiost.* 179. *Swains. Cab. Cycl.* ii. 319.

1. ÆTOBATIS NARINARI.

Ætobatis Narinari, *Müll. & Henle, Plag.* 179.

Narinari, *Lib. Princ. Braz. Naturg.* i. t. 332. *Marcgr.* 176. (Copied from *Ruysch, Thes.* t. 39, f. 6).

La raie aigle, *Lacép.* i. t. 6, f. 2.

Raja Narinari, *Bloch, Schneid.* 361. *Euph. in Vetensk. Acad. Handl.* 217, t. 10, 1790.

Eel-Tenkee, *Russell*, 8.

Guttated Ray, *Shaw, Nat. Misc.* 142.

Raja quinqueaculeata, *Quoy & Gaim. Freyc.* 200, pl. 43, f. 3.

Myliobatis Narinari, *Benn. Life of Raffles*, 694. *Agassiz*, iii. t. D, 1, 2. (teeth). *Willoughby*, t. C, 1, f. 5. (Copied von *Marcgr.*).

Myliobates Eel-Tenkee, *Rüpp. Chondropt.* 11, t. 19, f. 3. (teeth).

HAB.—Indian Ocean.

a. Stuffed.

b. In spirits. Sumatra. From Sir Stamford Raffles' collection.

c. In spirits. Presented by the Zoological Society.

d, e. Stuffed.

2. ÆTOBATIS FLAGELLUM.

Raja flagellum, *Bloch, Schneid.* 361, t. 73.

Ætobatis flagellum, *Müll. & Henle, Plag.* 180. *Rich. Rep. Brit. Assoc.* 198, 1845. *Icon. Reeves*, 273. *Hard. Cart.* 101.

HAB.—India, Red Sea, China.

3. RHINOPTERA.

Snout deeply divided by a mesial notch. The cranial-fin does not lie in the same plane with the breast-fin, but more beneath, and it is joined to the under root of the breast-fin. Moreover, the rays of the cranial-fin begin wider behind than the rays of the breast-fin end. The under edge of the nasal-flap straight; its outer angle pointed. On each side of their dorsal surface is a longitudinal fold. The borders of both jaws straight. The teeth stand in from three to five rows of broad six-cornered crowns, near to one another, and diminishing in size towards the sides. Moreover, on the outside is a smaller row, which is not broader than long: they occupy the whole breadth of the jaw.

Miliobatis, sp., *Geoff. Desc. Egypt.*

Rhinoptera, *Kuhl, MS. Cuv. Règ. An. 2 ed. ii. 401. Müll. & Henle, Mag. Nat. Hist. ii. 91, 1838. Plagiost. 181. Swains. Cab. Cycl. ii. 319.*

1. RHINOPTERA MARGINATA.

Rhinoptera marginata, *Cuv. Règ. An. 2 ed. ii. 401. Müll. & Henle, Plag. 181.*

Myliobates marginata, *Is. Geoff. St. Hil. Descr. d'Ég. 334, pl. 25, f. 3, 4.*

HAB.—Mediterranean.

a. Teeth.

2. RHINOPTERA LALANDII.

Rhinoptera Lalandii, *Valenc. in Müll. & Henle, Plag. 182.*

HAB.—Brazil.

3. RHINOPTERA BRASILIENSIS.

Raja Myliobatis, *Jussieu.*

Rhinoptera brasiliensis, *Cuv. Règ. An. 2 ed. ii. 401. Müll. Myxi. 237. Müll. & Henle, Plag. 182. Jussieu, Mém. de Par. 1721. pl. 4, f. 12.*

Myliobatis Jussieu, *Agassiz, iii. t. D, 8. (teeth). (Copied from Jussieu). Owen, Odont. pl. 25, f. 2.*

HAB.—Brazil.

4. RHINOPTERA JAVANICA.

Rhinoptera javanica, Müll. & Henle, *Plag.* 182. *Monro, Schneid. Phys. d. Fische.* t. 34, f. 2—4. (teeth).

HAB.—Java.

5. RHINOPTERA ADSPERSA.

Rhinoptera adpersa, *Valenc. in Müll. & Henle, Plag.* 183.

HAB.—India.

6. RHINOPTERA QUADRILoba. Cow-nose Ray.

Rhinoptera quadriloba, *Cuv. Règ. An.* 2 ed ii. 401. *De Kay, Nat. Hist. of New York,* 375, pl. 66, f. 217, pt. 1. *Zool.* 1842.

Raia bonasus, Mitch. Trans. Lit. Phil. Soc. i. 479.

Raia quadriloba, Lesueur, Journ. Acad. Nat. Sci. i. 44. *Müll. & Henle, Plag.* 183.

HAB.—N. America.

7. RHINOPTERA SMITHII.

a. Stuffed. Antarctic Seas. From the Antarctic Expedition. Presented by the Admiralty.

Doubtful Species.

1. *Myliobatis Tremenvillii, Lesueur, Journ. Acad. Phil.* iv. 112.

2. *Myliobatis, Lacép.* i. t. 6, f. 3.

7. The fore edge of the head straight, transverse. The cranial-fins spring from the under edge of the root of the breast-fins, and stand like ears on the sides of the head. The outer edge of the head-fin is curled upwards and inwards. The mouth before or beneath, very broad, reaches nearly to the ears. The under edge of the conjoined nasal-flaps straight. The nostrils wide, outwards, near the head-fins. Teeth very small. The eyes lie on the side of the skull, and the fore edge of the breast-fins begins behind them. The spout-holes, situated on the dorsal surface of the body, are separated from the eyes by a wide interspace. The tail is as long or longer than the body, and bears a back-fin behind which there is a spine.—CEPHALOPTERA.

Cephaloptera, Müll. & Henle, *Mag. Nat. Hist.* ii. 91, 1838. *Plagiost.* 184.

Obs. — In *C. Olfersii* the tail is short, and there is no spine behind the back-fin, nor is there any spine in Müller & Henle's figure of Cephaloptera.

1. CEPHALOPTERA.

Mouth on the ventral surface. Teeth in both jaws small, flat, pavement-like, of diverse forms. The rays of the breast-fin extend close up to the skull. The fore edge of the breast-fin describes a convex curve from the skull, behind the eyes, and up to the point.

Cephaloptera, *Dum. Zool. Anal. Cuv. Règ. An.* 2 ed. ii. Müll. & Henle, *Mag. Nat. Hist.* ii. 91, 1838. *Plagiost.* 184.

Dicerobatis, *Blainv. Bull. Soc. Phil.* 121, 1816.

Pterocephala, *Swains. Cab. Cycl.* ii. 319.

Mobula, *Rafin.*

1. CEPHALOPTERA GIORNA. Cephaloptera.

Cephaloptera Giorna, Müll. & Henle, *Plag.* 184. *Giorna, Mém. Acad. Turin*, 2, f. 1.

Raja fabroniana, *Lacép.* v. 663, t. 20.

Raja Giorna, *Risso, Ichth.* 14, 1. *Cuv. Règ. An.* 2 ed. ii. 402.

Raja Massena, *Risso, Ichth.* 15, 2, p. 293.

Cephalopterus Massena, *Risso, Hist. Nat.* 164.

Raja Mobula, *Blainv. Faun. Fr.* 41, pl. 8.

Raja cephaloptera, *Bloch, Schneid.*

Mobula auriculata, *Rafin.* 1810.

Apterurus fabroni, *Rafin.* 1810.

Pterocephala Giorna, *Swains. Cab. Cycl.* ii. 319.

HAB.—Mediterranean, N. America.

2. CEPHALOPTERA OLFERSII. Indian Cephaloptera.

? Eregoodoo-Tenkee, *Russell*, 9, 10.*

Cephaloptera Olfersii, Müll. *Myxin.* 311. Müll. & Henle, *Plag.* 185.

a. Stuffed. Indian Ocean. Presented by T. C. Jerdon, Esq.

3. CEPHALOPTERA KUHLII. Kuhl's Cephaloptera.

Cephaloptera Kuhl*i*, *Valenc. in Müll. & Henle, Plag.* 185.

HAB.—India.

4. CEPHALOPTERA JAPONICA. Japan Cephaloptera.

Cephaloptera Japonica, *Müll. & Henle, Plag.* 185.

HAB.—Japan.

2. CERATOPTERA.

Mouth at the end of the snout: the border of the upper-jaw concave: the under-jaw convex forwards. Teeth wanting in the upper-jaw: in the under-jaw they are small scale-like leaflets. The rays of the breast-fins do not go up to the skull, and a considerable part of the root of these fins rests between the head-fin and root-fin, without rays. The fore edge of the fin is incurved, so that in the beginning it lies on a line with the lateral edge of the skull, and seems to spread itself outwards, first at the third gill-opening.

Ceratoptera, *Müll. & Henle, Mag. Nat. Hist.* ii. 91, 1838. *Plagiost.* 186.

1. CERATOPTERA JOHNNI. Sea Devil.

Ceratoptera John*i*, *Müll. & Henle, Plag.* 186.

? Cephaloptera Giorna, *Lesueur, Phil. Acad.* 116. t. 4, pt. 1.

Sea-Devil, *Lamont, Edin. Phil. Journ.* ix. 113. *Banc. Zool. Journ.* 444.

Cephalopterus vampyrus, *Mitch. Ann. Lyceum Nat. Hist. New York*, i. pt. 1, 23, t. 2, f. 1. *Isis*, 1063, t. 28, f. 4, 1832. *De Kay, Nat. Hist. of New York*, 377, pl. 67, f. 219, pt. 1. *Zool.* 1842.

HAB.—Jamaica.

2. CERATOPTERA EHRENBERGII. Ehrenbergh Sea Devil.

Ceratoptera Ehrenberg*ii*, *Müll. & Henle, Plag.* 187. *Ehrenb. Symb. Phys. ined. Rüpp. Chondropt.* 11. *Müll. Myxin.* 311.

HAB.—Red Sea.

Doubtful Cephaloptera.

1. *Diabolus marinus*, *Nieuh. of Willoughby, Ichth. App.* t. 1, f. 3.
2. *Squalus edentatus*, *Brunnich*, 6, n. 14.
3. Devil, *Penn. Arct. Zool. Suppl.* 104.
4. Mobular, *Duhamel* (§ ix.), 293, t. 17.
5. Diable de Mer, *Le Gent. Voy.* i. 617, t. 3.
6. Sea-Devil, *Petiver, Gaz.* i. t. 54, f. 2.
7. Raia Mobular, *Schneid. Pompt. Leps.* 73, 90.

Section D. CYCLOSTOMIA.

Gills saccate; body elongate; pectoral and ventral-fins none.

Cyclostomia, *Rafn. Anal. Nat.* 94, 1815.

Cyclostomes, *Blainv. Bull. Soc. Phil.* 1816, 120. *Jour. de Phys.* 1816, 254.

Cyclostomata, *Müll. Abhandl. Akad. Wissensch. Berlin*, 1834, 65. *Mag. Zool. & Bot.* i. 406, 1836.

Sub-class 4. Marsipobranchii, *Bonap. Syst. Ichth.* 1838, 14.

Cyclostomi, Helminthoidei, Petromyzonidæ, *Bonap. Syst. Ichth.* 1838, 14.

Petromyzidæ, *Gray, Syn. B. M.* 1842, 148, 150.

Lampetræ, *Ray, Syn. Pisc.* 35.

Duméril (*Zoologie Analytique*, 8vo. 1806, p. 101) divides the *Cyclostomes* thus:—

1. *Petromyzon*, with seven branchial holes.
2. *Gastrobranchus*, with only two branchial holes.

Fam. 1. PETROMYZONIDÆ.

Nasal aperture closed, and the palate entirely covered with skin.

Lampredia, *Rafn. Anal. Nat.* 94, 1818.

Petromyzonidæ (Petromyzonini), *Bonap. Syst. Ichth.* 1838. *De Kay, Nat. Hist. of New York*, 379.

(Fam.) Hyperoartia, *Müll. Abhandl. Akad. Berlin*, 1836, 77. *Mag. Zool. & Bot.* i. 406.

Petromyzidæ, *Gray, Syn. B. M.* 1842, 148, 150.

Rafinesque names, but does not characterize, the genera *Lampreda* and *Pricus*, (*Anal. Nat.* 94, 1815).

Müller (*Abhandl. Akad. Berlin*) divided the genera thus:—

1. *Pteromyzon*, with visible teeth.
2. *Ammocætes*, without visible teeth.

SYNOPSIS OF GENERA.

a. Petromyzonina.—*Teeth distinct ; eyes visible.*

1. PETROMYZON.—Upper inner teeth two, conical, close together ; lower single, crescent-shaped ; labial teeth numerous, conical ; lingual teeth two, pinnate, t. 1, f. 1.

2. LAMPETRA. — Upper and lower teeth transverse, crescent-shaped ; labial teeth in two submarginal rows ; inner lateral teeth larger, two or three-lobed, lingual teeth pectinate, t. 1, f. 2.

3. GEOTRIA.—Upper and lower teeth transverse, crescent-shaped ; upper lobed ; labial teeth numerous, distant, acute, innermost largest ; lingual teeth elongate, conical, arched, t. 1, f. 3.

4. VELASIA.—Upper and lower teeth transverse, crescent-shaped ; upper two-lobed ; labial teeth numerous, crowded, truncate ; innermost largest ; lingual teeth elongate, arched.

5. CARAGOLA.—Upper internal teeth two, far apart, three-lobed ; lower crescent-shaped, nine-lobed ; labial teeth transverse, band-like, four tubercles ; lingual teeth flattened, t. 1, f. 5.

6. MORDACIA. — Upper inner teeth two ; lateral three-lobed ; lower nine, conical, in an arched series ; labial teeth conical, in a single sub-marginal series ; lingual teeth elongate, conical, arched, t. 1, f. 6.

b. Ammocætina.—*Teeth none ; eyes hidden.*

7. AMMOCÆTES.

a. Petromyzonina.—*Teeth distinct.*

1. PETROMYZON.

Upper inner teeth two, triangular, close together. Lower inner tooth single, large, crescent-shaped, many-toothed. Labial teeth conical, acute, numerous, in diverging, arched series ; the inner one largest, and gradually becoming smaller near the edge. Tongue with two compressed, pectinated teeth above, and a broad, lunate, dentated tooth beneath, which is strongly bent up between the upper teeth in the centre, t. 1, f. 1.

Yarr. Brit. Fish. fig. p. 603 (not good). *De Kay, Zool. New York,* t. 56, 216. (bad).

- Petromyzon, sp., *Linn. Syst. Nat.*; *Rafin. Anal. Nat.*; *Müll. Abhandl. Akad. Berlin*, 1834, 77. (1836).
 Petromyzon, *Gray, Proc. Zool. Soc.* 1851.

1. PETROMYZON MARINUS. The Lamprey.

- Petromyzon marinus*, *Linn. Bloch*, iii. pl. 77. *Linn. édit. de Gmelin, Faun. Suec.* 292. *Artedi, Ichth. gen.* 64, syn. 90. *Nau Schrift. der Berl. Naturf.* 7. 466. *Schneid. Bloch*, i. 530, 1801. *Penn. Brit. Zool.* iii. 102, pl. 10, 1776—78. *Shaw, Gen. Zool.* v. 251, pt. 2, pl. 133, 1804. *Don. Brit. Fish.* pl. 81, 1820—21. *Flem. Brit. An.* 163, sp. 1, 1827. *Cuv. Règ. An.* ii. 404, 1829. *Müll. Mém. de l'Acad. Berlin*, 1834, 78, t. 4, f. 1, 5. *Osteol.* t. 9, 65, 67, 68, f. 9. *Yarr. Brit. Fish.* 2 ed. ii. 598, 1841.
- Lamproie marbrée, *Daub. Encycl. Méth. Bonn. Planches d'Hist. Nat. de l'Enc. Méth.*
- Petromyzon maculosus*, *Artedi, Ichth. gen.* 64, syn. 90.
- Petromyzon lamproie*, *Bloch, Hist. Nat. Poiss.* 31, 77, pt. 13.
- Petromyzon maximus*, *Cuv. Règ. An.* ii. 118, 1817.
- Petromyzon*, *Klein, Misc. Pisc.* iii. f. 30, n. 3.
- Mustela sive lampetra*, *Belon. Aquat.* 76. *Salv. Aquat.* f. 62, b.
- Lampetra major*, *Schwenck. Theriotr. Siles.* f. 451. *Charlet, Onom.* f. 153, n. 3. *Aldrov.* 539, liv. 4, c. 13. *Jonston*, liv. 2, tit. 2, c. 3, pl. 24, f. 5.
- Lamproie, *Coms. Hist. Nat.* v. 284. *Fermin, Surin*, 85. *Rond.* 310, pt. 1, liv. 13. *Vatmont de Bomare, Dict. Hist. Nat.*
- Lampetra Rondeletii*, Lamprey or Lamprey-Eel, *Will. Ichth.* 105, pl. 2, f. 2, 1685. *Ray, Syn.* f. 35, n. 3.
- Ioatzma unagi*, *Kämpfer, Voy. au Japan*, i. pl. 12, f. 2.
- Il mustilla, *Forsk. Desc. Anim.* f. 18.
- Plota fluta*, *Authors.*
- Lampetra*, *lampreda kentmanni*, *lampreda marina*, *mustela*, *Gesu. (germ.)* 180, b. et paralip 22.
- Le *Pétromyzon Lamproire*, *La Cepede, Hist. Nat. Poiss.* i. 2, 3, pl. 1, 1798.
- La Grande Lamproye, *Cuv. Règ. An.* ii. 404, 1819.
- HAБ.—European Seas.
- a. Stuffed. Firth of Forth. From Dr. Parnell's collection.
- b. Stuffed. England.
- c. In spirits. Coast of Devonshire.

2. PETROMYZON JURÆ. MacCulloch's Lamprey.

Petromyzon Juræ, *MacCull. West. Isles*, ii. 186, 187, t. 29, f. 1.
Jen. B. V. A. 522.

Petromyzon fluviatilis, var., *Flem. Brit. An.* 162.

HAB.—Coast of Scotland, east shore. Island of Jura. On the Gray Gurnard. Specimen not preserved.

Probably a variety of *P. marinus*: the drawing of the teeth shows it has no relation to *P. fluviatilis*.

3. ? PETROMYZON AMERICANUS. American Sea Lamprey.

Petromyzon marinus, *Schæpff. Beobachtungen*, &c. viii. 184. *Mitch. Trans. Lit. & Phil. Soc.* i. 461.

Petromyzon americanus, *Lesueur, Amer. Phil. Soc. (N. S.)* i. 382.
Hist. N. A. Fish. ined. plate. Storer, Rep. on the Fishes of Massachusetts. De Kay, Nat. Hist. of New York, 379, pl. 66, f. 216, pt. 1. *Zool.* 1842.

HAB.—N. America, Albany, New York.

a. In spirits. North America. From Mr. Brandt's collection.

4. PETROMYZON NIGRICANS. Bluish Sea Lamprey.

Petromyzon nigricans, *Lesueur, Amer. Phil. Soc. (N. S.)* i. 385.
Storer, Rep. on the Fishes of Massachusetts. De Kay, Nat. Hist. of New York, 381, pl. 79, f. 247 (teeth indistinct), pt. 1. *Zool.* 1842.

HAB.—N. America.

5. PETROMYZON ARGENTEUS. Silvery Lamprey.

Petromyzon argenteus, *Kirtland, Boston Journ.* iii. 342, pl. 4, f. 3.
De Kay, Nat. Hist. of New York, 382, pt. 1. *Zool.* 1842.

HAB.—N. America, River Ohio.

2. LAMPETRA.

Upper inner tooth single, transversè, lunate, entire, with a conical prominence at each end. Lower inner tooth single, transverse, lunate, many-toothed, outer lobe largest. Labial teeth unequal, the outer numerous, small, subequal, conical, in a single, submarginal series, the inner larger, unequal; of the upper part small, in series; of the sides in a single series, larger, with two or three conical tubercles. Tongue with two compressed, pectinated teeth above, and a large, crescent-shaped, transverse, tooth below, crenated on the edge, and with a larger, conical projection in the centre, t. 1, f. 2. *Yarr. Brit. Fish.* fig. p. 604. *De Kay, Nat. Hist. of New York*, t. 79, 249 (bad).

Petromyzon, sp., *Linn., Cuv., Müll.*

Lampetra, sp., *Ray.*

Lampetra, *Gray, Proc. Zool. Soc.* 1851.

* *Dorsal fins separate.*

1. LAMPETRA FLUVIATILIS. Lampern or River Lamprey.

Petromyzon fluviatilis, *Linn. Bloch*, pt. 3, pl. 78, f. 1, *Linn. edit. de Gmelin. Müll. Prod.* 37, n. 307. *Aldrov.* 587. *Penn. Brit. Zool.* v. pt. 106, pl. 10, 1776—78. *Schneid. Bloch*, 530, 2, 1801. *Shaw, Gen. Zool.* v. 257, pt. 2, 1804. *Don. Brit. Fish.* pl. 80, 1820—28. *Flem. Brit. An.* 404, 1827. *Cuv. Règ. An.* ii, 404, 1829. *Mém. de l'Acad. Berlin*, 78, 1834. *Jen. Man. Brit. Vert.* 521, sp. 210, 1835. *Yarr. Brit. Fish.* 2 ed. ii. 598, 1841. *Parnell. Rich. Faun. Bor.* 294, 1836.

Petromyzon fluviatilis, *Cuv. Règ. An.* ii. 118, 1817.

Lamproie prycka, *Daub. Encycl. Méth.*

Nein-oga natting, *Faun. Suec.* 106.

Petromyzon, &c., *Artdi*, gen. 64, syn. 89, sp. 99.

La petite lamproie, *Bloch*, 34, pt. 3, pl. 78, f. 1.

La lamproie branchiale, *Bonn. Planches de l'Encycl. Méth.*

Petromyzon, prick (negen-oog), *Gronov. Mus.* i. 64, n. 114. *Zooph.* 38.

Mustela, *Pliny*, liv. 9, c. 17.

Mustela fluviatilis, *Belon, Aquat.* 75.

Lampetra subcinerea, maculis carens, *Salv. Aquat.* 62.

Lampetra, alterum genus, *Gesn. Aquat.* 597.

- Lampreda, *Icon. Anim.* 326.
 Lampetra, medium genus, *Will. Ichth.* 106, tab. g. 2, 3, f. 1, 2
Ray, Syn. Pisc. 25, n. 1.
 Lampetra fluviatilis, *Aldrov.* 587. *Jonston*, 104, pl. 28, f. 11.
Schone, 41. *Charlet*, 159, n. 7. *Marseli, Dan. Pann.* iv. 2, t.
 1, 1726.
 Lampetra fluviatilis, media, *Schwenck. Theriotr. Siles.* 532.
 Jaatz me nnagi, *Kämpfer, Voy. dans le Japon*, i. 156, pl. 12, f. 2.
Minog, Rzeczyński, 134.
 Lamproie, *Fermin, Hist. Nat. de Surinam*, 85.
 Petromyzon, *Kramer, Elenchus*, 38, n. 1. *Klein, Misc. Pisc.* iii.
 29, n. 1, t. 1, f. 3.
 Le Petromyzon pricka, *La Cepede, Hist. Nat. des Poiss.* i. 18,
 1798.
 HAB.—Europe.
 a. In spirits. Thames. Presented by Mr. J. Doubleday.
 b, c. In spirits.
 d. In spirits.
 e. In spirits. Devonshire. Mus. Leach.
 f. ———?

2. LAMPETRA PLANERI. Fringed-lipped Lampern.

- Petromyzon planeri, *Linn. Bloch*, viii pl. 78, f. 3. *Linn. edit. de
 Gmelin. Schneid. Bloch*, 531, 532, 4, 1801. *Shaw, Gen.
 Zool.* v. pt. 2, p. 259, 1804. *Jen. Man. Brit. Vert.* 522, sp.
 211, 1835. *Müll. Mem. de l'Acad. Berlin*, 78, 1834. *Cuv.*
 • *Rég. An.* ii. 404, 1829. *Yarr. Brit. Fish.* 2 ed. ii. 607, 1841.
 Lamproiea planer, *Bonn. Planches de l'Encycl. Meth.*
 Le Petromyzon planer, *La Cepede, Hist. Nat. des Poiss.* i. 30, pl. 3,
 1798.
 HAB.—Europe.
 a. In spirits. Firth of Forth. From Dr. Parnell's collection.
 b. In spirits. Devonshire.

** *Dorsal-fin in contact with the second.*

3. PETROMYZON SANGUISUGA. Leech Lamprey.

- Petromyzon Sanguisuga, *La Cepede, Hist. Nat. des Poiss.* ii. 99, pl.
 1. *Supp. to Petromyzon.* *Shaw, Gen. Zool.* v. pt. 2, p. 261,
 1804.

Petromyzon planeri, var. *Cuv. Règ. An. ii. 118.*

HAB.—Europe, Seine.

A very doubtful species; Cuvier says it is the same as the former.

4. LAMPETRA LAMOTTENII. American Lampfern.

Petromyzon Lamottenii, *Lesueur, Hist. N. A. De Kay, Nat. Hist. of New York*, 382, pl. 79, f. 249 (mouth), pt. 1. *Zool.* 1842.

HAB.—N. America, New York.

a. ? In spirits. North America. From the Paris Museum. *P. fluviatilis*, *Mus. Paris.*

3. GEOTRIA.

Upper internal tooth large, transverse, crescent-like, divided into four lobes; the two inner lobes small, acute; outer truncated. The lower internal tooth transverse, narrow, slightly sinuous. The labial teeth numerous, far apart, conical, acute, in arched series, diverging from the throat; the innermost one larger, rest small; the innermost one of the lower part on each side, small, elongate, transverse, with two small, rudimentary tubercles. Tongue with two elongate, conical, arched teeth, with a triangular plate on the lower side of the base. Throat with a very large dilatable pouch, t. 1, f. 3. Dorsal-fins two, far apart. Mouth very large, surrounded with rather large, transverse, torn leaves.

This genus chiefly differs from *Velasia* in the rudimentary state of the lower internal tooth, and in the form of the labial teeth, and in the large size of the oral disk, and the extraordinary development of the throat-pouch, which is found in a rudimentary state in the *Petromyzon marinus*. This development of the pouch, is perhaps to adapt the animal to the long drought of the Australian rivers.

1. GEOTRIA AUSTRALIS. Pouched Lamprey. *Tab. 2.*

Geotria australis, *Gray, Proc. Zool. Soc.* 1851.

HAB.—South Australia. Fresh-water.

a. In spirits. River Inkar pinki, South Australia. Presented by R. A. Pain, Esq.

4. VELASIA.

Upper internal teeth large, transverse, crescent-like, divided into four flat, elongated lobes; the outer lobes largest. The lower internal teeth large, transverse, crescent-like, convex, denticulated on the edge. The labial teeth very numerous, truncated, in crowded, arched series, diverging from the throat; the inner ones large, and gradually diminishing in size to the edge. Tongue with two very large, long, curved teeth, with a triangular plate beneath at their base, t. 1, f. 4. Dorsal-fins two, far apart. Mouth moderate, edged with transverse foliations.

Velasia, Gray, *Proc. Zool. Soc.* 1851.

1. VELASIA CHILENSIS. Chilian Lampern.

HAB.—Chili. In fresh-water.

a. In spirits. Chili. Fresh-water.

5. CARAGOLA.

Upper inner teeth, two, large, separate, lateral, submarginal, each with three acute tubercles. Lower inner teeth large, crescent-shaped, nine-lobed; the central and two lateral lobes on each side larger. The labial teeth in a subcircular, submarginal series, large, transverse, band-like, with three or four tubercles. Tongue with two flattened teeth, and a triangular, transverse plate below, with an acute process between the teeth on the upper edge, t. 1, f. 5. Dorsal-fins two, far apart.

Caragola, Gray, *Proc. Zool. Soc.* 1851.

1. CARAGOLA LAPICIDA. Caragol.

Silvery.

HAB.—West Coast of America.

a. In spirits. Bay of Valparaiso.

6. MORDACIA.

Upper inner teeth two, separate, lateral, subtrigonal, each with three tubercles. The lower nine, conical, acute, in an arched series; the five central smaller. Labial teeth small, conical, in a

single, circular, submarginal series, with a single, additional, odd tooth in the centre above. Tongue with two conical, arched teeth. *Rich. Voy. Erebus & Terror*, t. 38, cop. t. 1, f. 6.

Mordacia, Gray, *Proc. Zool. Soc.* 1851.

Petromyzon, sp., *Rich. Voy. Erebus & Terror*, t. 38, 1845.

1. MORDACIA MORDAX. Australian Lampfern.

Petromyzon mordax, *Rich. Voy. Erebus & Terror*, t. 38, 1845.

Mordacia mordax, Gray, *Proc. Zool. Soc.* 1851.

HAB.—Tasmania. Mus. Haslar Hospital.

Species of Doubtful Situation in the Tribe.

1. PETROMYZON APPENDIX. Small Lamprey.

Petromyzon appendix, *De Kay, Nat. Hist. of New York*, 381, pl. 64, f. 211, pt. 1. *Zool.* 1842.

HAB.—N. America, Hudson River.

“A ring of irregular shaped corneous processes within the oral orifice, and a large isolated double tooth of the same texture on the inferior portion of the mouth.” *De Kay*.

2. PETROMYZON TRIDENTATUS. Tridentate Lamprey.

Petromyzon tridentatus, *Gairdner, Rich. Faun. Bor. Amer.* 293, 1836. *De Kay, Nat. Hist. of New York*, 381, pt. 1. *Zool.* 1842.

HAB.—N. America. Falls of the Walamet.

3. PETROMYZON ARGENTEUS. Silvery Lamprey.

Petromyzon argenteus, *Bloch*, t. 415, f. 2. *Schneid. Bloch*, 532, t. 102, f. 1, 1801. *Shaw, Gen. Zool.* v. pt. 2, p. 262, 1841.

HAB.—Indian Seas.

4. PETROMYZON BICOLOR. Brilliant Lamprey.

Petromyzon bicolor, *Shaw, Gen. Zool.* v. pt. 2, p. 263, 1804.

Petromyzon niger, *La Cepede*, iv. 667.

HAB.—Europe, Seine.

5. PETROMYZON PLUMBEUS. Leaden Lamprey.

Petromyzon plumbeus, *Shaw, Gen. Zool.* v. pt. 2, p. 263, 1804.

Petromyzon Septœil, *La Cepede*, iv. 667.

HAB.—Europe, Seine.

b. *Ammocœtina*.—Teeth none ; eyes none.

7. AMMOCÆTES.

Teeth none.

Ammocœtes, *Dum. Zool. Anal. Cuv. Règ. An.* ii. 118, 1817.

Müll. Abhandl. Akad. Berlin, 1834, 78. (1836).

? *Lampreda*, *Rafin. Anal. Nat.* 94, 1815.

1. AMMOCÆTES BRANCHIALIS. Pride or Sandpiper.

Ammocœtes branchialis, *Dum. Flem. Brit. An.* 164, sp. 3, 1828.

Cuv. Règ. An. 406, 1829. *Müll. Mém. de l'Acad. Berlin*,

1834. *Jen. Man. Brit. Vert.* 522, sp. 212, 1835. *Yarr.*

Brit. Fish. 2 ed. ii. 609, 1841.

Petromyzon branchialis, *Linn. édit. de Gmelin*, 1815. *Bloch*, pt. 3,

pl. 78? f. 2. *Linn. Faun. Suec.* 292. *Wulff. Ichth. Borus.* 15,

n. 20. *Müll. Prod. Zool. Dan.* 37, n. 307, b. *Kramer, Elench.*

483. *Penn. Brit. Zool.* iii. 107, pl. 10, 1776—78. *Shaw,*

Gen. Zool. 260, 1804.

Petromyzon corpore annuloso, &c., *Artedi*, gen. 42, syn. 90.

Lamproie branchiale, *Bonn. Planches de l'Encycl. Daub. Encycl.*

Méth.

Petromyzon, *Gronov. Zooph.* 38, n. 160. *Klein, Misc. Pisc.* iii. 30,

n. 4.

Petromyzon cœcus, *Couch, Mag. Nat. Hist.* v. 23, f. 60.

Mustela fluviatilis, *Gesner, Aquat.* 589. *Icon. Anim.* 286. *Thierb.*

159, b.

Lampetra minima, *Aldrov.* 539.

Lampern, or Pride of the Isis, *Will. Ichth.* 104.

Pride, *Plot, Hist. of Oxford.* 182, t. 10.

Lampetra cœca, *Will. Ichth.* tab. g. 3, f. 1. *Ray, Syn. Pisc.* 35, n.

2, 4. *Couch, Loudon's Mag. Nat. Hist.* v. 23, f. 9—10.

Lampetra neunange, *Jonston*, t. 28, f. 10.

Lamproyon et lamprillou, *Rond. Hist. Poiss.* ii. 202.

Querder, schlamquerder, *Schwenckf. Theriotr. Siles.* 423.

Der Kierferwurn, *Müll. l. c.* iii. 234.

Lampreyon, *Valmont de Bomare, Dict. Hist. Nat.*

Le Petromyzon lampreyon, *La Cepede, Hist. Nat. des Poiss.* i. 26, pl. 2, f. 1, 1798.

HAB.—Europe. Rivers.

a. In spirits. Sardinia. Presented by Professor Bonelli.

b. In spirits. Eton. Mus. Leach.

c. In spirits. Young. River Annan. From Dr. Parnell's collection.

2. AMMOCÆTES RUBER. Red Lamprey.

Ammocætes ruber, *Cuv. Règ. An.* 406, 1829. *Müll. Mém. de l'Acad. Berl.* 78, 1834.

Petromyzon ruber, *La Cepede, Hist. Nat. des Poiss.* ii. 99, pl. 1. *Supp. to Petromyzon.* *Shaw, Gen. Zool.* v. pt. 2, p. 261. 1804.

Ammocætes branchialis, var., *Cuv. Règ. An.* ii. 118, 1817.

HAB.—Europe, Seine.

3. AMMOCÆTES CONCOLOR. Mud Eel or Blind Eel.

Ammocætes concolor, *Kirtland, Boston Journ.* iii. 473, pl. 27, f. 1, a, b., 1841.

HAB.—N. America, Mahoning and Scioto Rivers.

4. AMMOCÆTES BICOLOR. Coloured Mud Lamprey.

Ammocætes bicolor, *Lesueur, Amer. Phil. Soc. (N. S.)* i. 386.

Ammocætes bicolor, *Storer, Fishes of Massachusetts*, 198. *De Kay, Nat. Hist. of New York*, 383, 679, f. 248, pt. 1. *Zool.* 1842.

HAB.—N. America, Connecticut River.

5. AMMOCÆTES UNICOLOR. Plain Mud Lamprey.

Ammocætes unicolor, *De Kay, Nat. Hist. of New York*, 383, pl. 79, f. 250, pt. 1. *Zool.* 1842.

HAB.—N. America, Lake Champlain.

Fam. 2. MYXINIDÆ.

Palate perforated.

Myxinia, Rafin. *Anal. Nat.* 94, 1815.

Petromyzonidæ (Gastrobranchini), Bonap. *Syst. Ichth.* 1838, 14.

Cyclostomata hyperotreta seu Myxinoidea, Müll. *Abhandl. Akad. Berlin*, 1834, 78. (1836).

Petromyzidæ, β., Gray, *Syn. B. M.* 1842, 148, 150.

SYNOPSIS OF GENERA.

1. MYXINE.—Branchial spiracles connected externally.
2. BDELLOSTOMA.—Branchial spiracles separated externally.

1. MYXINE.

Branchial spiracles connected externally.

Myxine, Linn. *Syst. Nat.* Gunner, *Drontheim Gesell. Schrift.* ii. 230, t. 5. Rafin. *Anal. Nat.* 94, 1815. Cuv. *Rég. An.* ii. 118, 1817. Müll. *Abhandl. Akad. Berlin*, 1834, 79.

Gastrobranchus, Bloch.

Petromyzon, sp., Walb. *Artedi*, ii. 500.

Myxine was arranged with the Vermes by Linneus. It was first removed to the fish by Retzius (*Nov. Act. Reg. Acad. Svec.* 179. *Anim. Pisc.* 17, 1800. *Berlin, Schrift. Nat. I. T.* xii. 193, 244. *Bloch, Ausland Fische*, ix. 67.

1. MYXINE GLUTINOSA. The Myxine.

Myxine glutinosa, Linn. *Syst. Nat.* Mus. Reg. Adolph. Fred. t. 4, f. 11, t. 9, f. 3. Müll. *Prod. Zool. Dan.* 227. *Schrift. der Berl. Gesselsch. Naturf.* 10, 193, 244, t. 4. *Flem. Brit. An. Vert.* 523, sp. 213, 1828. Müll. *Mém. de l'Acad. Berlin*, 1834, 79, 336, t. 2, 3, f. 8, 9. tab. ix. *Jen. Brit. An. Vert.* 523, 213, 1835. (Sleep Marten), Gunner, *Drontheim Gesell. Schrift.* ii. 230, t. 3.

Gastrobranchus cæcus, *Bloch*, pt. 12, 413. *Penn. Brit. Zool.* iii. 109, 1776→78. *Shaw, Gen. Zool.* ii. 264, pt. 2, pl. 134, 1804. *Cuv. Règ. An.* 2 ed. ii. 406, 1829. *Yarr. Brit. Fish.* 2 ed. ii. 612, 1841.

Lampetra cæca, *Will. Ichth. Kalm, North America*, 145.

Petromyzon Myxine, *Walb. Artedi*, ii. 500.

HAB.—Europe.

a. Stuffed. Firth of Forth. From Dr. Parnell's collection.

b. In spirits. Yorkshire. Presented by the Rev. J. Dalton.

c. In spirits. Norway. Presented by — Woodfall, Esq.

1. BDELLOSTOMA.

Branchial spiracles separated externally.

Gastrobranchus, *Bloch. Rafn. Anal. Nat.* 94, 1815.

Bdellostoma, *Müll. Abhandl. Akad. Berlin*, 1834, 79, 1836, 1841, 111, 1844.

Heptatrema, *Dum. Zool. Anal. Cuv. Règ. An.* ii. 40.

* *With six apertures on each side.*

1. BDELLOSTOMA HEXATREMA.

Bdellostoma hexatrema, *Müll. Mém. de l'Acad. Berlin*, 79, 1834.

HAB.—South Seas.

** *With six openings on the right, and seven on the left side.*

2. BDELLOSTOMA HETEROTREMA.

Bdellostoma heterotrema, *Müll. Mém. de l'Acad. Berlin*, 1834, 79, t. 1, 6, 7, 8. *Anat.* t. 3, 9, f. 1, 4, 7.

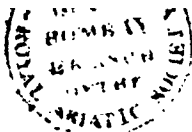
HAB.—South Seas.

*** *With seven apertures on each side.*

3. BDELLOSTOMA HEPTATREMA.

Bdellostoma heptatrema, *Müll. Mém. de l'Acad. Berlin*, 79, 1834. *Fish, Home, Phil. Trans.* t. 12, f. 1, 258, 263, 1815.

HAB.—South Seas.



4. BDELLOSTOMA FORSTERII.

Bdellostoma Forsterii, Müll. *Mém. de l'Acad. Berlin*, 80, 1834.

Petromyzon cirrhatus, Forst. Bloch, *Syst. Ichth. Schneid. Bloch*, 552, 1801.

Heptatremes cirrhatus, Cuv. *Règ. An.* 2 ed. ii. 405, 1829.

HAB.—New Zealand.

**** *Doubtful Species.*

5. BDELLOSTOMA DOMBEYII.

Bdellostoma Dombeyii, Müll. *Mém. de l'Acad. Berlin*, 80, 1834.

Le Gastrobanche, Dombey, *La Cepede, Hist. Nat. des Poiss.* i. 531, pl. 23, 1798.

Heptatremes Dombeyii, Cuv. *Règ. An.* ii. 405, 1829.

HAB.—Chili.

Fam. 3. AMPHIOXIDÆ.

Amphioxidæ, Gray, *Syn. B. M.* 1842, 150.

Condropteringi a branchie esterne, Costa, 1834.

1. BRANCHIOSTOMA.

Branchiostoma, Costa, *Fauna Regno Napoli*, 1832, 1836, 1, t. 30. *Annuario Zoologica, per l'Anno 1834—49.* Müll. *Abhandl. Akad. Berlin*, 1841, 79. (1844). *Monat. Bericht. Akad. Berlin*, 1842.

Amphioxus, Gray, in *Yarr. Brit. Fish.* 468, 1836. *Sundev. & Louen, Forsch. Skand. Naturf.* 1838. *Kjövenh.* 1841, 280. *Retzius, Monat. Bericht. Akad. Berlin*, 1839. *Goodsir, Ann. Nat. Hist.* vii. 346, 1841. *Trans. Roy. Soc. Edin.* xvi. 1. 1841. (*Anat.*).

Limax, sp., *Pall. Spic. Zool.* x. 19, t. 1, f. 11.

1. BRANCHIOSTOMA LUBRICUM.

Brachystoma lubricus, Costa, *Cenni Zoologici*, 49, 1834, 12mo. *Napoli*.

Branchostoma lubricum, Costa, *Fauna Regno Napoli*, i. t. 30, 1832, 1836, (1839, fide Müller). *Müll. Abhandl. Akad. Berl.* 1841, 79, t. 1—5, 1844. *Monat. Bericht. Akad. Berl.* 1842.

HAB.—Mediterranean.

a—e. In spirits. Naples. Presented by Professor Kolliker.

2. BRANCHIOSTOMA LANCEOLATUM. Lancelet.

Amphioxus lanceolatus, Couch, *Mag. Nat. Hist.* 1838, *Cornwall Fauna*, 54. *Yarr. Brit. Fish.* 2 ed. ii. 618, 1841.

Limax lanceolatus, *Pall. Spic. Zool.* x. 19, t. 1, f. 2.

HAB.—S.-W. Coast of England.

a. In spirits. Polperro. Presented by J. Couch, Esq.

3. BRANCHIOSTOMA BELCHERI.

Amphioxus Belcheri, Gray, *Proc. Zool. Soc.* 1847, 355.

HAB.—Indian Ocean.

a. In spirits. Borneo. Presented by Capt. Sir Edward Belcher, R.N., K.C.B., &c.

ADDITIONS AND CORRECTIONS.

Page 1,

After Pisces Chondropterygii, add Artedi, Gen. 64, 1738.

Page 3,

After Gills free, add as in other fish, covered with an operculum, with a single opening, but without any rays in the membrane, and add
Eleutheropomes, Dum. Zool. Anal. 185, 1806.

Page 9, add

9.* ACIPENSER CARBONARIUS. The Black Sturgeon.
 Acipenser carbonarius, *Agassiz, Lake Superior*, t. 5.
 HAB.—N. America, Lake Superior.

Page 13,

For 12. ACIPENSER ATILLUS, read ACIPENSER STURIO.

Page 22, after

Section C. PLAGIOSTOMIA,

Add Gills pectinate ; pectoral and ventral-fins distinct. Body flattened.

Page 37,

2. NEBRIUS CIRRATUM, *add*
d. Stuffed, adult. West Indies. From the Zoological Society.

Page 44,

1. SQUALUS GLAUCUS, *add*

g. Stuffed. Gibraltar. From the Zoological Society.

Page 45, *add*

4.* SQUALUS (CARCHARINUS) OBVELATUS. The Veiled Shark.
Prionodon obvelatus, *Valenc. in Webb, Berth. Canar. Weigmann,*
Arch. ii. 201, 1845.

HAB.—Canaries.

Page 46,

10. SQUALUS LEUCAS, *add*

a. Stuffed. Presented by the Lords of the Admiralty. From the Antarctic Expedition.

Page 47,

17. SQUALUS MENISORRAH, *add*

b. Stuffed. Cape of Good Hope. From Dr. Andrew Smith's collection. In the Zoological Society.

Page 48,

20. SQUALUS TEMMINGKII, *add*

Carcharias Yarellii, *Müll. & Henle, MSS. Cat. Zool. Soc. ii. 662.*

b. Stuffed. From the collection of the Zoological Society.

c. Yarellii, *Müll. & Henle, MSS.*

Page 58,

1. MUSTELUS VULGARIS,

Erase the reference to Mustelus equestris, and add

1.* MUSTELUS EQUESTRIS. The Mediterranean Hound-fish.
Mustelus equestris, *Bonap. Faun. Ital. t.*

HAB.—Mediterranean.

Page 62,

Erase Rineodon, Smith, Mag. Nat. Hist. 5, 1838?

Page 80, add

1.* SQUATINA OCLATA.

Squatina oculata, Bonap. Faun. Ital. t.

Page 101,

TORPEDO MARMORATA, add

Lophius monopterygius, Shaw, Nat. Misc. t. 202, 203 (badly stuffed).

5. TORPEDO TREFIDANA.

Torpedo trepidana, Valenc. in Webb, Berth. Canar. t.

HAB.—Canaries.

Page 102, after NARCINE, add

2.* DISCOPYGE.

Body discoidal. Disk orbicular. Mouth transverse, furnished near the angles with thickened lips; jaw with a dental plate in the middle, inflected on the outside; the smallest teeth arranged in a quincunx. Teeth flat, rhomboidal, with the posterior angle sharp. Velum behind the upper and lower jaw. Nasal-valve truncated, furnished in the middle with a sinuated process, connected beneath with the circular fold of the mouth by a frenulum. Spiracles adjacent to the eyes, with a naked margin. Ventral-fins connected below the tail. Dorsal-fins two, equal. Caudal-fins obliquely oval.

Discopyge, Heckle, MSS. Tschudi, Faun. Peruv. Erichson, Arch. Naturg. 367, 1847.

1. DISCOPYGE TSCHUDII.

Discopyge Tschudii, Heckle, l. c.

HAB.—Peru.

Page 105, line 12,

For Propleysia, read Propterygia.

Page 108, add

8*. **RAJA BRAMANTE.**

Lævoraga bramante, Sassi, Nuovi Anal. Scienze Nat. Bologna, vi.
1846, 386.

HAB.—Mediterranean.

Page 118,

Trigon pastinaca, add Bonap. Faun. Ital. t.

Page 119,

Trigon Brucco, add Bonap. Faun. Ital. t.

Page 121,

For Uroxis rigo, read Uroxis Ujo.

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L I S T

OF THE

OSTEOLOGICAL SPECIMENS

IN

THE COLLECTION

OF THE

BRITISH MUSEUM.

PRINTED BY ORDER OF THE TRUSTEES.
LONDON, 1847.

LONDON :
PRINTED BY E NEWMAN, DEVONSHIRE STREET,
BISHOPSGATE 17

P R E F A C E .

THE Osteological specimens which were formerly contained in the British Museum were transferred to the College of Surgeons shortly after the Government purchased the Hunterian Museum and the establishment of that collection.

My predecessor, friend, and first teacher in Zoology, Dr. W. E. Leach, collected and exhibited the skulls, sterna, and trachææ of some British Mammalia and Birds, and also the skulls of a few exotic Bats, which he described in the 'Linnean Transactions,' for the purpose of showing the characters of the genera and species. Since he left the Museum, a few skeletons and skulls, which have been kindly presented by various donors, have been added to the collection. About two years ago, when Mr. B. H. Hodgson returned from Nepal with his very extensive collection of Indian animals, he offered them to the Museum, on condition that the Osteological specimens should be received with the skins, &c.

•

These specimens, with the others before referred to, form the nucleus of the present collection, which have been increased by,

A large collection of the skulls and sterna of British Mammalia and Birds, presented by John Ray, Esq., of Epping, and other British specimens, presented by Lord Willoughby D'Eresby, H. Doubleday, Esq., Rev. C. Bury, J. S. Bowerbank, Esq., J. P. Selby, Esq., Mr. Baker, and Mr. E. Gerrard.

The skeleton of *Bison Urus*, from Lithuania, presented by the Emperor of Russia.

The skulls and skeletons of animals from Northern Europe and North America, presented by the Earl of Selkirk, Sir Thomas Maryon Wilson, Bart., the Hudson's Bay Company, R. King, Esq., J. Gould, Esq., Capt. Sir Edward Belcher, R.N., C. Pentland, Esq., Capt. Sir John Franklin, R.N., Edward Cayley, Esq.

Some skulls from Xanthus, presented by Sir Charles Fellows, and G. Scharf, Jun., Esq.

Skulls and skeletons of African animals, presented by the Earl of Derby, J. Burton, Esq., Dr. Christie, Dr. John Lee, Sir J. Gardiner Wilkinson, Dr. W. Burchell, Captain Clapperton, R.N., Major Denham, and T. Thompson, Esq.

Skeletons and skulls of South American animals, presented by Reginald Graham, Esq., J. P. G. Smith, Esq., J. Wright, Esq., and J. Mjers, Esq.

Skeletons and skulls of Seals and Cetacea, collected during the Antarctic Expedition, presented by the Lords of the

Admiralty, Captain Sir James Ross, R.N., Lieutenant Alexander Smith, R.N.

Skeletons and skulls from India, China, and Borneo, presented by B. H. Hodgson, Esq., General T. Hardwicke, Walter Elliott, Esq., Gibson Rowe, Esq., Jacob Bell, Esq., the East India Company, Major Honeywood, John Reeves, Esq., J. Russell Reeves, Esq., Col. Sykes, H. Lacon, Esq., A. Charlton, Esq., S. Sotheby, Esq., T. Ingall, Esq., R. Ewing, Esq., H. Falconer, M.D.

Skulls and skeletons from Australia, New Zealand, &c., presented by the Earl of Derby, Dr. Frederick Knox, Capt. Stokes, R.N., Capt. P. P. King, R.N., Capt. W. Chambers, R.N., J. B. Jukes, Esq., Allan Cunningham, Esq., Capt. George Grey, Sir John Richardson, M.D. and C. D. Fortnum, Esq.

Specimens have also been purchased from the Leyden Museum of the animals found in the Dutch Colonial possessions, as Java, Amboina, &c.

From the Stockholm Museum, of the animals collected by Dr. Wahlberg at the Cape of Good Hope.

From Mr. Gould and Mr. Bridges, of the specimens collected by them during their visits to Australia, Chili, and Bolivia.

From Dr. Moller and Professor Eschricht and the Copenhagen Museum, of Seals and Cetacea from Greenland.

The collection has been made primarily with the view of illustrating the characters of the orders, genera, and species of the specimens of the recent vertebrated animals contained in the British Museum collection, and with this

view they are arranged in the same systematic order; and secondly, to furnish the palæontologist with the means of determining the systematic position of the genera and species of extinct Vertebrata.

For the purpose of showing the disposition of the bones in the different classes and orders, a few examples of each have been mounted, and for the purpose of illustrating the genera and specimens in the collection, and facilitating their comparison, a series of the skulls have been arranged on separate tablets. The bones of the greater number of the skeletons are kept separate in boxes, to admit of the various bones of the different recent species being compared together, and with their fossil analogues, which cannot so easily and completely be accomplished when they are mounted, especially if the leg-bones are pierced, as is the common English practice, for part of the articulating surfaces must then be removed to make room for the iron supports.

To prevent the bones being mis-matched, each bone of each specimen is marked with the number of the species and specimen used in the Catalogue.

The greater part of the specimens have been cleaned and mounted by Mr. Edward Gerrard, who has devoted much care to the preservation of the more minute parts.

The great value of a collection of this kind depending on the accuracy with which the specimens are determined, every attention has been given to this subject; and it is hoped that in this particular, the present collection has many advantages over those not so lately formed, for the greater part of the specimens presented have been received direct from the person who prepared them, and often when the bones, part of the skull, and skins were still adhering

together, and those purchased have been almost all procured from collections received direct from their native habitats, and from persons whose authority gives additional importance to the specimens; and a large proportion of the skulls, &c. have been extracted from the skins which form part of the zoological series in the Museum collection; these skulls are marked with an asterisk (*), and the skulls and specimens are marked with the same MS. number.

To give some idea of the extent of the collection, the following table, exhibiting the number of specimens and species contained in different European collections is added.

	Mammalia.		Birds.		Reptiles.		Fishes.	
	Specimens.	Species.	Specimens.	Species.	Specimens.	Species.	Specimens.	Species.
British Museum	1766	742	961	523	309	137	59	33
Paris Collection	3178	636	1358	493	572	261	649	742
Leyden Collection	1000		500		200		300	
Coll. of Surgeons	1055	249	247	158	157	49	336	82

The number given for the College of Surgeons is taken from the Catalogue published in 1831; of the Paris Museum from the account of the collection published in the 'Nouvelles Annales du Museum' for 1833; and of the Leyden collection from notes communicated by M. Schlegel in 1836. The last published estimate of each collection.

The Museum is most imperfect as regards fishes and reptiles, but it is to be hoped this will shortly be remedied.

JOHN EDWARD GRAY.

British Museum,

Feb. 12th, 1847.

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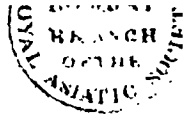
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LIST

OF

OSTEOLOGICAL SPECIMENS.

Class. MAMMALIA.

Order I. PRIMATES.

Fam. 1. HOMINIDÆ.

HOMO, *Linn.*

- MAN. *Homo sapiens*, *Linn. S. N. i. 28.*
Skulls of Hillmen, probably Cishemilayan or Thibetan, procured at Symbunath, in the valley of Nepal.
Skulls of Hillmen, probably of the Newar tribe, procured at Sankhmol, in the valley of Nepal.
Skull of a man and woman of the tribe of Newars, called Jyapoo, from Nepal proper.
Skulls of men of the tribe of Newar called Bandy, executed for forgery in Nepal proper.
Skulls of Hillmen, tribe unknown, from the banks of the Bag-nath, in Nepal proper.
Skulls of man and boy, natives of the plains, procured on the Ganges.
Skull. Australia. Presented by Captain Stokes, R.N.
Skull. Greenland.
Skull. Ceylon. Presented by Dr. Davy.
Skull (Negro). Africa.

B

Fam. 2. SIMIADÆ.

TROGLodyTES, *Geoff.*

The CHIMPANZEE. *Troglodytes niger*.
Skeleton. Western Africa.

SIMIA, *Linn.*

The OURAN OUTAN. *Simia Satyrus*.
Skeleton, adult. Borneo. Presented by H. Brooks, Esq.
Skeleton, adult. Borneo. Presented by H. Brooks, Esq.
Skeleton, adult. Borneo. Presented by H. Brooks, Esq.
Skull, adult.
Skull, young. Borneo.
Skull, young. Borneo.

SIAMANGA, *Gray.*

The SIAMANG. *Siamanga Syndactyla*.
Skeleton. Sumatra. Presented by G. Bennett, Esq.

HYLOBATES, *Illiger.*

The SILVERY GIBBON, or WOU-WOU. *Hylobates leuciscus*.
Skull. Java.

NASALIS, *Geoff.*

The PROBOSCIS MONKEY. *Nasalis larvatus*.
Skull. Borneo. Presented by Captain Sir Edward Belcher, R.N.

PRESBYTES, *Eschsch.*

The CHINGKAU. *Presbytes cristata*.
Skull. Java.

DUSKY PRESBYTES. *Presbytes obscura*.
Skull. Singapore?

The NEGRO MONKEY. *Presbytes maura*.
* Skull.

HOODED PRESBYTES. *Presbytes Johnii*.
* Skull. Neilgherries.

The CRESTED PRESBYTES. *Presbytes mitrat*.
* Skull. Java.

The CINEREOUS PRESBYTES. *Presbytes cinerea*.
* Skull. Malacca.

The LANGUR. *Presbytes entellus*.
Skull of an adult. Nepal. Presented by B. H. Hodgson, Esq.
Skull of a middle-aged specimen. Nepal. Presented by B. H. Hodgson, Esq.

- Bones of body and limbs. Nepal. Presented by B. H. Hodgson, Esq.
 Bones of body. Nepal. Presented by B. H. Hodgson, Esq.
 Skull, half grown. Nepal. Presented by B. H. Hodgson, Esq.
 Skull, young. Sumatra. Presented by B. H. Hodgson, Esq.
 Teeth, adult. Nepal. Presented by B. H. Hodgson, Esq.

CERCOPITHECUS, Buffon.

- The SAMANGO. *Cercopithecus samango*.
 * Skull. South Africa. From the Stockholm Museum.
 The RED MONKEY. *Cercopithecus ruber*.
 Skull. Western Africa.
 MONKEY. *Cercopithecus* — ?
 Skull, — ? From Dr. Mantell's collection.
 The WHITE-THROATED MONKEY. *Cercopithecus albobularis*.
 * Skull. India.
 The GRIVET or TOTA. *Cercopithecus enyithia*.
 * Skull. South Africa.
 MALBROUCK MONKEY. *Cercopithecus cynosurus*.
 * Skull. India. Presented by Edward Cross, Esq.
 * Skull. India.
 CALLITHRIX. *Cercopithecus sabæus*.
 * Skull. West Africa.
 MONKEY. *Cercopithecus* — ?
 Skeleton. Africa.
 The MONA. *Cercopithecus mona*.
 * Skull, young. Western Africa.
 * Skull. Western Africa.
 The BLACK-CHEEKED ASCAGNE. *Cercopithecus melanogenys*.
 * Skull. Western Africa.
 The WHITE-NOSED OR VAULTING MONKEY. *Cercopithecus Petaurista*.
 * Skull. West Africa.
 * Skull. West Africa.

CERCOCEBUS, Geoff.

- The SOOTY MANGABEY. *Cercocebus fuliginosus*.
 * Skull. Africa.
 The WHITE-CROWNED MANGABEY. *Cercocebus Æthiops*.
 * Skull.

MACACUS, Lacep.

The BRUCH. *Macacus nemestrinus*.
Skeleton. India.

The MACAQUE. *Macacus cynomolgus*.

* Skull. India.

* Skull. _____

* Skull. _____

* Skull. _____

Skull. _____

Skull. _____

The RHESUS. *Macacus Rhesus*.

Skull of an adult. Nepal. Presented by B. H. Hodgson,
Esq.

* Skeleton of young. Nepal. Presented by B. H. Hodgson,
Esq.

Skeleton of female. Nepal. Presented by B. H. Hodgson,
Esq.

* Skull. India.

The BLACK MACAQUE. *Macacus niger*.

* Skull of adult. Celebes.

* Skull of young. Philippines.

The MAGOT. *Macacus Inuus*.

* Skull. North Africa.

CYNOCEPHALUS, Brisson.

The ANUBIS. *Cynocephalus Anubis*.

* Skull. Africa.

The PAPION. *Cynocephalus Sphinx*.

* Skull. Guinea.

The CHACMA. *Cynocephalus porcarius*.

Skull. South Africa.

The BABOON. *Cynocephalus babouim*.

Skull. West Africa.

PAPIO, Brisson.

The MANDRILL. *Papio maimom, Latr.*

Skull of adult.

Skull of adult.

* Cast of skull.

Fam. 3. *CEBIDÆ.**ATELES, Geoff.*

The CHAMECK. *Ateles Chameck*.

* Skull. Guinea.

The MARIMONDA. *Ateles Belzebuth*.

* Skull. Brazils. Presented by Edward Cross, Esq.

* Skull. Brazils.

The BROWN SPIDER MONKEY. *Ateles hybridus*.

* Skull. South America.

●
BRACHYTELES, *Spix*.

The MIRKI. *Brachyteles hypoxanthus*.

Skeleton. From Mr. Brandt's collection.

The THUMBED MIRKI. *Brachyteles hemidactylus*.

* Skull. South America.

The MIRKI. *Brachyteles* — ?

Skull.

LAGOTHRIX, *Geoff*.

The CAPARRO or NEGRO MONKEY. *Lagothrix Humboldtii*.

* Skull. Brazils.

MYCETES, *Illiger*.

GOLDEN HOWLER. *Mycetes seniculus*.

* Skeleton. South America.

ARAGUATA or BROWN HOWLER. *Mycetes ursinus*.

* Skull. Brazils.

* Skull.

The SILKY HOWLER. *Mycetes laniger*.

* Skull. Columbia.

* Skull. Brazils.

The BLACK and YELLOW HOWLER. *Mycetes bicolor*.

* Skull. South America.

Hyoid bone. South America.

The GUARIBA or YELLOW-HANDED HOWLER. *Mycetes Belzebuth*.

Skull. Para, South America. Presented by R. Graham, Esq.

Skull. Para, South America. Presented by R. Graham Esq.

CEBUS, *Ersl*.

The CAPUCIN. *Cebus monachus*.

* Skull. South America.

* Skull. Paraguay.

The CAPUCIN. *Cebus* — ?

Skull. Para, South America. Presented by R. Graham, Esq.

Skull.

CALLITHRIX, *Erxl.*

The SAHAUSSU or MARKED TEE TEE. *Callithrix personatus*.

* Skull. South America.

* Skull.

* Skull.

The SAHAUSSU? *Callithrix* ————?

Skull. Para, South America. Presented by J. P. G. Smith, Esq.

JACCHUS, *Geoff.*

The PINCHE. *Jacchus Ædipus*.

Skull. Brazils.

RED-BELLIED MARMOSET. *Jacchus rufiventer*.

* Skull. South America.

The GNICK or BLACK-EARED MARMOSET. *Jacchus penicillatus*.

* Skull. Brazils.

The WHITE-EARED MARMOSET. *Jacchus auritus*.

* Skull. Brazils.

* Skull. South America.

NYCTIPITHECUS, *Spix.*

The VITOE. *Nyctipithecus felinus*

* Skull. Santa Fé de Bogota.

The HAIRY VITTOE. *Nyctipithecus villosus*.

* Skull. Santa Fé de Bogota.

Fam. 4. LEMURIDÆ.

LEMUR, *Linn.*

The RING-TAILED MACACO. *Lemur catta*.

Skeleton. Madagascar.

PROSIMIA, *Brisson.*

BLACK-FRONTED LEMUR. *Prosimia nigrifrons*, *Geoff.*

* Skull. Madagascar.

Skull. Madagascar.

LEMUR. *Prosimia* ————?

* Skull. Madagascar.

LEMUR. *Prosimia* ————?

* Skull. Madagascar.

INDRI, *Geoff.*

The INDRI. *Indris brevicaudata*.

- * Skull. Madagascar.
 * Bones of body. Madagascar.

NYCTICEBUS, *Geoff.*

- * The KUKANG. *Nycticebus Javanicus*.
 Skull. Madagascar.

LORIS, *Geoff.*

- The LORIS. *Loris gracilis*, *Geoff.*
 * Skull. Ceylon.

- BLACK GALAGO. *Galago Alleni*.
 Skull. Fernando Po. Presented by Thomas Thomson, Esq.,
 R.N.

GALAGO, *Geoff.*

- The MAHOLI. *Galago Maholi*.
 * Skull. South Africa.

Fam. 5. GALEOPITHECIDÆ.

GALEOPITHECUS, *Pallas.*

- The COLUGO. *Galeopithecus volans*.
 Skeleton. Malacca.
 Skull. Malacca.
 Skull. Malacca.
 Skull, young.

Fam. 6. VESPERTILIONIDÆ.

RHINOPOMA, *Geoff.*

- The INDIAN RHINOPOMA. *Rhinopoma Hardwickii*.
 Skull. India. Presented by Walter Elliott, Esq.

ARCTIBEUS, *Leach.*

- The JAMAICA ARCTIBEUS. *Arctibeus Jamaicensis*.
 Skull. Jamaica. Presented by J. S. Redman, Esq.

VAMPYRUS, *Geoff.*

- The PALE VAMPIRE. *Vampyrus spectrum*.
 Skull. Jamaica. Presented by J. S. Redman, Esq.

MONOPHYLLUS, *Leach.*

- REDMAN'S LEAF-NOSED BAT. *Monophyllus Redmani*.
 Skull. Jamaica. Presented by J. S. Redman, Esq.

MEGADERMA, *Geoff.*

- The CORDATE BAT. *Megaderma Spasma*.
 Skeleton. From the Leyden Museum.

LYRE-NOSED BROAD-WINGED BAT. *Megaderma Lyra*.
Five Skulls. Madras. Presented by Walter Elliott, Esq.

LAVIA, *Gray*.

AFRICAN LEAF BAT. *Lavia frons*.
Skull. West Africa, Cape Coast Castle. Presented by J. William, Esq.

RHINOLOPHUS, *Geoff*.

The NOBLE HORSESHOE BAT. *Rhinolophus nobilis*.
Skeleton. From the Leyden Museum.

LARGER HORSESHOE BAT. *Rhinolophus ferrum-equinum*?
Skull, male. ———? Presented by W. E. Leach, M.D.
Skull, female. ———? Presented by W. E. Leach, M.D.
Skull. ———?

The NEPAL HORSESHOE BAT. *Rhinolophus tragatus*.
Three Skulls. Nepal. Presented by B. H. Hodgson, Esq.

HIPPOSIDEROS, *Gray*.

MOUSE-COLOURED HORSESHOE BAT. *Hipposideros murinus*.
Skull. India, Madras. Presented by Walter Elliott, Esq.

FOXY HORSESHOE BAT. *Hipposideros fulvus*.
Skull. India, Madras. Presented by Walter Elliott, Esq.

APICILLATED HORSESHOE BAT. *Hipposideros apiculatus*.
Skull. India, Madras. Presented by Walter Elliott, Esq.

ASELLIA, *Gray*.

The THREE-TOOTHED ASELLIA. *Asellia tridens*.
Four Skulls. Egypt. Presented by Dr. Turnbull Christie.

NYCTERIS, *Geoff*.

The TWO-COLOURED NYCTERIS. *Nycteris discolor*.
* Skull. South Africa. From the Stockholm Museum.

VESPERTILIO, *Linn*.

INDIAN BAT. *Vespertilio* ———?
Two Skulls. India, Madras. Presented by Walter Elliott, Esq.

BAT. *Vespertilio* ———?
Skull, without lower-jaw. ———?
Skull, divided in half longitudinally. ———? Presented by W. E. Leach, M.D.
Skull. ———?

BAT. *Vespertilio* ———?
Three Skulls. India. Presented by General Hardwicke.

PLECOTUS, *Geoff.*

The COMMON LONG-EARED BAT. *Plecotus communis*.
Skull. England. Presented by W. E. Leach, M.D.

NOCTULINIA, *Gray.*

The NOCTULE. *Noctulinia altivolans*.
Skull. Cambridgeshire. Presented by the Rev. J. Henslow.
Skull, without lower-jaw. ———?

The INDIAN NOCTULE? *Noctulinia* ———?
Skeleton. India. Presented by General Hardwicke.

SCOTOPHILUS, *Leach.*

"SMITH'S BAT," (*Leach*). *Scotophilus*? ———?
Skull. ———? Presented by W. E. Leach, M.D.

TEMMINCK'S NOCTULE. *Scotophilus Temminckii*?
Skull, and bones of arms and legs. Penang. Presented by
General Hardwicke.

The MADRAS BAT. *Scotophilus Maderaspatanus*.
Skull. India, Madras. Presented by Walter Elliott, Esq.

The INDIAN BAT. *Scotophilus* ———?
Two Skulls (not in good state). India, Madras. Presented by
Walter Elliott, Esq.

The AUSTRALIAN BAT. *Scotophilus Morio*.
Two Skulls. West Australia. From Mr. Gould's collection.
Two Skulls. West Australia. From Mr. Gould's collection.

The BAT. *Scotophilus murinus*.
Skeleton. England.

The MINUTE SCOTOPHILUS. *Scotophilus minutus*.
*Skull. South Africa. From the Stockholm Museum.

MYSTACINA, *Gray.*

The MYSTACINA. *Mystacina tuberculata*.
Bones of body. New Zealand.

TAPHOZOUS, *Geoff.*

The INDIAN TAPHOZOUS. *Taphozous* ———?
Skull (wanting upper canine and cutting teeth) India, Madras.
Presented by Walter Elliott, Esq.

NOCTILIO, *Linn.*

The BULL-DOG BAT. *Noctilio americanus*?
Skull (without lower-jaw). South America.

NYCTINOMUS, *Geoff.*

The GROOVED-CHEEK BAT. *Nyctinomus plicatus*.
Skeleton. From the Leyden Museum.

The MIDAS GROOVED-CHEEK BAT. *Nyctinomus Midas*.
* Skull. Senaar. From the Stockholm Museum.

XANTHARPYIA, *Gray.*

The EGYPTIAN XANTHARPYE. *Xantharpyia Ægyptiaca*.
Skulls. Egypt. Presented by Dr. Turnbull Christie.

PTEROPUS, *Brisson.*

The RED-NAPED KALONG. *Pteropus funereus*.
Skull. Australia.

The WURLAGZOO. *Pteropus Edwardsii, Geoff.*

Skull, adult. Nepal. Presented by B. H. Hodgson, Esq.
Skeleton? India.

Skull. Madras. Presented by Walter Elliott, Esq.

Skull. India. Presented by General T. Hardwicke.

Skull. India.

Skull. Madras. Presented by Walter Elliott, Esq.

Two Skulls. India.

Skull (imperfect behind). India. Presented by General T. Hardwicke.

Skull. India, Bengal. Presented by General T. Hardwicke.

The FLYING BAT. *Pteropus* ——— ?

Skull. ——— ?

CYNOPTERUS, *Temm.*

The WARTY LIPPED CYNOPTERE. *Cynopterus Titthæcheilus*.

Skeleton. Sumatra. From the Leyden collection.

Skull (imperfect). Presented by Walter Elliott, Esq.

The MARGINED EARED CYNOPTERE. *Cynopterus marginatus*.

Skull. India. Presented by Walter Elliott, Esq.

Skull. India. Presented by Walter Elliott, Esq.

CEPHALOTES, *Geoff.*

The CEPHALOTE. *Cephalotis Peronii*.

Skull. From the Leyden Museum.

Order II. FERÆ.

Fam. 1. FELIDÆ.

LEO, *Leach.*

The LION. *Leo barbarus*.

Skeleton. Africa.

Skull. Africa.

Skull. Africa. From Dr. Mantell's collection.

Skull. Africa. From Dr. Mantell's collection.

Skull, young. Africa.

Skull. Africa.

GAMBIAN LION. *Leo Gambianus*.

* Skull. West Africa.

TIGRIS, *Gray*.

The TIGER. *Tigris regalis*.

Two Skulls. India. Presented by General Hardwicke.

Skull, adult. Nepal. Presented by B. H. Hodgson, Esq.

Skull. India. Presented by H. Lacon, Esq.

Skull. India.

Skull? India.

Skull, young. India.

Skull, young. India.

LEOPARDUS, *Gray*.

The LEOPARD. *Leopardus varius*.

Skull, adult. Nepal. Presented by B. H. Hodgson, Esq.

Skull, young. Nepal. Presented by B. H. Hodgson, Esq.

Skull. Nepal.

Skull. (imperfect) Africa. Presented by W. Burchell, Esq.,

L.L.D.

Skull. Africa.

Skull. India.

The CHITTRA GILLON. *Leopardus celidogaster*.

Skull. Nepal. Presented by B. H. Hodgson, Esq.

Skull, adult, much elongated behind. Nepal. Presented by B. H. Hodgson, Esq.

Skull, adult, less elongated behind. Nepal. Presented by B. H. Hodgson, Esq.

Skeleton, imperfect. Nepal. Presented by B. H. Hodgson, Esq.

The JAGUAR. *Leopardus Onca*.

* Skull, small. South America.

Skull, large. Para, Brazils. Presented by R. Graham, Esq.

Skull, large. Para, Brazils. Presented by R. Graham, Esq.

Skull, large. Para, Brazils. Presented by R. Graham, Esq.

The MURMI. *Leopardus moormensis*.

Skull. Nepal. Presented by B. H. Hodgson, Esq.

The WAGATI CAT. *Leopardus viverrinus*.

Skull. Nepal. Presented by B. H. Hodgson, Esq.

Skull. Nepal. Presented by B. H. Hodgson, Esq.

Skull. Nepal. Presented by B. H. Hodgson, Esq.

WARWICK'S CAT. *Leopardus Himalayanus*.

* Himalaya. Presented by Edward Cross, Esq.

ELLIOT'S CAT. *Leopardus Ellioti*.

Skull, orbit complete behind. Nepal. Presented by B. H. Hodgson, Esq.

Skull, orbit interrupted behind. Nepal. Presented by B. H. Hodgson, Esq.

The BULU. *Leopardus Sumatrana*.

* Skull. Malacca.

The OCELOT. *Leopardus pardalis*.

* Skull. South America.

Skeleton. South America. From Mr. Brandt's collection.

The MARBLED CAT. *Leopardus marmoratus*.

* Skull. Dardagellan. Presented by Andrew Charlton, Esq.

Skull. Borneo. Presented by J. Brooks, Esq.

The YAGOUARONDI. *Leopardus Yagouarondi*.

Skull. South America.

FELIS, *Linn.*

The PAMPAS CAT. *Felis Pagers*.

* Skull. Chili.

The CAT. *Felis domesticus*.

Skull. Nepal. Presented by B. H. Hodgson, Esq.

* Skull. Isle of Man. Presented by Mrs. Col. Thompson.

Skull. England. Presented by Mr. J. Baker.

Skeleton, adult. England.

Skeleton of fœtus. England. Presented by J. E. Gray, Esq.

Skulls. England. Presented by John Ray, Esq.

Skull. England.

CAT. *Felis* ———?

Skull.

CAT. *Felis* ———?

Skull. From Dr. Mantel's collection.

CHAUS, *Gray*.

FLAT-HEADED CAT. *Chaus? planiceps*.

Skull.

Skull. Malacca. Presented by Andrew Charlton, Esq.

The CHAUS. *Chaus Libycus*.

Skull, adult. Nepal. Presented by B. H. Hodgson, Esq.

Skull, adult, imperfect. Nepal. Presented by B. H. Hodgson, Esq.

- The **Servaline CHAUS.** *Chaus servalinus.*
 Skull. Senegal.
 Skull. Senegal.
 Skeleton. Sierra Leone. Presented by W. Whitfield, Esq.
 * Skull.

LYNCHUS, Gray.

- The **PEESHOO or CANADA LYNX.** *Lynchus Canadensis.*
 Skull. Canada.
 Skull. Hudson's Bay. Presented by the Hudson's Bay Company.

GUEPARDA, Gray.

- The **YOUZE or CHETAH.** *Gueparda jubata.*
 * Skull. Cape of Good Hope. Presented by W. Burchell, Esq.

HYÆNA, Brisson.

- The **STRIPED HYÆNA.** *Hyæna striata.*
 Skull. Cape of Good Hope. Presented by Edward Cross, Esq.
 * Skull. Cape of Good Hope. Presented by Edward Cross, Esq.
 Skull. Northern Circar.
 Skull. Cape of Good Hope?

PROTELES, Geoff.

- The **AARD WOLF.** *Proteles cristatus.*
 * Skull. South Africa.

VIVERRA, Linn.

- The **CIVET.** *Viverra Civetta.*
 * Skull. Tropical America. Presented by Edward Cross, Esq.
 The **ZIBETH.** *Viverra Zibetha, Linn.*
 Skull, imperfect. Nepal. Presented by B. H. Hodgson, Esq.
 Skeleton of trunk. Nepal. Presented by B. H. Hodgson, Esq.
 The **RASSE.** *Viverra Malaccensis, Gmelin.*
 Skeleton, nearly perfect. Nepal. Presented by B. H. Hodgson, Esq.
 Skull. Nepal. Presented by B. H. Hodgson, Esq.
 Skull. Nepal. Presented by B. H. Hodgson, Esq.
 Skull. Nepal. Presented by B. H. Hodgson, Esq.
 Skull. Nepal. Presented by B. H. Hodgson, Esq.
 * Skull, lower-jaw wanting.

GENETTA, Cuv.

- The **BLOTCHED GENET.** *Genetta tigrina.*
 * Skull. Cape of Good Hope.

BASARIS, *Licht.*The CACOMIXLE. *Basaris astuta.*

* Skull. Mexico. Presented by J. Phillips, Esq.

MUNGOS, *Ogilby.*

MUNGOS VITTICOLLIS.

* Skull. Tranancore, India.

URVA, *Hodgson.*The URVA. *Urva Cancrivora, Hodgson.*

Skull. Nepal. Presented by B. H. Hodgson, Esq.

* Skull. Nepal. Presented by B. H. Hodgson, Esq.

HERPESTES, *Illig.*The NYULA. *Herpestes Nyula, Hodgson.*

Skull. Nepal. Presented by B. H. Hodgson, Esq.

Skeleton, imperfect. Nepal. Presented by B. H. Hodgson, Esq.

The HIGHLAND NYULA. *Herpestes Nipalensis.*

Skeleton, imperfect. Nepal. Presented by B. H. Hodgson, Esq.

Skull, imperfect. Nepal. Presented by B. H. Hodgson, Esq.

Skull. India. Presented by S. Sotheby, Esq.

Skull. India. Presented by T. Ingall, Esq.

Skull. India.

The ICHNEUMON. *Herpestes Ichneumon.*

* Skull. North Africa.

Skull.

The BROWN ICHNEUMON. *Herpestes paludosus.*

Skull. Cape of Good Hope.

SURICATA, *Desm.*The ZENICK. *Suricata Zenick.*

Skull.

* Skull. South Africa.

CYNOGALE, *Gray.*The MAMPALON. *Cynogale Bennetii.*

* Skull. Borneo.

PAGUMA, *Gray.*NEPAL PAGUMA. *Paguma Grayii.*

Skeleton, imperfect. Nepal. Presented by B. H. Hodgson, Esq.

The MASKED PAGUMA. *Paguma larvata*.
Skull. China. Presented by John Reeves, Esq.

CROSS'S PAGUMA. *Paguma Crossii*.
Skeleton. Presented by Edward Cross, Esq.

PARADOXURUS, *Cuv.*

The PHILIPPINE PARADOXURE. *Paradoxurus Zeylanicus*.
* Skull. Camigiund. From Mr. Cuming's collection.

The BLACK-FRONTED PARADOXURE. *Paradoxurus nigrifrons*.
* Skull. India. Presented by Edward Cross, Esq.

The BONDAR or MÜCHABBA. *Paradoxurus Bondar*.
Skull. Nepal. Presented by B. H. Hodgson, Esq.
Skull. Nepal. Presented by B. H. Hodgson, Esq.
Skull. Nepal. Presented by B. H. Hodgson, Esq.
Skull and imperfect skeleton. Nepal. Presented by B. H. Hodgson, Esq.

Skull, half grown. Nepal. Presented by B. H. Hodgson, Esq.
Skull, very young. Nepal. Presented by B. H. Hodgson, Esq.

HEMIGALEA, *Jourd.*

The HEMIGALE. *Hemigalea zebra*.
* Skull.

CUON, *Hodgson.*

The CUON. *Cuon primævus, Hodgson*.
Skeleton, adult, (without skull). Nepal. Presented by B. H. Hodgson, Esq.

Skeleton, fœtus. Nepal. Presented by B. H. Hodgson, Esq.

Skull. Nepal. Presented by B. H. Hodgson, Esq.

* Skull. Nepal. Presented by B. H. Hodgson, Esq.

Skull, fœtal. Nepal. Presented by B. H. Hodgson, Esq.

Skull, fœtal. Nepal. Presented by B. H. Hodgson, Esq.

The KOLSUN. *Cuon Dukhanensis*.
* Skull. Madras. Presented by Colonel Sykes.

The QUAO? *Cuon sumatrensis*.
* Skull. Sumatra.

The SIBERIAN RED WOLF. *Cuon alpinus*.
* Skull. Altai Mountains. From Mr. Brandt's collection.
Skull. Malacca. Presented by Andrew Charlton, Esq.

CANIS, *Linn.*

The ABYSSINIAN WOLF. *Canis Simensis*.
* Skull. Abyssinia. From the Frankfort Museum.

The JACKALL OF GHIDAR. *Canis aureus*.
Three Skulls of different aged specimens. Presented by B. H. Hodgson, Esq.

The LANGDAH OF INDIAN WOLF. *Canis pallipes*.
Skull. Nepal. Presented by B. H. Hodgson, Esq.
Skeleton. Nepal. Presented by B. H. Hodgson, Esq.
Skull. Nepal. Presented by B. H. Hodgson, Esq.

The AMERICAN WOLF. *Canis occidentalis*.
Skeleton. North America. Presented by R. King, Esq., R.N.

The DOG. *Canis familiaris*.
Skulls. Presented by Captain Sir John Ross, R.N.
Three Skulls of the different ages of the Pariah Dog. Presented by B. H. Hodgson, Esq.
Skull of a Mongrel Bhotea Dog. Presented by B. H. Hodgson, Esq.
Two Skulls of the Bhotea Mastiff. Presented by B. H. Hodgson, Esq.
Skull of a Cabul Tazee Greyhound. Presented by B. H. Hodgson, Esq.
Skull of an English Greyhound. Presented by B. H. Hodgson, Esq.
Skull of an English Spaniel. Presented by B. H. Hodgson, Esq.
Skull of an English Spaniel (Mongrel?). Presented by B. H. Hodgson, Esq.
Skull of an English Pointer. Presented by B. H. Hodgson, Esq.
Two Skulls of Chinese Lapdogs, one young. Presented by B. H. Hodgson, Esq.
Skeleton of the Pariah. Presented by B. H. Hodgson, Esq.
Skull of the Pariah Dog. Presented by B. H. Hodgson, Esq.
Skull of the Tibetahi Mastiff. Presented by B. H. Hodgson, Esq.
Skull of the Mount Saint Bernard Dog. Mount Saint Bernard.
Skull of the Bull Dog. Presented by Mr. Edward Gerrard.
Skull of the Blood Hound. Ireland.
Skull. England.
Skull of a Bull Dog.

The DINGO. *Canis Dingo*.
* Skull. Moore's River, Australia.

The WOLF. *Canis Lupus*.
Skull. Europe. Presented by Sir T. Wilson, Bart.

The BLACK WOLF. *Canis Lycaon*.

* Skull. America?

Dog———? *Canis*———?

Skull, imperfect.

Dog.———? *Canis*———?

Skull. Hudson's Bay. Presented by the Hudson's Bay Company.

VULPES, Ray.

The SABORA. *Vulpes niloticus*.

Skull. Egypt. Presented by Dr. Turnbull Christie.

The AMERICAN FOX or MAKKEESHEW. *Vulpes fulvus*.

Skull. North America. From Dr. Mantell's collection.

The KOKREE or LOMER. *Vulpes Bengalensis*.

Skull, adult. Nepal, Tarai. Presented by B. H. Hodgson, Esq.

An imperfect Skull of a young specimen. Presented by B. H. Hodgson, Esq.

Skull, adult. Nepal. Presented by B. H. Hodgson, Esq.

The FOX. *Vulpes vulgaris*.

* Skull. England.

Skull, England. Presented by John Ray, Esq.

The HILL FOX. *Vulpes montanus*.

* Skull. Nepal. Presented by the Rev. R. Ewing.

The BLACK-BELLIED FOX. *Vulpes melanogaster*.

* Skull. Toscana.

BRAZILIAN FOX. *Vulpes*———?

Skull. Brazils.

The KIT FOX. *Vulpes cinereo-argentatus*.

Skull.

* Skull. Texas.

* Skull, young. Brazils.

THE JAPAN FOX. *Vulpes japonicus*.

* Skull. Japan.

AMERICAN FOX. *Vulpes fulvus*.

Skull. Hudson's Bay. Presented by the Hudson's Bay Company.

Skull. Hudson's Bay. Presented by the Hudson's Bay Company.

The FENNEC. *Vulpes Zaarensis*.

Skull, young, imperfect. Egypt. Presented by J. Burton, Esq.

CYNALIUS, Gray

The BLACK-BELLIED CYNALIUS. *Cynalius melanogaster*.

- * Skull. Brazils. From Mr. Brandt's collection.

NYCTEREUTES, Temm.

The RACCOON DOG. *Nyctereutes Procyonoides*.

- * Skull.

OTOCYON, Licht.

The OTOCYON. *Otocyon Lalandii*.

- * Skull. Cape of Good Hope. Presented by the Earl of Derby.

MARTES, Cuvier.

The PINE MARTEN. *Martes abietum*.

- * Skull. Altai Mountains. From Mr. Brandt's collection.

The JAPANESE SABLE. *Martes melanopus*.

- * Skull. Japan. From the Leyden Museum.

The WHITE-CHEEKED WEAZEL. *Martes flavigula*.

- Teeth. Nepal. Presented by B. H. Hodgson, Esq.

The front of the Jaws. Nepal. Presented by B. H. Hodgson, Esq.

Skulls of young and half-grown specimens. Presented by B. H. Hodgson, Esq.

The Skull and Bones of the Trunk of an adult, the hinder tubercular grinders broader. Nepal. Presented by B. H. Hodgson, Esq.

The PEKAN or WOOD SHOCK. *Martes canadensis*.

- Skull. Hudson's Bay. Presented by the Hudson's Bay Company.

PUTORIUS, Cuv.

The POLECAT. *Putorius fœtidus*.

Skull.

- * Skull. Siberia.

Skull. England. Presented by John Ray, Esq.

VISON, Gray.

The MINK or VISON. *Vison lutreola*.

Skull. Hudson's Bay. Presented by the Hudson's Bay Company.

Skull. Hudson's Bay. Presented by the Hudson's Bay Company.

MUSTELA, *Linn.*

The WEASEL. *Mustela vulgaris*.

* Skull. Siberia.

Skull. Siberia. England. Presented by John Ray, Esq.

* The BLACK-FACED WEASEL. *Mustela frenata*.

Skull. Mexico.

The STOAT OR ERMINE. *Mustela erminea*.

Three Skulls. England.

The YELLOW-CHEEKED WEASEL. *Mustela xanthogenys*.

* Skull. Presented by Captain Sir E. Belcher, R.N., C.B.

The CHOROK. *Mustela sibirica*.

* Skull. Siberia. From the Museum of St. Petersburg.

The ALTAIC WEASEL. *Mustela alpina*.

Skull. Altaic Mountains. From the Museum of St. Petersburg.

* Skull. Altaic Mountains. From the Museum of St. Petersburg.

The NAKED-FOOTED WEASEL. *Mustela nudipes*.

* Skull. Java.

The CATHIA. *Mustela Cathia vel auriventer*.

Skull. India. Presented by B. H. Hodgson, Esq.

The NEPAL WEASEL. *Mustela subhemachalana*.

Skull. Nepal. Presented by B. H. Hodgson, Esq.

ZORILLA, *Gray.*

The ZORILLE. *Zorilla striata*.

Skull. Cape of Good Hope.

MELIVORA, *Storr.*

The RATEL OR BHARSIAH. *Melivora Ratel*.

Skull, adult. Nepal. Presented by B. H. Hodgson, Esq.

Skull, adult. Nepal. Presented by B. H. Hodgson, Esq.

GULO, *Storr.*

The WOLVERENE. *Gulo luscus*.

Skull. Altai Mountains. From Mr. Brandt's collection.

ARCTONYX, *Cuvier.*

The BALISAUR OR SAND BEAR. *Arctonyx collaris*,

Skull and Subcaudal Glands. India. Presented by General T. Hardwicke.

HELICTES, Gray.

The **HELICTES**. *Helictes moschata*.

Skull. China. Presented by J. Reeves, Esq.

The **NEPAL HELICTES**. *Helictes nipalensis*.

Skull, imperfect at the occiput. Nepal. Presented by B. H. Hodgson, Esq.

MEPHITES, Cuv.

LARGE-TAILED SKUNK. *Mephites macroma*.

* Skull. Mexico. From Mr. Brandt's collection.

GRISONIA, Gray.

The **GRISON OR HURON**. *Grisonia vittata*.

Skeleton. From Mr. Brandt's collection.

MELES, Linn.

The **BADGER**. *Meles Taxus*.

Skeleton. England.

Skull. England.

Skull, young. England.

TAXIDEA, Waterh.

The **BRAIBO OR LACYOTL**. *Taxidea Labradoria*.

* Skull. North America. Presented by J. Gould, Esq.

LONTRA, Gray.

The **LONTRA**. *Lontra Braziliensis*.

* Skull. Brazils.

Skeleton. Brazils. From Mr. Brandt's collection.

LUTRA, Linn.

The **MOUNTAIN OTTER**. *Lutra monticola*.

Three Skulls, two adult and one young. Nepal. Presented by B. H. Hodgson, Esq.

Skull, much narrower between the orbits. Presented by B. H. Hodgson, Esq.

The **OTTER**. *Lutra vulgaris*.

Bones of Body. Presented by Mr. J. Baker.

The **INDIAN OTTER**. *Lutra* ———?

Skull. Bengal. Presented by B. H. Hodgson, Esq.

AONYX, Lesson.

The **NEPAL WARGUL**. *Aonyx indigitatus*.

Front of the jaws of half-grown animal. Nepal. Presented by B. H. Hodgson, Esq.

Fam. 2. *URSIDÆ*.*URSUS, Linn.*

The MUSQUAU or AMERICAN BLACK BEAR. *Ursus americanus*.

Skull. Hudson's Bay. From Dr. Mantell's collection.

Skull. North America.

Skull, adult. North America.

The BEAR. *Ursus arctos*.

* Skull. Sweden. Presented by the Earl of Selkirk.

The RITCH or DUBB. *Ursus Isabellinus*.

Front of lower jaw, with a small piece of skin attached. Thibet.

Presented by B. H. Hodgson, Esq.

HELARCTOS, Horsf.

The TIBET BEAR. *Helarctos Tibetanus*.

Skull of female 20 months old. Nepal. Presented by B. H. Hodgson, Esq.

Three Skulls, of different ages. Nepal. Presented by B. H. Hodgson, Esq.

Skull of a just-born specimen. Nepal. Presented by B. H. Hodgson, Esq.

Skull, adult. Nepal. Presented by B. H. Hodgson, Esq.

MELURUSUS, Meyer.

The ASWAIL. *Melursus Lybius*.

* Skull and Bones of Body.

Skull. Nepal. Presented by B. H. Hodgson, Esq.

Two Skulls. Northern Circars.

Skull. From Dr. Mantell's collection.

THALARCTOS, Gray.

The NENOOK or POLAR BEAR. *Thalarctos maritimus*.

Skull. Arctic Ocean. From Dr. Mantell's collection.

Skull. Greenland.

Skull. Greenland.

Skull. North Sea.

Skull. North Sea.

Skull. North Sea.

Skull, adult. North Sea.

PROCYON, Storr.

The RACCOON. *Procyon Lotor*.

Skeleton. North America.

The PSORA. *Procyon Psora*.

- * Skull. California. Presented by Captain Sir E. Belcher, R.N., C.B.

NASUA, *Storr*.

The COATI. *Nasua rufa*.

Skull. South America.

The NARICA or QUASJE. *Nasua narica*.

Skull. Tropical America.

Skeleton. Tropical America.

AILURUS, *Storr*.

The WAH. *Ailurus fulgens*.

Teeth. Nepal. Presented by B. H. Hodgson, Esq.

The Front of the Jaws. Nepal. Presented by B. H. Hodgson, Esq.

Skull. Nepal. Presented by B. H. Hodgson, Esq.

Two Skulls, differing in the width of the muzzle. Nepal. Presented by B. H. Hodgson, Esq.

Fam. 3. TALPIDÆ.

TALPA, *Linn.*

The MOLE. *Talpa Europæa*.

Skeleton. Europe. Presented by General T. Hardwicke.

Skull. Europe.

Skull. Europe.

The SHORT-TAILED MOLE. *Talpa micrura*.

- * Skull. Nepal. Presented by B. H. Hodgson, Esq.

SCALOPS, *Cuv.*

The SCALOPS or SHREW MOLE. *Scalops aquaticus*.

- * Skull. North America.

CHRYSOCHLORIS, *Cuv.*

The CHANGEABLE MOLE. *Chrysochloris holosericea*.

- * Skull. Cape of Good Hope.

- * Skull. Cape of Good Hope...

- * Skulls. South Africa.

Skulls. South Africa.

TUPAIA, *Raffles*.

The BANGSRING. *Tupaia Javanica*.

- * Skull. Java.

- * Skull. Singapore.

Skull. Singapore.

MACROSCELIDES, *Smith.*The ELEPHANT SHREW. *Macroscelides proboscideus.*

- * Skull. Cape of Good Hope. From the Stockholm Museum.

SOREX, *Linn.*The MONDJOUROU or SONDELI. *Sorex murinus.*

Skull. India.

Skull. Nepal. Presented by B. H. Hodgson, Esq.

Skull. Nepal. Presented by B. H. Hodgson, Esq.

CAPE SHREW. *Sorex* ———?

Skull. Cape of Good Hope.

CORSIRA, *Gray.*BLACKISH SHREW. *Corsira nigrescens.*

* Skull. India.

TROPICAL SHREW. *Corsira Tropicalis.*

* Skull. Coban, South America.

BLARIA, *Gray.*MEXICAN SHREW. *Blaria Mexicana.*

* Skull. Coban, South America.

CROSSOPUS, *Wagner.*The WATER SHREW. *Crossopus fodiens.*

Skull. Epping. Presented by H. Doubleday, Esq.

Skull. England.

GALEMYS, *Wagler.*The FRENCH DAESMAN. *Galemys Pyrenaica.*

* Skull. Pyrenees.

GYMNURA, *Raffles.*The BULAU or TIKUS. *Gymnura Rafflesii.*

* Skull. Borneo. Presented by J. Brookes, Esq.

ERINACEUS, *Linn.*The HEDGEHOG. *Erinaceus Europæus.*

Skull.

ABYSSINIAN HEDGEHOG. *Erinaceus* ———?

* Skull. Abyssinia.

Fam. 4. MACROPIDÆ.

ACROBATES, *Desm.*The OPOSSUM MOUSE. *Acrobates pygmaeus.*

* Skull. New Holland. From Mr. Gould's collection.

PETAURUS, *Shaw.*

The SUGAR SQUIRREL. *Petaurus sciureus*.
Skeleton. New Zealand. Presented by Captain P. P. King,
R.N.

The ARIEL. *Petaurus ariel*.
Skull. Port Essington. Presented by Captain W. Chambers,
R.N.

The SHORT-HEADED PETAURUS. *Petaurus breviceps*.
* Skull. Australia.

PETAURISTA, *Desm.*

• The PETAURISTE. *Petaurista taguanoides*.
Skull. Australia. Presented by Mr. J. Baker.
* Skull, white variety. New Holland.

DROMICIA, *Gray.*

BELL'S DROMICIA. *Dromicia gliriformis*.
* Skull. West Australia.

PHALANGISTA, *Cuv.*

The URSINE PHALANGISTA. *Phalangista ursina*.
* Skull, adult. Celebes.
* Skull, half-grown. Celebes.

The VULPINE PHALANGISTA. *Phalangista vulpina*.
* Skull. Port Essington. From Mr. Gould's collection.
* Skull. Port Essington. From Mr. Gould's collection.
Skull. Port Essington. From Mr. Gould's collection.

The PHALANGISTA. *Phalangista* ———?
* Skull, adult. South Australia. Presented by Captain G. Grey.
* Skull, young. South Australia. Presented by Captain G. Grey.

PHASCOLARCTOS, *Blain.*

The KOALA OR NATIVE BEAR. *Phascolarctos cinereus*.
* Skull. New Holland.

MACROPUS, *Shaw.*

The KANGAROO. *Macropus major*.
Skull. Australia.
Skeleton. Australia.
* Skull. South Australia. Presented by Captain G. Grey.
* Skull. South Australia. Presented by Captain G. Grey.

The WOOLY KANGAROO. *Macropus laniger*.
* Skull. South Australia. Presented by Captain G. Grey.

- The SWAN RIVER KANGAROO. *Macropus ocydromus*.
 Skull, male. Weight of animal 160lbs. From Mr. Gould's collection.
 Skull, male. Weight of animal 70 lbs. Tooday. From Mr. Gould's collection.
 Skull, male. From Mr. Gould's collection.
 Skull, female. Weight of animal, 45lbs. Northam. From Mr. Gould's collection.
 Skull, female. Weight of animal 40lbs. Moore's Rivers. From Mr. Gould's collection.
 Skull, mature, female. Weight of animal 50lbs. Northam. From Mr. Gould's collection.
 Skull, female, with second year's young. Weight of animal 40lbs. Moore's River. From Mr. Gould's collection.
 Skull, Flying Doe of one year, or before breeding. Weight of animal, about 30lbs. Moore's River. From Mr. Gould's collection.
 Skull, male, of the first year. Weight of animal 25lbs. Killed between the Vasse and Augusta. From Mr. Gould's collection.
- The CRESCENT-MARKED KANGAROO. *Macropus lunatus*.
 Teeth of Upper and Lower Jaw, left side, female. From Mr. Gould's collection.
 * Skull. Australia. From Mr. Gould's collection.

HALMATURUS, Illig. ? F. Cuv.

- The TASMANIAN BUSH KANGAROO. *Halmaturus Bennettii*.
 Skull. Van Diemen's Land.
- The AGILE KANGAROO. *Halmaturus agilis*.
 * Skull. Port Essington. Presented by Dr. Richardson.
 * Skull, female. Presented by Dr. Richardson.
- The THETIS. *Halmaturus Thetides*.
 Skull. Musquito Island. Presented by J. Macgillivray, Esq.
 Skull. From Mr. Gould's collection.
- The WHALLABEE. *Halmaturus Ualabatus*.
 Skull. Musquito Island. Presented by J. Macgillivray, Esq.
- The TASMANIAN WHALLABEE. *Halmaturus Billardieri*.
 Skull. Van Diemen's Land?
- DAMA WHALLABEE. *Halmaturus dama*.
 * Skull, male. Australia.
 * Skull, female. Australia.
 * Skull. Australia.
- SLENDER KANGAROO. *Halmaturus gracilis*.
 * Skull. Australia. From Mr. Gould's collection.

- * Skull. Australia. From Mr. Gould's collection.
 * Skull. Australia. From Mr. Gould's collection.
HOUTMAN'S KANGAROO. *Halmaturus Houtmanii*.
 Skull, male. Houtman's Abrolhos. From Mr. Gould's collection.
 Skull, male. Houtman's Abrolhos. From Mr. Gould's collection.
 Skull, female. Houtman's Abrolhos. From Mr. Gould's collection.
 Skull, male. Houtman's Abrolhos. From Mr. Gould's collection.
 Skull, female. Houtman's Abrolhos. From Mr. Gould's collection.
 * Skull, male, one year old. Weight 5lbs. East Wallaby Island, Houtman's Abrolhos.
 Skull, female. Weight 8lbs. East Wallaby Island. Houtman's Abrolhos. *

The BLACK-LINED KANGAROO. *Halmaturus dorsalis*.
 Skull. Brezi, New South Wales. From Mr. Gould's collection.

- CAPTAIN GREY'S KANGAROO.** *Halmaturus Greyii*.
 * Skull. South Australia. Presented by Captain G. Grey.
 * Skull. South Australia. Presented by Captain G. Grey.

The BLACK-HANDED KANGAROO. *Halmaturus Irma*.
 Skull, male. Australia. Weight of animal 19lbs. From Mr. Gould's collection.
 Skull, male. Australia. From Mr. Gould's collection.
 Skull, female. Australia. From Mr. Gould's collection.

KANGAROO. *Halmaturus*———?
 Skull. From Mr. Gould's collection.

The SHORT-TAILED THYLOGALE. *Halmaturus (Thylogale) brevicaudatus*.

- * Skull. West Australia.
 Skull. From Mr. Gould's collection.

OSPHRANTER, *Gould*.

The BLACK WALLAROO. *Osphranter robustus*.
 Skull. Australia. From Mr. Gould's collection.
 * Skull. West Australia. From Mr. Gould's collection.

The OSPHRANTER. *Osphranter Antilopinus*.
 Skull. Australia.

PETROGALE, *Gray*.

The SHORT-EARED ROCK KANGAROO, *Petrogale brachyotis*.
 Skull, male. Weight of animal 7lbs. Australia. From Mr. Gould's collection.

The **SIDE-STREAKED ROCK KANGAROO**. *Petrogale lateralis*.
Skull, male, nearly adult. Australia. From Mr. Gould's collection.

Skull, male. Swan River, Australia. From Mr. Gould's collection.

BETTONGIA, Gray.

The **FIELD BETTONG**. *Bettongia campestris*.
Skull, old male. South Australia. From Mr. Gould's collection.
Skull. South Australia. From Mr. Gould's collection.
Skull. South Australia. From Mr. Gould's collection.

WHITE'S BETTONG. *Bettongia Whiteii*.
Skull, male. Australia. From Mr. Gould's collection.

Bettongia———?

Skull, male. Darling Downs. From Mr. Gould's collection.

GRAY'S BETTONG. *Bettongia Grayii*.
Skull, female. Australia. From Mr. Gould's collection.
Skull, female. Australia. From Mr. Gould's collection.
Skull, male. Australia. From Mr. Gould's collection.
Skull, female. Australia. From Mr. Gould's collection.

The **BRUSH-TAILED BETTONG**. *Bettongia penicillata*.
Skull. Australia.

OGILBY'S BETTONG. *Bettongia Ogilbii*.
Skull, male. Australia. From Mr. Gould's collection.
Skull, female. Australia. From Mr. Gould's collection.
Skull, female. Australia. From Mr. Gould's collection.
Skull, female. Australia. From Mr. Gould's collection.
Skull, adult, lower jaw wanting. Swan River. From Mr. Gould's collection.

The **RUSTY BETTONG**. *Bettongia rufescens*.
Skull, male. Australia.

HYPSIPRYMNUS, Illig.

The **KANGAROO RAT**. *Hypsiprymnus minor*.
Skeleton. Australia.
* Skull. Australia.
Skull, female. New South Wales. From Mr. Gould's collection.

GILBERT'S KANGAROO RAT. *Hypsiprymnus Gilbertii*.
* Skull. From Mr. Gould's collection.
Skull, female. West Australia. From Mr. Gould's collection.

FLAT-EYED KANGAROO RAT. *Hypsiprymnus platyops*.
* Skull. Walyema Swamps, forty miles N.E. West Australia.
From Mr. Gould's collection.

LAGORCHESTES, *Gould*.

The KANGAROO HARE. *Lagorchestes leperoides*.

* Skull, adult. South Australia. Presented by Captain G. Grey.

* Skull, young.

* Skull, female. South Australia. From Mr. Gould's collection.

* Skull, male. South Australia. From Mr. Gould's collection.

KANGAROO HARE. *Lagorchestes*———?

Skull, female. South Australia. From Mr. Gould's collection.

KANGAROO HARE. *Lagorchestes*———?

Skull. South Australia. From Mr. Gould's collection.

KANGAROO HARE. *Lagorchestes*———?

Skull. Tiemouelle Island. From Mr. Gould's collection.

The SPECKLED KANGAROO HARE. *Lagorchestes conspicillatus*.

Skull, adult male. From Mr. Gould's collection.

HAIRY KANGAROO HARE OR WOOROON. *Lagorchestes hirsutus*.

Skull, male. From Mr. Gould's collection.

* Skull. York, West Australia. From Mr. Gould's collection

BANDED KANGAROO HARE. *Lagorchestes fasciata*.

* Skull. Vicinity of York, West Australia: From Mr. Gould's collection.

* Skull. Wougan Hills.

PHASCOLOMYS, *Geoff*.

The WOMBAT. *Phascolomys ursinus*.

Skull. New Holland. Presented by Allan Cunningham, Esq., F.L.S.

Skull. Australia.

Skeleton. Australia. Antarctic Expedition. Presented by the Admiralty.

PERAMELES, *Geoff*.

SANDY BANDICOOT. *Perameles arenaria*.

* Skull. York, West Australia. From Mr. Gould's collection.

* Skull. York, West Australia. From Mr. Gould's collection.

THICK-TAILED BANDICOOT. *Perameles macroura*.

* Skull. Australia. From Mr. Gould's collection.

BANDICOOT. *Perameles*———?

Skull, and Fore and Hind Foot. Adelaide. Presented by C. D. E. Fortnum, Esq.

The BANDED BANDICOOT. *Perameles Gunii*.

* Skull. West Australia. Presented by Captain G. Grey.

The SPINY BANDICOOT. *Perameles obesula*.

Skull, adult. Van Diemen's Land?

Skull, young. Van Diemen's Land?

The BROWN-BELLIED BANDICOOT. *Perameles fusciventer*.

* Skull. Perth, West Australia. From Mr. Gould's collection.

PERAGALEA, *Gray*.

The PERAGALEA. *Peragalea lagotis*.

Skull, limbs and caudal vertebræ. Swan River. Presented by Mr. J. Baker.

PERACYON, *Gray*.

The TASMANIAN WOLF. *Peracyon cynocephalus*.

Skull. Van Diemen's Land? From Mr. Gould's collection.

DASYURUS, *Geoff.*

GEOFFROY'S DASYURE. *Dasyurus Geoffroyii*.

* Skull. West Australia.

* Skull. West Australia.

The THUMBED DASYURE. *Dasyurus hallucatus*.

* Skull. Port Essington. From Mr. Gould's collection.

The DASYURE. *Dasyurus viverrinus*.

Skull. New South Wales.

The DASYURE. *Dasyurus*———?

Skull, male. From Mr. Gould's collection.

PHASCOGALE, *Temm.*

The PHASCOGALE. *Phascogale penicillata*.

* Skull. South Australia. Presented by the Hon. Captain G. Grey.

Skull. From Mr. Gould's collection.

The ELEGANT PHASCOGALE. *Phascogale calurus*.

* Skull. Williams River, West Australia. From Mr. Gould's collection.

The THICK-TAILED POUCHED MOUSE. *Phascogale crassicaudatus*.

* Skull. Williams River. West Australia. From Mr. Gould's collection.

The LARGE-TAILED POUCHED MOUSE. *Phascogale macrourus*.

Skull. Darling Downs. From Mr. Gould's collection.

ANTECHINUS, *Macl.*

The PENCILLED POUCHED MOUSE. *Antechinus apicalis*.

- * Skull. Australia. From Mr. Brandt's collection.
- * Skull. Victoria Plains. From Mr. Gould's collection.
- Skull. West Australia. From Mr. Gould's collection.
- Skull. West Australia. From Mr. Gould's collection.

GREY'S POUCHED MOUSE. *Antechinus affinis*.

- * Skull. Perth, West Australia. From Mr. Gould's collection.
- * Skull. Perth, West Australia. From Mr. Gould's collection.

The WHITE-BELLIED POUCHED MOUSE. *Antechinus leucogaster*.

- * Skull. Victoria Plains. From Mr. Gould's collection.

The YELLOW-FOOTED POUCHED MOUSE. *Antechinus flavipes*.

- * Skull. South Australia. Presented by C. D. E. Fortnum, Esq.
- * Two Skulls. South Australia. Presented by the Hon. Captain G. Grey.

The WHITE-FOOTED POUCHED MOUSE. *Antechinus leucopus*.

- * Skull. Van Diemen's Land.
- * Skull. King George's Sound. From Mr. Parzaduki's collection.

The POUCHED MOUSE. *Antechinus*—?

- Skull. West Australia. From Mr. Gould's collection.
- Skull. West Australia. From Mr. Gould's collection.

MYRMECOBIUS, *Waterh.*

The MYRMECOBIUS. *Myrmecobius fasciatus*.

- * Skull. Swan River. From Mr. Gould's collection.

DIDELPHIS, *Linn.*

OPOSSUM. *Didelphis*—?

- Skull. Presented by Captain Sutch.

AZARA'S OPOSSUM. *Didelphis Azaræ*.

- * Skull, young. Bolivia. From Mr. Bridge's collection.

CRAB-EATING OPOSSUM. *Didelphis cancrivora*.

- * Skull. Brazils.

PHILANDER, *Brisson.*

CINEREOUS OPOSSUM. *Philander cinereus*.

- Skull. South America.

The NAKED-TAILED OPOSSUM. *Philander nudicaudata*.

- * Skull. Brazils. From Mr. Brandt's collection.

* The QUICA. *Philander Quica*.

- Skull. Coban, Tropical America.

- The CRABEATER. *Philander Marsupialis*.
 * Skull. Tropical America.

THYLAMYS, Gray.

- The ELEGANT PAINTED MOUSE. *Thylamys elegans*.
 Skull. Chili. From Mr. Bridge's collection.
 * Skull. Chili. From Mr. Bridge's collection.
 * Skull. Chili. From Mr. Bridge's collection.

Fam. 5. PHOCIDÆ.

LEPTONYX, Gray.

- The FALSE SEA LEOPARD. *Leptonyx Weddellii*.
 * Skull. River Santa Cruz, East Coast of Patagonia. Presented by Captain Fitzroy.
 * Skull. River Santa Cruz, East Coast of Patagonia. Presented by Captain Fitzroy.
 * Skull. Antarctic Seas. Antarctic Expedition. Presented by the Admiralty. The specimen figured in the 'Voyage of the Erebus and Terror.'
 * Skull. Antarctic Seas. Antarctic Expedition. Presented by the Admiralty.

OMMATOPHOCA, Gray.

- ROSS'S ANTARCTIC SEAL. *Ommatophoca Rossii*.
 Skeleton. Antarctic Seas, Antarctic Expedition. Presented by the Admiralty.
 * Skull. Antarctic Seas, Antarctic Expedition. Presented by the Admiralty. The specimen figured in the 'Voyage of the Erebus and Terror.'

STENORHYNCHUS, Cuv.

- The SEA LEOPARD. *Stenorhynchus Leptonyx*.
 Skull. Antarctic Seas, Antarctic Expedition. Presented by the Admiralty. The specimen figured in the 'Voyage of the Erebus and Terror.'
 Skull. Antarctic Expedition. Presented by the Admiralty.
 Skeleton. Port Nicholson, New Zealand. Presented by Dr. Frederick Knox.
 Skull. Antarctic Seas. Antarctic Expedition. Presented by the Admiralty.
 Skull and bones of body. Antarctic Seas, Antarctic Expedition. Presented by the Admiralty.

LOBODON, Gray.

The ANTARCTIC SEAL. *Lobodon carcinophaga*.

- * Skull, three parts grown. Antarctic Seas, Antarctic Expedition. Presented by the Admiralty. The specimen figured in the 'Voyage of the Erebus and Terror.'
- Skull, adult. Antarctic Seas, Antarctic Expedition. Presented by the Admiralty.
- Skull, adult. Antarctic Seas, Antarctic Expedition. Presented by Lieutenant Smith, R.N.
- Skull, adult. Antarctic Seas, Antarctic Expedition. Presented by Lieutenant Smith, R.N.
- Skull, adult. Antarctic Seas, Antarctic Expedition. Presented by Lieutenant Smith, R.N.
- Skull, young. Antarctic Seas, Antarctic Expedition. Presented by the Admiralty.

PHOCA, Linn.

BEARDED SEAL. *Phoca barbata*.

Skeleton, length 8 feet. North Sea. From Mr. Brandt's collection.

The ATAK or HARP SEAL. *Phoca Grænlandica*.

- Skull, adult. Greenland. From Dr. Moller's collection.
- Skull, adult. Greenland. From Dr. Moller's collection.
- Skull, adult. Greenland. From Dr. Moller's collection.
- Skull, adult. Greenland. From Dr. Moller's collection.
- * Skull, adult. Greenland. From Dr. Moller's collection.

CALOCEPHALUS, Cuv.

The SEAL. *Calocephalus vitulina*.

Skeleton. From Dr. Mantell's collection.

Skull. Greenland.

* Skull.

HALICHÆRUS, Horchs.

The GRAY SEAL. *Halichærus gryphus*.

- * Skull, adult. Fern Island.
- * Skull, young. Fern Island. Presented by J. P. Selby, Esq.

TRICHECHUS, Linn.

The MORSE or WALRUS. *Trichechus Rosmarus*.

Skull.

Skull. Presented by General T. Hardwicke.

Skull, young.

Tooth, longitudinally divided.

CYSTOPHORA, Nilson.

The CLAPNUTZ or CRESTED SEAL. *Cystophora cristata*.

Skull, adult. Greenland.

- * Skull, adult. Greenland.
- * Skull, adult. Greenland.
- Skull, lower-jaw wanting.
- Skull, half-grown.
- Skull, very young.

MORUNGA, Gray.

- The SEA ELEPHANT. *Morunga Elephantina.*
- Skull, very young.
 - * Skull and Skeleton. Antarctic Seas, Antarctic Expedition. Presented by the Admiralty. The specimen figured in the 'Voyage of Erebus and Terror.'
 - Skull. Antarctic Seas, Antarctic Expedition. Presented by the Admiralty.

OTARIA, Peron.

- The SEA LION. *Otaria jubata.*
- * Teeth of lower-jaw. South America. Presented by Captain Fitzroy, R.N.
 - * Skull. South Australia. Presented by Captain Grey.

ARCTOCEPHALUS, Cuv.

- DR. HOOKER'S EARED SEAL. *Arctocephalus Hookerii.*
- Skull and Skeleton, adult. Falkland Islands, Antarctic Expedition. Presented by the Admiralty. The specimen figured in the 'Voyage of the Erebus and Terror.'
 - Skull and Skeleton. Antarctic Expedition. Presented by the Admiralty.
 - * Skull, imperfect. Antarctic Expedition. Presented by the Admiralty.
 - * Skull, imperfect. Antarctic Expedition. Presented by the Admiralty.
- The AUSTRALIAN EARED SEAL. *Arctocephalus lobatus.*
- * Teeth, adult. Houtman's Abrolhos, Australia. From Mr. Gould's collection. The specimen figured in the 'Voyage of the Erebus and Terror.'
 - * Lower-jaw. Houtman's Abrolhos, Australia. From Mr. Gould's collection.
 - * Teeth, very young. Houtman's Abrolhos, Australia. From Mr. Gould's collection.
 - * Teeth, very young. Houtman's Abrolhos, Australia. From Mr. Gould's collection.

Order III. CETE.

Fam. 1. BALENIDÆ.

BALÆNA, Ray.

The NORTHERN WHALE. *Balæna mysticetus*.
Skull and lower jaw, fig. Cuv. Oss. v. t. 25. fig. 9—11. North Sea.

The CAPE WHALE. *Balæna australis*.
Bone of fore-arm. Cape of Good Hope.

BALÆNOPTERA, Lacep.

The SMALL-HEADED FINNER. *Balænoptera microcephalus*.
Skeleton. South Greenland. From Mr. Brandt's collection.

Fam. 2. CATODONTIDÆ.

CATODON, Arted.

The SPERM WHALE. *Catodon macrocephalus*.
Skull, fig. Cuv. Oss. v. 6, 24. fig. 1—5. North Sea.
Lower-jaw. Presented by Colonel Cobb.
Lower-jaw of young.
Ear-bones. Presented by H. H. Russell, Esq.
Teeth, various.
Section of a tooth.

Fam. 3. DELPHINIDÆ.

HYPEROODON, Illiger.

The THICK-HEAD HYPEROODON. *Hyperoodon latifrons*.
Skull and Skeleton, imperfect. Orkney.

PLATANISTA, Gray.

The SUSUE. *Platanista Gangetica*.
Skull, end of nose nearly straight, young. India. (Ganges).
Skull, end of nose, recurved. India. Presented by Gibson Rowe, Esq.

STENO, Gray.

The LARGE-TOOTHED DOLPHIN. *Steno frontatus*.
Part of the upper-jaw, teeth large.
Bones of the ear. India. Presented by General Thomas Hardwicke.
Skull. India.
Skull.
Skull.

The COMPRESSED-BEAKED DOLPHIN. *Steno compressus*.
Skull. The specimen figured in the 'Voyage of the Erebus and Terror.'

Two Skulls.

Skull. South Sea. Antarctic Expedition. Presented by the Admiralty.

The SHARP-BEAKED DOLPHIN. *Steno attenuatus*.

Skull. India? Presented by Mrs. Ince.

Skull. The specimen figured in the 'Voyage of the Erebus and Terror.'

Skull. 9° N. Lat. Presented by A. Pearson, Esq.

DELPHINUS, *Linn.*

The DOLPHIN. *Delphinus Delphis*.

Skull, large.

Skull, smaller. Presented by Allan Cunningham, Esq., F.L.S.

Skull. St. Helena. Presented by A. Pearson, Esq.

Skull. Presented by John Joseph Bennett, Esq., F.R.S.

Twelve Skulls. ———

The SMALL-HEADED DOLPHIN. *Delphinus microps*.

Skull. ———? From the Haslar Museum. The specimen figured in the 'Voyage of the Erebus and Terror.'

The CLYMENE. *Delphinus Clymene*.

Skull. ———?

The STYX. *Delphinus Styx*.

Skull, not in good state. ———? ———?

The DORIS. *Delphinus Doris*.

Skull. ———? The specimen figured in the 'Voyage of the Erebus and Terror.'

Skull. From Haslar Hospital.

The BOTTLE-NOSED WHALE. *Delphinus Tursio*.

Skull and teeth, bad state. From the Montague Museum.

Skull, bad state. From Dr. Mantell's collection.

Skull, bad state, semi-fossil, the cliff, Herne Bay. Presented by J. S. Bowerbank, Esq.

The DUSKY DOLPHIN. *Delphinus obscurus*, *Gray*.

Skull. Cape of Good Hope?

Skull. Cape of Good Hope.

The CYMODOCE. *Delphinus Cymodoce*.

Skull. ———? The specimen figured in the 'Voyage of the Erebus and Terror.'

The EURYNOME. *Delphinus Eurynome*.

Skull. North Sea? The specimen figured in the 'Voyage of the Erebus and Terror.'

The METIS. *Delphinus Metis*.
Skull. The specimen figured in the 'Voyage of the Erebus and Terror.'

LAGENORHYNCHUS, Gray.

The ASIA. *Lagenorhynchus Asia*.
Skull, wanting teeth.

The ELECTRA. *Lagenorhynchus Electra*.
Skull. The specimen figured in the Voyage of the Erebus and Terror.'

The WHITE-SIDED BOTTLENOSE. *Lagenorhynchus leucopleurus*.

Skeleton. Greenland. From Mr. Brandt's collection. The specimen figured in the 'Voyage of the Erebus and Terror.'

ORCA, Randal.

The KILLER. *Orca gladiator*.
Skull. Coast of Essex. From Mr. Cross's collection.

The SMALL KILLER. *Orca intermedia*.
Skull. ———? The specimen figured in the 'Voyage of the Erebus and Terror.'

GLOBIOCEPHALUS, Lesson.

The PILOT DOLPHIN. *Globiocephalus melas*.
Skull. Orkneys. Presented by Professor Traill.
Lower-jaw, half-grown ———?

GRAMPUS, Gray.

The RAM DOLPHIN. *Grampus Cuvieri*.
Skull. Isle of Wight. Presented by the Rev. C. Bury.
Lower-jaw. Presented by the Haslar Hospital Museum.

PHOCÆNA, Gray.

The PORPESSE. *Phocæna communis*.
Skull. From Dr. Mantell's collection.
Four vertebræ.

NEOMERIS, Gray.

The FINLESS PORPESSE. *Meomeris Phocænoides*.
Skull. Indian Ocean. From the Paris Museum.

BELUGA, Gray.

The BELUGA. *Beluga catodon*.
Skeleton, length 15 feet. Greenland.
Skull. Greenland.

KING'S BELUGA. *Beluga Kingii*.
Skull. New Holland. Presented by Capt. P. P. King, R.N.

MONODON, *Fab.*

The NARWHAL. *Monodon Monoceros*.
The Tooth. North Sea.
Skull, female, not in good state. North Sea.

Fam. 3. MANATIDÆ.

MANATUS, *Rond.*

The MANATEE. *Manatus australis*.
Skull. South America?

Fam. 4. HALICORIDÆ.

HALICORE, *Illiger.*

The DUGONG. *Halicore Dugung*.
Skull, adult. India. Presented by Walter Elliott, Esq.
Two upper-jaws. North-east Coast of New Holland. Presented
by J. B. Jukes, Esq.

Order IV. GLIRES.

Fam. 1. MURIDÆ.

The BANDICOOT or PIG RAT. *Mus Bandicota*.
Skull. Madras. Presented by Walter Elliott, Esq.
Four Skulls. India.
Skull. Nepal. Presented by B. H. Hodgson, Esq.

The NORWAY RAT. *Mus decumanus*.
Three Skulls. India. Presented by B. H. Hodgson, Esq.
Skull. England. Presented by G. R. Gray, Esq.
Skull. From Dr Mantell's collection.
Skull.

The RAT. *Mus*. ———
Skull. Chili. From Mr. Bridge's collection.

The CAPE RAT. *Mus Vereauxii*.
Skull. South Africa. From the Stockholm Museum.

ALEXANDRINE RAT. *Mus Alexandrinus*.
* Skull. Port Natal, South Africa. From the Stockholm
Museum.

The LONG-TAILED RAT. *Mus*. ———
Skull. Egypt. Presented by Dr. Christie.
Skull. India?
Skull. Cape of Good Hope.
Skull. India.
Skull. India.

The **INDIAN RAT.** *Mus Indicus.*
 Three Skulls. India. Presented by B. H. Hodgson, Esq.
 Skull. Cape of Good Hope.
 Skull. India. Presented by the East India Company.
 Skeleton. Presented by General T. Hardwicke.

* Skull.

RAT. *Mus.*———?
 Skull.———?

The **BLACK RAT.** *Mus Rattus.*
 Two Skulls, female.
 * Skull, female. Cambridgeshire.
 Skull. Presented by Mr. J. Baker.
 Skull. Epping. Presented by H. Doubleday, Esq.
 Skeleton. Epping. Presented by H. Doubleday, Esq.

The **RAT.** *Mus Rattus?*
 Skull. Chili. From Mr. Bridge's collection.

The **MOUSE.** *Mus musculus.*
 Skeleton.
 Skull. London. Presented by Mr. J. Baker.
 Skull. Epping. Presented by John Ray, Esq.
 Skull.

The **AUSTRALIAN MOUSE.** *Mus musculus.*
 * Skull. South Australia. Presented by Captain G. Grey.

The **WOOD MOUSE.** *Mus sylvaticus.*
 Skull. England. Presented by J. Ray, Esq.

WATERHOUSE'S MOUSE. *Mus Novæ Hollandiæ.*
 Skull. From Mr. Gould's collection.

The **WHITE-FOOTED MOUSE.** *Mus albipes.*
 Skull. Abyssinia. From Dr. Ruppell's collection.

The **ORIENTAL MOUSE.** *Mus orientalis.*
 Skull. Egypt. From the Stockholm Museum.

The **MINUTE MOUSE.** *Mus minutoides.*
 Skull. South Africa. From the Stockholm Museum.

The **NATAL MOUSE.** *Mus Natalensis.*
 Skull. Port Natal. From the Stockholm Museum.

The **JAPAN MOUSE.** *Mus speciosus.*
 * Skull. Japan.

The **GAMBIAN MOUSE.** *Mus Gambianus.*
 Skull. Gambia. Presented by the Earl of Derby.

The **DELICATE MOUSE.** *Mus delicatulus.*
 * Skull. Port Essington. From Mr. Gould's collection.

The **WHITISH MOUSE**. *Mus albo-cinereus*.

- * Skull. Perth, West Australia.
- * Skull. Perth, West Australia.
- * Skull. Swan River. Presented by Dr. Richardson.
- Skull. West Australia. From Mr. Gould's collection.
- Skull. West Australia. From Mr. Gould's collection.
- Skull. West Australia. From Mr. Gould's collection.

The **MOUSE**. *Mus*.

- * Skull. Victoria Plains, West Australia.
- * Skull. Victoria Plains, West Australia.
- Four Skulls. West Australia. From Mr. Gould's collection.
- Skull. West Australia. From Mr. Gould's collection.
- * Two Skulls. West Australia. From Mr. Gould's collection.

The **LAKE ALBERT MOUSE**. ———?

- Skull. Lake Albert. From Mr. Gould's collection.

The **MOUSE**. *Mus* ———?

- Skull. King George's Sound. From Mr. Gould's collection.
- Skull. King George's Sound. From Mr. Gould's collection.

The **MOUSE**. *Mus* ———?

- * Skull. Victoria Plains, West Australia.
- * Skull. Victoria Plains, West Australia.

The **MOUSE**. *Mus* ———?

- * Skull. Swan River. Presented by Dr. Richardson.

LINEOLATED MOUSE. *Mus lineolatus*.

- Skull. Darling Downs. From Mr. Gould's collection.

The **MOUSE**. *Mus* ———?

- * Skull. Victoria Plains, West Australia.
- * Skull. Victoria Plains, West Australia.
- * Skull. Swan River. Presented by Dr. Richardson.
- * Skull. South Australia. Presented by Captain G. Grey.
- Skull. West Australia. From Mr. Gould's collection.

The **PENCILLED RAT**. *Mus penicillatus*.

- * Skull. New Holland. From Mr. Gould's collection.

The **BROWN-FOOTED MOUSE**. *Mus fuscipes*.

- * Skull, var. South Australia. Presented by Captain G. Grey.
- * Skull, var. South Australia. Presented by Captain G. Grey.
- Skull. Darling Downs. From Mr. Gould's collection.
- Skull, imperfect? Australia.

The **MOUSE**. *Mus* ———?

- Skull. India. Presented by W. Elliot, Esq.
- Skull. India. Presented by W. Elliot, Esq.

LAGGADE, *Gray*.

The BUDUGA. Laggade Buduga.

Skull. India. Presented by W. Elliot, Esq.

Skull. India. Presented by W. Elliot, Esq.

GOLUNDA, *Gray*.

The MELTADA. Golunda meltada.

Skull. India. Presented by W. Elliot, Esq.

Skull. India. Presented by W. Elliot, Esq.

Skull. India. Presented by W. Elliot, Esq.

Skull. India. Presented by W. Elliot, Esq.

Skull. India. Presented by W. Elliot, Esq.

The GOLUNDA. Golunda Elliotti.

Skull. India. Presented by W. Elliot, Esq.

The SMALL-TOOTHED MOUSE. Golunda microdonta.

Skull. India. Presented by W. Elliot, Esq.

Skull. India. Presented by W. Elliot, Esq.

* Skull. Cape of Good Hope.

The BARBARY MOUSE. Golunda Barbara.

* Skull. North Africa.

NESOKIA, *Gray*.

The KOK. Nesokia Kok.

Skull. Nepal. Presented by B. H. Hodgson, Esq.

Skull. India.

Skull. India.

* Skull. India.

The WATER NESOKIA. Nesokia hydrophila.

Skull, imperfect. India. Presented by B. H. Hodgson, Esq.

Skull, imperfect. India. Presented by B. H. Hodgson, Esq.

HODGSON'S MOUSE, Nesokia Hodgsonii.

* Skull, young. Nepal. Presented by B. H. Hodgson, Esq.

HARDWICKE'S NESOKIA. Nesokia Hardwickii.

Lower-jaws. India. Presented by General T. Hardwicke.

HAPALOTIS, *Licht*.

The LARGE-EARED HAPALOTIS. Hapalotis macrotis.

* Skull. Australia.

* Skull. Moore's River, West Australia.

Skull. South Australia. Presented by Captain G. Grey.

MITCHELL'S HAPALOTIS. Hapalotis Mitchellii.

Skull. West Australia. From Mr. Gould's collection.

The LONG-TAILED HAPALOTIS. *Hapalotis longicaudata*.
* Skull. Victoria Plains.

* Skull.

The RABBIT RAT. *Hapalotis albipes*.
Skull. Adelaide. Presented by C. D. E. Fortnum, Esq.
Skull. South Australia. Presented by Captain G. Grey.
Skull. South Australia. From Mr. Gould's collection.

RICHARDSON'S HAPALOTIS. *Hapalotis Richardsonii*.
* Skull. Swan River. Presented by S. Richardson, M.D.

The MURINE HAPALOTIS. *Hapalotis murinus*.
Skull. Lake Albert, South Australia. From Mr. Gould's collection.

GOULD'S RABBIT RAT. *Hapalotis Gouldii*.
Skeleton. Port Essington. From Mr. Gould's collection.

HAPALOTIS. *Hapalotis* ———?
* Skull. South Australia. Presented by Captain G. Grey.
Skull. Darling Downs. From Mr. Gould's collection.

PHYLLOTIS, *Waterh.*

DARWIN'S MOUSE. *Mus (Phyllotis) Darwinii*.
* Skull. Chili. From Mr. Bridge's collection.
* Skull. Chili. From Mr. Bridge's collection.
* Skull. Chili. From Mr. Bridge's collection.
* Teeth. Chili. From Mr. Bridge's collection.
Skull. Chili. From Mr. Bridge's collection.

The BOLIVIAN MOUSE. *Mus (Phyllotis) Boliviensis*.
* Skull. Bolivia. From Mr. Bridge's collection.

The MOUSE. *Mus (Phyllotis)* ———?
* Skull. Bolivia. From Mr. Bridge's collection.
* Skull. Bolivia. From Mr. Bridge's collection.

The MOUSE. *Mus* ———?
* Skull. Bolivia. From Mr. Bridge's collection.

The MOUSE. *Mus* ———
Skull. Chili. From Mr. Bridge's collection.

ABROTHRIX, *Waterh.*

The LONG-HAIRED MOUSE. *Mus (Abrothrix) longipilis*.
Skull. Chili. From Mr. Bridge's collection.
Skull. Chili. From Mr. Bridge's collection.
Skull. Chili. From Mr. Bridge's collection.

The LONG-HAIRED MOUSE. var. *Mus (Abrothrix) longipilis?*
Skull. Chili. From Mr. Bridge's collection.

RENGERI'S MOUSE. *Mus (Abrothrix) Rengeri*.
 Skull. Chili. From Mr. Bridge's collection.
 Skull. Chili. From Mr. Bridge's collection.

The SAND MOUSE. *Mus (Abrothrix) arenicola* ?
 Skull. Bolivia. From Mr. Bridge's collection.
 Skull. Bolivia. From Mr. Bridge's collection.
 Skull. Bolivia. From Mr. Bridge's collection.

The LONG-TAILED MOUSE. *Mus longicaudatus*.
 Skull. Chili. From Mr. Bridge's collection.
 Skull. Chili. From Mr. Bridge's collection.
 Skull. Chili. From Mr. Bridge's collection.
 Skull. Chili. From Mr. Bridge's collection.
 Skull. Chili. From Mr. Bridge's collection.

The TAZAMACA. *Mus Tazamaca*.
 Skull. Coban, Tropical America.

HESPEROMYS.

The GREAT-NAILED MOUSE. *Mus (Hesperomys) megalonyx*.
 * Skull. Chili. From Mr. Bridge's collection.
 * Skull. Chili. From Mr. Bridge's collection.

HOLOCHILUS, *Brandt*.

The SHARP-NOSED RAT. *Holochilus nasutus*.
 * Skull, imperfect. Bahia, South America.
The BRAZILIAN RAT. *Holochilus Braziliensis*.
 * Skull and bones of body. Bahia.
 * Skull and bones of body. Bahia.

CRICETUS, *Cuv*.

The KATUGUNA. *Cricetus Songarus*.
 * Skull. Siberia.

The HAMSTER. *Cricetus frumentarius*.
 * Skull. Europe.

DENDROMYS, *A. Smith*.

The TREE MOUSE. *Dendromys typicus*.
 Skull. South Africa.

MERIONES, *F. Cuv*.

The KATSE. *Meriones Labradorius*.
 Skull. North America.

EURYOTIS, *Brandt*.

The VLEY MIRIS. *Euryotis irrorata*.
 * Skull. Caffraria, South Africa.

NEOTOMA, *Say*.

The NEOTOMA. *Neotoma floridana*.
Teeth of right lower-jaw.

SIGMODON, *Say*.

The SIGMODON. *Sigmodon* ———?
* Skull.

ARVICOLA, *Lacép*.

The WATER RAT. *Arvicola amphibius*.
* Skull. Altai Mountains.
Skull?
Skull?
Skull?

The GROUND RAT. *Arvicola terrestris*.

* Skull. Italy.

The BANK CAMPAGNOL. *Arvicola glareolus*.

* Skull. Isle of Wight. Presented by the Rev. C. Bury.
Skull. Epping. Presented by John Ray, Esq.

The CAMPAGNOL. *Arvicola arvalis*.

Skeleton. England?

Skull. England?

Skull. Epping. Presented by J. Ray, Esq.

The SAXIN. *Arvicola saxatilis*.

Skull. Siberia.

The CAMPAGNOL. *Arvicola* ———

* Skull. Europe? North America?

The MOUNTAIN ARVICOLE. *Arvicola monticola*.

Skull. Pyrenees.

The REDDISH CAMPAGNOL. *Arvicola rufescens*.

Skull. St. Gothard.

The ALPINE ARVICOLE. *Arvicola nivalis*.

* Skull. St. Gothard. From the Stockholm Museum.

Skull. St. Gothard. From the Stockholm Museum.

Skull. St. Gothard. From the Stockholm Museum.

The REDDISH-GRAY ARVICOLE. *Arvicola rufocanus*.

* Skull. Sweden. From the Stockholm Museum.

MYODES, *Pallas*.

The HUDSON'S BAY LEMMING. *Myodes Hudsonius*.

* Skull. Hudson's Bay. Presented by the Hudson's Bay Company.

CTENOMYS, Blauv.

- The COMB-CLAWED LEMMING. *Ctenomys Braziliensis*.
 Skull. Bolivia. From Mr. Bridge's collection.
 Skull. Bolivia. From Mr. Bridge's collection.
 Skull. Chili. From Mr. Bridge's collection.

CASTOR, Linn.

- The BEAVER. *Castor fiber*.
 Lower-jaw, right side. Europe.

MYOPOTAMUS, Comm.

- The COYPU. *Myopotamus Coypus*.
 Skull, adult. North America?
 * Skull, half-grown. North America?

FIBER, Cuv.

- The ONDATRA. *Fiber zibethicus*.
 * Skull, imperfect. North America.

HYDROMYS, Geoff.

- The HYDROMYS. *Hydromys chrysogaster*.
 Skull. Australia.

SCHIZODON, Waterh.

- The BROWN SCHIZODON. *Schizodon fuscus*.
 * Skull. Chili. From Mr. Bridge's collection.
 * Skull, imperfect. Chili. From Mr. Bridge's collection.

ABROCOMA, Waterh.

- BENNETT'S ABROCOMA. *Abrocoma Bennettii*.
 * Skull. Chili. From Mr. Bridge's collection.
 * Skull. Chili. From Mr. Bridge's collection.

PSAMMORYCTES, Poep.

- The BLACK-SAND RAT. *Psammoryctes ater*.
 Skull. Chili. From Mr. Bridge's collection.

OCTODON, Bennett.

- BRIDGE'S OCTODON. *Octodon Bridgesii*.
 * Skull. Chili. From Mr. Bridge's collection.
 * Skull. Chili. From Mr. Bridge's collection.
 * Skull. Chili. From Mr. Bridge's collection.

- The CUCURRITO or the DEGUS. *Octodon Degus*.
 Skeleton. Chili. From Mr. Bridge's collection.

Skull. Chili. From Mr. Bridge's collection.

* Skull. (white var.) Chili. From Mr. Bridge's collection.

* Skull. Chili. From Mr. Bridge's collection.

ECHIMYS, Geoff.

The RED-TAILED ECHIMYS. *Echimyus myosuroides*.

Skull. Tropical America, Bahia.

ASCOMYS, Geoff.

The EGYPTIAN ASCOMYS. *Ascomys dimidiatus*.

* Skull. Egypt. From the Stockholm Museum.

PETROMYS, A. Smith.

The ROCK MOUSE. *Petromys typicus*.

Skull. South Africa. From the South African Museum.

HYSTRIX, Linn.

The PORCUPINE. *Hystrix cristata*.

Skull. Xanthus. Presented by G. Scharf, Jun., Esq.

Skull, adult.

The SAYAL. *Hystrix leucurus*.

Two Skulls. India. Presented by B. H. Hodgson, Esq.
Bones of the body, without limbs.

ERETHIZON, F. Cuv.

The CAWQUAW or URSON. *Erethizon dorsatum*.

* Skull. Central America.

SPIGGURUS, F. Cuv.

The ORICO. *Spiggurus insidiosa*.

* Skull, young. Brazils. From Mr. Brandt's collection.

Skull, young. Brazils.

CHÆTOMYS, Gray.

The QUILLED RAT. *Chætomys subspinosus*.

* Skull. Brazils. From Mr. Brandt's collection. The specimen described in the Proc. Zool. Soc. for 1843, p. 21, and figured in the 'Voyage of the Sulphur,' pl. fig.

* Skull. Brazils. From Mr. Brandt's collection.

CERCOLABES, Brandt.

The COENDOO. *Cercolabes prehensilis*.

Skeleton. Brazils.

* Skull, young.

DASYPROCTA, Illiger.

The AGOUTI. *Dasyprocta Aguti*.

Skeleton. From Mr. Brandt's collection.

DOLICHOTIS, Desm.

The MARA. *Dolichotis Patachonicus*.

* Skull and imperfect Skeleton. South America. Presented by the Earl of Derby.

* Skull, young. Chili. From Mr. Bridge's collection.

CÆLOGENYS, F. Cuv.

The YELLOW PACA. *Cælogenys fulvus*.

Skull. Trinidad. Presented by Joseph Wright, Esq.

The SOOTY PACA. *Cælogenys Paca*.

Skull. South America.

Skull. Tropical America.

* Skull. Tropical America.

Skeleton. From Mr. Brandt's collection.

HYDROCHÆRUS, Brisson.

The CAPYBARA. *Hydrochærus Capybara*.

Skull, imperfect. Tropical America.

* Skull, adult. Tropical America.

CAVIA, Klein.

The CAVY OF GUINEA FIG. *Cavia Apercæa*.

Skeleton. From Mr. Brandt's collection.

Skull, female. London. Presented by Mr. J. Baker.

* Skull.

KERODON, F. Cuv.

The GRAY ROCK CAVY. *Kerodon Kingii*.

* Skull. Bolivia. From Mr. Bridge's collection.

* Skull. Chili. From Mr. Bridge's collection.

LEPUS, Linn.

The RABBIT. *Lepus cuniculus*.

Two Skulls, (tame var.) Nearly double the size of the wild ones. London. Presented by Mr. George.

Skull, wild. England. Presented by Mr. J. Baker.

Skull.

Skull.

Skull. Angora Var. Presented by Miss Inglis.

The IRISH HARE. *Lepus Hibernicus*.

* Skull. Ireland. Presented by the Earl of Derby.

The SCOTCH HARE. *Lepus variabilis*.

Skull. Scotland.

The INDIAN HARE. *Lepus macrotus*.

Two Skulls. India. Presented by B. H. Hodgson, Esq.

Skull. India. Presented by B. H. Hodgson, Esq.

Bones of the trunk. India. Presented by B. H. Hodgson, Esq.

Skull. India. Presented by B. H. Hodgson, Esq.

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Skull. India. Presented by W. Elliot, Esq.

The HARE. *Lepus timidus*.

Skull. Europe?

The HARE. *Lepus* ———

Skull. Nepal. Presented by B. H. Hodgson, Esq.

The ROCK HARE. *Lepus saxatilis*.

* Skull. Cape of Good Hope. Presented by the Earl of Derby.

The TOLAI. *Lepus Tolai*.

* Skull. Siberia. From Mr. Brandt's collection.

The JAPAN HARE. *Lepus brachyurus*.

Skull. Japan.

BENNETT'S HARE. *Lepus Bennettii*.

* Skull. California. Presented by Captain Sir Edward Belcher.

The MEXICAN HARE. *Lepus* ———

Skull. Mexico. Presented by Mr. J. Baker.

The TAPETI. *Lepus Braziliensis*.

* Skull. Para, South America. Presented by R. Graham, Esq.

The WAMPOOR or AMERICAN HARE. *Lepus Americanus*.

Skull. Hudson's Bay. Presented by the Hudson's Bay Company.

Skull, imperfect. Hudson's Bay. Presented by the Hudson's Bay Company.

The NORTHERN HARE. *Lepus borealis*.

Skull, female. Sweden. From Mr. Sundervall's collection.

The GRAY HARE. *Lepus canescens*.

* Skull. Sweden. From Mr. Sundervall's collection.

The REKALEK or POLAR HARE. *Lepus Arcticus*.
Skull. Greenland.
Skull. Greenland.

The BLACK HARE. *Lepus Altaicus?*
Skull. Russia. From Mr. Brandt's collection.

The EGYPTIAN HARE. *Lepus Ægyptius*.
Skull. Egypt.
* Skull. Sennaar.

LAGOMYS, *Geoff.*

The OGOTONA. *Lagomys ogotona*.
* Skull. Russia. From Mr. Brandt's collection.

The SADAJAC. *Lagomys alpinus*.
* Skull. Siberia. From Mr. Brandt's collection.

The CALLING HARE. *Lagomys pusillus*.
* Skull. Siberia. From Mr. Brandt's collection.

The REDDISH SULGAN. *Lagomys rufescens*.
* Skull. India, Rocky Hills, Cabul. Presented by the Hon.
East India Company.

* Skull, imperfect. India, Rocky Hills, Cabul. Presented by
the Hon. East India Company.

The INDIAN SULGAN. *Lagomys nipalensis*.
Skull, in a bad state. Nepal. Presented by B. H. Hodgson,
Esq.

Skull. Nepal. Presented by B. H. Hodgson, Esq.

LAGOTIS, *Bennett.*

CUVIER'S LAGOTIS. *Lagotis Cuvieri*.
* Skull. Chili. From Mr. Bridge's collection.
* Skull, imperfect. Chili. From Mr. Bridge's collection.

The CHINCHILLA. *Chinchilla laniger*.
Skull. Peru. Presented by W. Watson, Esq.
Skull. Peru.

LAGOSTOMUS, *Brookes.*

The VISCACHA. *Lagostomus trichodactylus*.
* Skull. Chili. From Mr. Bridge's collection.

HELAMYS, *F. Cuv.*

The SPRING HAAS. *Helamys Capensis*.
Teeth. Cape of Good Hope.

DIPUS, *Linn.*

The ROUGH-FOOTED GERBOA. *Dipus hirtipes*.
Skull. Sennaar. From the Stockholm Collection.

The GERBOA. *Dipus Ægyptius*.
Skull. Egypt.

ALACTAGA, *F. Cuv.*

The ALACTAGA. *Alactaga vexillaris*.
Skull. Siberia.

GERBILLUS, *F. Cuv.*

The MOUNTAIN GERBILLE. *Gerbillus montanus*.
Skull. Caffraria, South Africa.

The BLACK-TAILED GERBILLE. *Gerbillus melanurus*.
Skull. Abyssinia.

The INDIAN GERBILLE. *Gerbillus Indicus*.
Skull. Madras. Presented by W. Elliott, Esq.
Two Skulls. India. Presented by W. Elliott, Esq.

PSAMMOMYS, *Ruppell.*

The TAMARISC RAT. *Psammomys Tamariscus*.
* Skull. Songaria, Russia.

MYOXUS, *Schreb.*

The LOIR. *Myoxus glis*.
* Skull. France.
* Skull. France.

MUSCARDINUS, *Ray.*

The DORMOUSE. *Muscardinus avellanarius*.
Skull.
Skull.

ANOMALURUS, *Waterh.*

The SPINY-TAILED SQUIRREL. *Anomalurus Derbianus*.
Skull. Fernando Po. Presented by T. Thomson, Esq., R.N.

PTEROMYS, *Cuv.*

The JAPAN FLYING SQUIRREL. *Pteromys leucogenys*.
* Skull. Japan.

The KOVIAL OF ORANGE-SHOULDERED TAGUAN. *Pteromys magnificus*.
Skull, adult. Presented by B. H. Hodgson, Esq.
Skull, adult. Presented by B. H. Hodgson, Esq.
Skull, adult. Presented by B. H. Hodgson, Esq.

The GOLDEN-STREAKED TAGUAN. *Pteromys nobilis*.

* Skull, adult. Nepal. Presented by B. H. Hodgson, Esq.

The GRAY-HEADED FLYING SQUIRREL. *Pteromys caniceps*.

* Skull. Nepal. Presented by B. H. Hodgson, Esq.

The SPOTTED FLYING SQUIRREL. *Pteromys punctatus*.

* Skull. Malacca. Presented by Andrew Charlton, Esq.

SCIUROPTERUS, *F. Cuv.*

TURNBULL'S FLYING SQUIRREL. *Sciuropterus albo-niger*.

Two Skulls. India. Presented by B. H. Hodgson, Esq.
Skull.

The ASSAPAN. *Sciuropterus volucella*.

* Skull. North America.

The POLATOUCHE. *Sciuropterus volans*.

* Skull. Siberia.

* Skull. Altai Mountains, Russia.

SCIURUS, *Linn.*

The SQUIRREL. *Sciurus vulgaris*.

* Skull. var. *altaicus*. Siberia.

Two Skulls. England. Presented by Mr. Edward Gerrard.

Skull, young. France.

Skull, var. *Pyrenees*.

The CAROLINA SQUIRREL. *Sciurus Carolinensis*.

* Skull. North America, Wellington, Delaware. Presented by Henry Doubleday, Esq.

* Skull. North America, Missouri.

The TEXIAN SQUIRREL. *Sciurus Texianus*.

* Skull. Missouri, North America.

The SQUIRREL. *Sciurus* _____

* Skull. North America. "

The SQUIRREL, *Sciurus* _____

* Skull. North America.

The LONG-TAILED SQUIRREL. *Sciurus ephippium*.

* Skull. Borneo.

* Skull. Borneo.

The SQUIRREL. *Sciurus* _____

India?

KUHL'S SQUIRREL. *Sciurus pusillus*?

* Skull. Cayenne.

* Skull. New Guinea.

LIST OF OSTEOLOGICAL SPECIMENS.

- The HONDURAS SQUIRREL. *Sciurus Boothiæ*.
 * Skull. Honduras.
 * Skull. Honduras.
- COLLIE'S SQUIRREL. *Sciurus Collei*.
 * Two Skulls. Mexico.
- The GRAY-TAILED SQUIRREL. *Sciurus griseocaudatus*.
 * Skull. America. Presented by Captain Sir E. Belcher, R.N.
- Dr. STANGER'S SQUIRREL. *Sciurus Stangerii*.
 * Skull. Fernando Po. Presented by T. Thompson, Esq.
- The RED-ARMED SQUIRREL. *Sciurus rufo-brachium*.
 * Skull. Fernando Po. Presented by T. Thompson, Esq.
- The RED-FORKED SQUIRREL. *Sciurus Poensis*.
 * Skull. Fernando Po. Presented by T. Thompson, Esq.
- The RUDDY SQUIRREL. *Sciurus erythræus*.
 * Skull. India. Presented by the Earl of Derby.
 * Skull. India. Presented by the Earl of Derby.
- The BRAZILIAN SQUIRREL. *Sciurus estuans*.
 * Skull. Africa.
- The CEPATE. *Sciurus multicolor*.
 * Skull. South Africa. From the Stockholm Museum.
- The GAMBIA SQUIRREL. *Sciurus annulatus*.
 Skull. China.
- The BAYING. *Sciurus platani*.
 * Skull. Java.
- RAFFLES' SQUIRREL. *Sciurus Rafflesii*.
 Skull. India.
 Skull. India.
- The TUPAI. *Sciurus vittatus*.
 Skull. India?
- The PALM SQUIRREL. *Sciurus palmarum*.
 Skull. India. Presented by W. Elliot, Esq.
- The KHURREE. *Sciurus penicillatus*.
 * Skull. India.
- XERUS, *Ehren*.
- The AGIUMP. *Xerus setosus*.
 * Skull. West Africa.
 Skull.
- TAMIAS, *Illiger*.
- The HACKEE. *Tamias Lysteri*.



Skull. North America.

Skull. North America.

The SWISS. *Tamias striatus*.

* Skull. Altai Mountains. From Mr. Brandt's collection.

SPERMOPHILUS, *F. Cuv.*

The RED-CHEEKED SOUSLIK. *Spermophilus erythrogenys*.

* Skull. Siberia.

The SOUSLIK. *Spermophilus concolor*.

* Skull. Moldavia.

* Skull. Moldavia.

The SOUSLIK. *Spermophilus* ————

* Skull. Altai Mountains.

ARCTOMYS, *Schreb.*

The QUEBEC MARMOT OR WEENUSK. *Arctomys Empetra*.

* Skull. Missouri, North America.

Skull. Presented by — Simeon, Esq.

Skull. Presented by Mr. Edward Gerrard.

The WHISTLER. *Arctomys pruinosus*.

Skull, imperfect. Hudson's Bay. Presented by the Hudson's Bay Company.

The SHIPI OR CHUPI. *Arctomys Bobac*.

An imperfect Skull of adult. Thibet. Presented by B. H. Hodgson, Esq.

Skull without lower-jaw. Thibet. Presented by B. H. Hodgson, Esq.

The bones of the trunk and Skull. Thibet. Presented by B. H. Hodgson, Esq.

* Two Skulls, adult. Russia.

* Skull, young. Russia.

The THIBET MARMOT. *Arctomys Tibetanus*.

* Skull. Thibet. Presented by B. H. Hodgson, Esq.

SIPHENUS, *Brandt.*

The ZOKER. *Siphenus Aspalax*.

* Skull. Altai Mountains. From Mr. Brandt's collection.

* Skull. Altai Mountains. From Mr. Brandt's collection.

* Skull. Altai Mountains. From Mr. Brandt's collection.

GEORYCHUS, *Illig.*

The SILKY GROUND RAT. *Georychus holosericeus*.

* Skull. South Africa.

BATHYERGUS, Illiger.

- The COAST RAT OR SAND MOLE. *Bathyergus maritimus*.
 Skull, perfect. South Africa.
 Skull, perfect. South Africa.
 Skull, upper-jaw. South Africa.

SACCOPHORUS, Kuhl.

- The TUCAN. *Saccophorus Mexicanus*.
 * Skull. Mexico.

RHIZOMYS, Gray.

- The SUMATRAN BAMBOO RAT. *Rhizomys sumatrensis*.
 * Skull. Deccan.
 * Skull. Deccan.
 * Skull. Malacca. Presented by Andrew Charlton, Esq.
 The BAY BAMBOO RAT. *Rhizomys badius*.
 * Skull. Dageeling. Presented by Andrew Charlton, Esq.
 The ABYSSINIAN BAMBOO RAT. *Rhizomys macrocephalus*
 Part of the upper-jaw. Schoa, Abyssinia.

Order V. UNGULATA.

Fam. I. BOVIDÆ.

Bos, Linn.

- The Ox. *Bos Taurus*.
 Horns, very thick and light. Central Africa. Presented by
 Captain Clapperton, R.N. and Major Denham.
 Two separate horns, very large, used as powder-flasks. South
 Africa.
 Horns, very large.
 Head and horns of larger Zebu. Presented by Jacob Bell,
 Esq.
 Skull, young, (lower-jaw wanting).
 Two Skulls of domesticated cattle of Nepal, male and female.
 Presented by B. H. Hodgson, Esq.
 Bones of body. Nepal. Presented by B. H. Hodgson, Esq.

BUBALUS, H. Smith.

- The BUFFALO. *Bubalus Buffelus*.
 Horns, separate, thick, 48 inches long. India.
 Skull and horns. India.
 Horns, very long, separate, 78 inches.
 Skull and horns.
 Skull and horns.
 Horns, separate, slender. India.

Skull and horns.

Frontal bone and horns, short.

Skull, with horns, polished. Neilgheries. Presented by General Hardwicke.

Skull, with horns, domestic variety. India. Presented by B. H. Hodgson, Esq.

Two skulls with horns, wild variety. India. Presented by B. H. Hodgson, Esq.

A pair of broad elongated horns. Presented by B. H. Hodgson, Esq.

A pair of horns, very slender. Presented by B. H. Hodgson, Esq.

Skull, with horns, tame variety. India. Presented by B. H. Hodgson, Esq.

The ZAMOUSE. *Bubalus brachycerus, Gray.*

Skull and horns. Central Africa. Presented by Captain Clapperton, R.N. and Major Denham.

Skull and horns. Presented by Captain Clapperton, R.N. and Major Denham.

The CAPE BUFFALO. *Bubalus Caffer, Gray.*

Frontal bone and horns, young. South Africa.

Skull and horns. South Africa.

Skull and horns. South Africa.

ANOA, *Leach.***The ANOA. *Anoa depressicornis, H. Smith.***

Skull and horns. Celebes. Presented by General Hardwicke.

Skull and horns. Mauritius?

Skull and horns. Mauritius?

BIBOS, *Hodgs.***The GAYAL. *Bibos frontalis.***

Skull of the adult male. The Tarai. Presented by B. H. Hodgson, Esq.

Skull, half-grown, male. The Tarai. Presented by B. H. Hodgson, Esq.

Skull and some bones of fœtal specimen. Presented by B. H. Hodgson, Esq.

Skeleton, imperfect. Presented by B. H. Hodgson, Esq.

The GOUR. *Bibos Gaurus.*

Skull and horns of male. Nepal. Presented by B. H. Hodgson, Esq.

Skull and horns of female. Nepal. Presented by B. H. Hodgson, Esq.

Skull and horns.

- Skull and horns, with skin on face. India. Presented by
General Hardwicke.
Horns, separate, polished.
Horns, separate.
Horns, separate young.
Horns, single horn.
Horns, single horn.
Horns, single horn. Nepal. Presented by B. H. Hodgson,
Esq.
Skeleton, imperfect. Nepal. Presented by B. H. Hodgson,
Esq.

BISON.

- The AUROCHS OR LITHUANIAN BISON. *Bison Urus*.
Skeleton. Lithuania. Presented by the Emperor of Russia.

POEPHAGUS, *Gray*.

- The YAK. *Poephagus grunniens*.
Skull and horns.
Skeleton. Nepal. Presented by B. H. Hodgson, Esq.
Two skulls of male. Thibet. Presented by B. H. Hodgson,
Esq.
Skull of the female, with the horns bent forward at the tip.
Thibet. Presented by B. H. Hodgson, Esq.
Skull of the female. Thibet. Presented by B. H. Hodgson,
Esq.
Pair of horns of the male, of large size. Thibet. Presented by
B. H. Hodgson, Esq.
Pair of horns of the female, slender and bent horizontally. Thi-
bet. Presented by B. H. Hodgson, Esq.

OVIBOS, *Blainv.*

- The MUSK OX. *Ovibos moschatus*, *Blainv.*
Skull and horns.
Skull and horns, imperfect.

SAIGA, *Gray*.

- The COLUS OR SAIGA. *Saiga Tatarica*.
Horns, separate. Russia.
Two horns, separate.

KEMAS, *H. Smith*.

- The CHIRU. *Kemas Hodgsoni*.
Horns, separate. Himalaya. Presented by Major Honeywood.
Skull of male, with horns. Presented by B. H. Hodgson, Esq.
A single slender horn. Presented by B. H. Hodgson, Esq.

GAZELLA, H. Smith.

- The GUTTUROSE ANTELOPE. *Gazella gutturosa*.
 * Skull, female. Siberia. From Mr. Brandt's collection.
- The GAZELLE. *Gazella Dorcas*.
 Horns of male.
 Horns of male.
 Horns of male.
 Horns of male.
 Single horn of male.
 Single horn of male.
 Horns of female.
 Horns of female.
 Skull of female. Presented by Sir John Gardner Wilkinson.
 Horns of female.

The INDIAN GAZELLE OR CHIKARA. *Gazella Bennettii*.
 Horns of male. Presented by Dr. Turnbull Christie.

The SPRING BOCK OR TSEBE. *Gazella Euchore*.
 Horns. South Africa.
 Horns. South Africa.
 Skull and horns. South Africa. Presented by W. Burchell,
 Esq., L.L.D.
 Horns on frontal bone.

ANTILOPE, Pallas.

The PALLAH OR BETJUAN. *Antilope melampus*.
 Horns. South Africa. Presented by Dr. Burchell.

CERVICAPRA, Blainv.

The SASIN OR INDIAN ANTELOPE. *Cervicapra bezoartica*.
 Three bases of skulls and horns. India.
 Skull and horn. India.
 Skull and horn. India.
 Skull and horn. India.
 Skull, with horns, of adult male. India. Presented by B. H. Hodgson, Esq.
 A pair of horns. Presented by B. H. Hodgson, Esq.
 One odd deformed horn. Presented by B. H. Hodgson, Esq.

NEOTRAGUS, H. Smith.

The MADOKA. *Neotragus Saltianus*.
 Base of skull, with horns. Abyssinia.

CEPHALOPHUS, H. Smith.

The RED-SIDED BUSH GOAT. *Cephalophus rufilatus*.
 * Skull. West Africa. Presented by the Earl of Derby.

The RED-CROWNED BUSH GOAT. *Cephalophus coronatus*.
Skull. West Africa. Presented by the Earl of Derby.

The BLACK ANTELOPE. *Cephalophus niger*.
* Leg-bones, imperfect.

The DUYKER BOCK. *Cephalophus mergens*.
* Skull. South Africa, Port Natal. From the Stockholm
Museum.

Skull, young male. South Africa.

Head and horns. South Africa. Presented by Dr. Burchell.

Skull and horns. South Africa.

The BLAMU BOCKJE. *Cephalophus monticolus?*
Skeleton.

TETRACERUS, Leach.

The CHOUKA OR CHOUSINGA. *Tetracerus quadricornis*.
Horns. North India.

Frontal bone, with horns.

Skull, with lower-jaw. India. Presented by B. H. Hodgson,
Esq.

ELEOTRAGUS, Gray.

The PEELI OR REHBOCK. *Eleotragus Capreolus*.
Head and horns. South Africa. Presented by Dr. Burchell.

The REET BOCK. *Eleotragus arundinaceus*.

* Skull, female. South Africa.

Horns. South Africa.

RUPICAPRA, H. Smith.

The CHAMOIS OR GEMS. *Rupicapra Tragus*.
Two Skulls and horns. Alps. Presented by General Hard-
wicke.

Three horns. Alps.

Skull, with horns. Alps. Presented by John Gould, Esq.

CAPRICORNIS, Ogilby.

The JHAAR OR THAR. *Capricornis bubalina*.

Frontal bone and horns. Nepal.

Frontal bone and horns. Nepal.

Skull, male. Nepal. Presented by B. H. Hodgson, Esq.

Skull, female. Nepal. Presented by B. H. Hodgson, Esq.

The CAMBING OCTAN. *Capricornis Sumatrensis*.

Frontal bone, with horns.

NEMORHEDUS, H. Smith.

The GORAL. *Nemorhedus Goral*.

Horns (of female?) very thin, far apart at the base.

Two Skulls of males. India. Presented by B. H. Hodgson, Esq.

Three imperfect Skulls of females. Presented by B. H. Hodgson, Esq.

Skeleton, imperfect. Presented by B. H. Hodgson, Esq.

ANTILOCAPRA, Ord.

The CABRIT or PRONGBÜCK. *Antilocapra americana*.

* Skull, female. Hudson's Bay. Presented by the Hudson's Bay Company.

AEGOCERUS, Desm.

The BLAUE BOCK. *Aegocerus leucophæus*.

Horns. South Africa.

Skull and horns, (of female?) horns slender.

Base of skull and horns. South Africa.

Horns (separate) short, thick. South Africa.

ORYX, Blainv.

The PASAN or GEMSBÖCK. *Oryx Gazella*.

Single horn. South Africa.

Horns on base. South Africa.

Horns on head. South Africa.

Horns on head. South Africa.

The ORYX. *Oryx leucoryx*.

Skull and horns. North Africa.

Single horn of young. North Africa.

Single horn. North Africa.

Skull, young. Sennaar.

ADDAX, Gray.

The ADDAX. *Addax nasomaculata*.

Horns (not united). North Africa. Presented by Captain Clapperton, R.N. and Major Denham.

* Skeleton, imperfect. Presented by the Earl of Derby.

ACRONOTUS, H. Smith.

The LICAMA or HARTEBEEST. *Acronotus Caama*.

Frontal bone and horns. South Africa.

Frontal bone and horns, wide apart, very rough. South Africa.

Horns, with the head stuffed. South Africa.

Frontal bone, with the skin on. South Africa.

Horns. South Africa.

The BUBALE. *Acronotus Bubalis*.

Skull and horns, one deformed. North Africa?

Frontal bone and horns. North Africa?

DAMALIS, H. Smith.

- The **SASSAYBI**. *Damalis lunatus*.
Horns. South Africa. Presented by Dr. Burchell.
- The **KORRIGUM**. *Damalis Senegalensis*.
Skull and horns. Bornou. Presented by Captain Clapperton,
R.N. and Major Denham.
- Skull and horns. Bornou. Presented by Captain Clapperton,
R.N. and Major Denham.
- The **BLOSS BOCK** or **BONTE BOCK**. *Damalis pygargus*.
Skull. Cape of Good Hope. Presented by Dr. Burchell.
Horns. South Africa.

CATOBLEPAS, Gray.

- The **GNOU**. *Catoblepas gnou, H. Smith*.
Frontal bone and horns. South Africa. Presented by J.
Willier, Esq.

STREPSICEROS, H. Smith.

- The **KUDU** or **COUDU**. *Strepsiceros kudu*.
Three pairs of horns. South Africa.
Frontal bone and horns. South Africa.
Two skulls and horns. South Africa.
Head and horns. Presented by the Trustees of the Hunterian
collection.
Single horn of young. South Africa.

BOSELAPHUS, H. Smith.

- The **IMPOPHOO** or **ELAND**. *Boselaphus Oreas*.
Three pairs of horns, separate. South Africa.
Frontal bone and horns. South Africa.

PORTAX, H. Smith.

- The **NYLGHAU**. *Portax picta*.
Skull. India.

TRAGELAPHUS, H. Smith.

- The **BOSCH BOCK**. *Tragelaphus sylvaticus*.
Base of skull, with horns.
Pair of horns, separate.

IBEX, Gray.

- The **STEINBOCK**. *Ibex alpinus*.
Base of skull and horns, very large.
Skull and horns.
Single horn, rather compressed.

The JÆLA. *Ibex Nubianus*.

Five pairs of horns. Egypt. Presented by James Burton, Jun., Esq.

Pair of horns, separate. North Africa.

Pair of horns, half-grown.

Skull and horns. Mount Sinai.

CAPRA, *Linn.*The ZACH or ZEBUDER. *Capra Caucasica*.

Skull and horns.

Skull and horns.

Variety of single horns, with only three very distant knots on front keel.

The GOAT. *Capra Hircus*.

Horns.

Horns.

Horns, elongate, erect.

Horns, expanded on the side.

Three skulls, var. Sinal, with the horns regularly bent back.

Nepal. Presented by B. H. Hodgson, Esq.

Skull, with horns, var. Chàngra or Shawl Goat. Thibet. Presented by B. H. Hodgson, Esq.

Skull and horns of adult. Presented by B. H. Hodgson, Esq.

Skull, with horns, var. Chappoo, *Capra Chungra*. Thibet. Presented by B. H. Hodgson, Esq.

A young skull, of same. Thibet. Presented by B. H. Hodgson, Esq.

A pair of separate horn sheaths. Thibet. Presented by B. H. Hodgson, Esq.

HEMITRAGUS, *Hodgson*.The WARRYATO. *Hemitragus Warryato*.

Head and horns of male and female. Neilgherries. Presented by Richard Partridge, Esq.

Head of female, without the sheath to the horns. Nepal.

The JHARAL or TEHR. *Hemitragus Jemlaicus*.

Head and horns. Nepal.

Base of skull, with horns. Nepal.

Skull and horns. Nepal.

Basal part of skull, and horns of female. Nepal.

Skull of a young female. Nepal. Presented by B. H. Hodgson, Esq.

Broken skull of a young male. Nepal. Presented by B. H. Hodgson, Esq.

Bones of body. Nepal. Presented by B. H. Hodgson, Esq.

Bones of body, young. Nepal. Presented by B. H. Hodgson, Esq.

Ovis, *Linn.*

- The BANBHERA OR BHAARAL. *Ovis Ammon.*
 Pair of horns of adult. Nepal. Presented by B. H. Hodgson, Esq.
 Pair of horns, adult. Nepal. Presented by B. H. Hodgson, Esq.
 Pair of horns of young ram. Nepal. Presented by B. H. Hodgson, Esq.
 Skull and horn of a half-grown ram. Nepal. Presented by B. H. Hodgson, Esq.
 Var. *Ovis Bärwâl.*
 Skull, imperfect, with half-grown horns. Nepal. Presented by B. H. Hodgson, Esq.
 Two pair of horns, of different ages. Nepal. Presented by B. H. Hodgson, Esq.
- The TIBETIAN AOUDAD. *Ovis Vignei.*
 Skull and horns. North India. Presented by the East India Company.
 Horns, separate. North India. Presented by the East India Company.
 Horn, single. North India. Presented by the East India Company.
- The PAMIR SHEEP. *Ovis Polii.*
 Horns, separate. Bokhara. Presented by the East India Company.
- The NAHOOR. *Ovis Nahura.*
 Base of skull of male, with horns. Nepal.
 Skull of a young male. Nepal. Presented by B. H. Hodgson, Esq.
 Various separate bones of body and limbs. Nepal. Presented by B. H. Hodgson, Esq.
- The AOUDAD. *Ovis tragelaphus.*
 Horns. North Africa.
 Horns. North Africa.
 Horns. North Africa.
 Horns.
- The SHEEP. *Ovis Aries.*
 Horns of many-horned variety.
 Horns of many-horned variety.
 Horns, small.
 Skull and horns of spiral horned variety.
 Skull and horns of spiral horned variety.
 Horns of spiral horned variety.
 Horns of spiral horned variety.

- Skull, with the horns united together at the base.
 Var. Huniah sheep.
 Skull of adult male, with horns. Nepal. Presented by B. H. Hodgson, Esq.
 Skull of young, without the cases of the horns. Nepal. Presented by B. H. Hodgson, Esq.
 Skull of young, without the cases of the horns. Nepal. Presented by B. H. Hodgson, Esq.
 Two skulls of many horned variety, horns of each side arising from the same base, showing they are produced by the division of the core. Nepal. Presented by B. H. Hodgson, Esq.
 Two skulls of four-horned varieties, with horns separate from one another at the base (each wanting one sheath). Nepal. Presented by B. H. Hodgson, Esq.
 Var. Dumba. Skull of a "Cabul Dumba Sheep." Presented by B. H. Hodgson, Esq.
 Var. Cago. Skull of adult, (without the sheath of the horns) imperfect. Presented by B. H. Hodgson, Esq.
 Skull of the young, hornless.
 Var. horns united at the base. Skull, with the horns cut off near the base. Presented by B. H. Hodgson, Esq.

CAMELOPARDALIS, Gmelin.

- The CAMELOPARD. *Camelopardalis Giraffa*.
 Skull of male. South Africa. Presented by Dr. Burchell.
 Skull of male. Presented by Dr. Burchell.

CAMELUS, Linn.

- The DROMEDARY. *Camelus Dromedarius*.
 Skull. From Dr. Mantell's collection.
 The CAMEL. *Camelus Bactrianus*.
 Skeleton. Persia.

LLAMA.

- The ALPACA. *Llama Pacos*.
 Skeleton. Chili. "
 Skull. Chili. From Mr. Bridges' collection.
 Two skulls. Chili.

- The VICUNA. *Lama Vicuna*.
 Skull, male. Bolivia. From Mr. Bridges' collection.
 Skull, female. Bolivia. From Mr. Bridges' collection.

MOSCHUS, Linn.

- The MUSK. *Moschus moschiferus*.
 Skull of male. Nepal. Presented by B. H. Hodgson, Esq.

- Skull of female. Nepal. Presented by B. H. Hodgson, Esq.
 Skeleton, wanting bones of feet. Presented by B. H. Hodgson, Esq.
 Skeleton, wanting bones of feet. Presented by B. H. Hodgson, Esq.
 Skeleton, wanting bones of feet. Presented by B. H. Hodgson, Esq.

The KABARGA OR SIBERIAN MUSK. *Moschus Sibiricus*.

- Skull of male. Siberia. From the Museum of the Royal Academy of St. Petersburg.
 Skull of female. Siberia. From the Museum of the Royal Academy of St. Petersburg.

The GOLDEN-EYED MUSK. *Moschus chrysogaster*.

- Skull. Nepal. Presented by B. H. Hodgson, Esq.
 Skull. Presented by B. H. Hodgson, Esq.

MEMINNA, *Gray*.

The MEMINNA OR PISSAY. *Meminna Indica*.

- Skull of adult. India.

HYEMOSCHUS, *Gray*.

The BOOMORAH. *Hyeomoschus aquaticus*.

- * Skull. The specimen described in the Ann. & Mag. Nat. Hist. vol. xvi. p. 350, 1845. Sierra Leone. Presented by the Earl of Derby.
 * Skull and scapular. Sierra Leone. Presented by the Earl of Derby.

CARIACUS, *Gray*.

The CARJACU. *Cariacus Virginianus*.

- Horns of young, simple. North America.
 Horns of adults, moderate sized, with two branches on upper edge of beam. North America.
 Horns of adult, large, with three branches on upper edge of beam.
 Horns larger and thicker, with five branches on upper edge of beam, inner basal branch very long and forked.
 Horns very large, with many branches on upper edge of beam, inner basal branch thick and forked. Mexico. From the Royal Society's Museum. (*Cervus mexicanus*).
 Single horn, like the preceding one, but anterior basal branch very long, produced, and an additional elongate branch from the lower edge of the middle of the beam. (*Cervus mexicanus*).
 Single horn, with the upper branches on the beam rather irregular, and three produced and elongate forked branches from the lower edge of the upper part of the beam. (*Cervus clavatus*).

- Skeleton. Knowsley. Presented by the Earl of Derby.
 Skull, male. Hudson's Bay. Presented by the Hudson's Bay Company.
 Skull, female. Hudson's Bay. Presented by the Hudson's Bay Company.
 Horns. Hudson's Bay. Presented by the Hudson's Bay Company.
 The WHITE-TAILED DEER. *Cariacus leucurus*.
 Skull. Hudson's Bay. Presented by the Hudson's Bay Company.
 Skull. Hudson's Bay. Presented by the Hudson's Bay Company.
 The MEXICAN CARJACOU. *Caridacus mexicanus*.
 * Skull. South America. Presented by the Earl of Derby.

COASSUS, Gray.

- The CUGUACU-ETE. *Coassus rufus*.
 Skeleton, male. From Mr. Brandt's collection.
 Skull. Para, South America. Presented by R. Graham, Esq.
 The CUGUACU-APARA. *Coassus nemorivagus*.
 Skull. Brazils.

MAZAMA, H. Smith.

- The GUAZUTI. *Mazama campestris*.
 Frontal bone and horns. Northern Patagonia. From Haslar Hospital Museum. (Captain Fitzroy's Expedition).
 The THICK-HORNED GUAZUTI. *Mazama? furcata*.
 Horns. India? South America?

CAPREOLUS, Brisson

- The ROEBUCK. *Capreolus Capræa*.
 Horns, adult. Scotland.
 Horns, second year. Scotland.
 Single horns. Scotland.
 Base of skull of adult, with horns. Scotland. Presented by General Hardwicke.
 Horns on skull (diseased) very warty. Scotland. Presented by Lord Willoughby d'Eresby.
 Skull, female.

CERVUS, Linn.

- The STAG or RED DEER. *Cervus Elaphus*.
 Horns, with two frontal antlers. England.

Horns; left divided into four long cylindrical branches, right with two frontal antlers, tip subpalmate; perhaps of *C. Canadensis*?

Horns, deformed. Germany.

Horns, deformed. Germany.

Horns, with a third horn on the right side. Germany.

Single horns, apex much branched. Germany.

Single horn, adult. Germany.

Single horn, adult. Germany.

Single horn, deformed, with only three branches. Germany.

Single horn, simple, compressed, notched at the tip. Germany.

Single deformed stunted horn. Germany.

Skull and horns. Presented by the Earl of Derby.

The WAPITI. *Cervus Canadensis*.

Horns, large. St. Diego, California. Presented by C. Pentland, Esq.

Horns, long, two lower branches near together. North America.

Horns small, two lower branches rather near. North America.

Horns, large, beams without the upper frontal branches, the tip of right horn subpalmate: (perhaps a different species).

The CASHMERE STAG. *Cervus Cashmerensis*, (*Falconer, MSS.*)

Skull and horns of male. Cashmere. Presented by H. Falconer, M.D.

Skull of female. Cashmere. Presented by H. Falconer, M.D.

The BARA SINHA OF MORL. *Cervus (Wallichii?) affinis*.

Pair of horns, very large size. Nepal. Presented by B. H. Hodgson, Esq.

DAMA, *Gray*.

The FALLOW DEER. *Dama vulgaris*.

Horns.

Horns, a distorted variety.

Head and horns, dark variety. (*Cervus mauricus, F. Cuv.*)

Horns, adult.

Horns, adult, a distorted variety.

Horns, adult.

Horns, adult.

RECERVUS, *Hodgson*.

The BAHRAINGA. *Recervus Duvauceλλii*.

Skull and horns of male. Nepal. Presented by B. H. Hodgson, Esq.

Skull and horns of male. Nepal.

Skull of a female. Presented by B. H. Hodgson, Esq.

Skull and horns of adult. Presented by B. H. Hodgson, Esq.

Skull and horns of adult. Presented by B. H. Hodgson, Esq.

Separate horns. Presented by B. H. Hodgson, Esq.
 Separate horns. Presented by B. H. Hodgson, Esq.

PANOLIA, Gray.

The **ROUND-HORNED PANOLIA OF SUNGNAI.** *Panolia Eedii.*
 Horns. India.
 A large pair of horns, cylindrical, and with two small snags near the tip. India. Presented by B. H. Hodgson, Esq.
 A smaller pair of horns, rather compressed, and with one large and two short snags near the tip. India. Presented by B. H. Hodgson, Esq.
 Skull and horns, with one large and one small snag near the tip. India.
 Skull and horns, with one large and two small snags near the tip. India.
 Skull and horns, with one small snag near the tip. India.
 The **BROAD-HORNED PANOLIA.** *Panolia platyceros.*
 Horns. India.

AXIS, H. Smith.

The **AXIS, CHITTRA OF CHAATUL.** *Axis maculata.*
 Horns on frontal bone, slender, elongate, warty. India.
 Horns on frontal bone, slender, elongate. India.
 Horns on frontal bone, slender, elongate, simple. India.
 Skull and horns of the normal state. Nepal. Presented by B. H. Hodgson, Esq.
 Horns of the usual form, with two snags near the base of the right and one on the left side. Nepal. Presented by B. H. Hodgson, Esq.
 Horns, with three small snags near the base and a short terminal beam. Nepal. Presented by B. H. Hodgson, Esq.
 Horns on frontal bone, elongate, and very warty. Nepal. Presented by B. H. Hodgson, Esq.
 Skull and horns. India.
 Horns on frontal. India. "
 Horns on frontal. India.
 Horns on frontal. India.
 Horns on frontal, smooth. India.
 Horns on frontal, very warty. India.
 Horns on frontal bone, with two snags near the base of the left and one on the right side. Nepal. Presented by B. H. Hodgson, Esq.
 Horns on frontal bone.

HYELAPHUS, *Sundev.*

- The LUGNA, PARR or SHGARIAH. *Hyelaphus porcinus*.
 Skull of the female. Nepal. Presented by B. H. Hodgson, Esq.
 Skull, with horns. Nepal. Presented by B. H. Hodgson, Esq.
 Horns, separate. Nepal. Presented by B. H. Hodgson, Esq.
 Skull, with horns. India.
 Horns on frontal bone. India.
 Horns, separate. India. Presented by General Hardwicke.
 Horns, separate. India. Presented by General Hardwicke.
 Horns, separate. India. Presented by General Hardwicke.
 Two horns, single, not forked at the tip.
 Skull and horns, var. frontal snag elongated and thick.

RUSA, *H. Smith.*

- The SAMBUR DEER. *Rusa Aristotelis*.
 Single horn. India. Exeter Change Menagerie. Presented by Edward Cross, Esq.
 Horns on frontal bone. India.
 Two single horns, upper branches more equal. India.
 Horns on frontal bone, like the last but thicker, heavier and more granular.
 Horns on frontal bone, like the last, but the left horn has a large posterior branch at the fork.
 Horns on frontal bone, like the last, but rather smaller, hinder branch of fork longest, the left one with a posterior branch in the middle. India. Presented by Mrs. Wright.
 Horns of frontal bone, like the last, but larger and without posterior branch.
 Horns of frontal bone, one-third smaller.
 Single horn, simple, from a castrated animal?
 Head and horns with skin. India. Presented by E. Cross, Esq.
 Head of a female. Himalaya.
 Skull of young male. Nepal. Presented by B. H. Hodgson, Esq.
 Skull of adult female. Nepal. Presented by B. H. Hodgson, Esq.
 Skull of young female. Nepal. Presented by B. H. Hodgson, Esq.
 Brocket horns on frontal. Nepal. Presented by B. H. Hodgson, Esq.
 Three pairs of horns, second year. Nepal. Presented by B. H. Hodgson, Esq.

Single horn of the first year.

Horns on frontal bone, hinder upper branch turned back.

Horns, very long, thick, with very short thick frontal and submedial branch on one.

Horns, apex forked. Himalaya. Presented by the Rev R. Everest.

Horns on frontal bone, apex simple. India.

A pair of horns. India. Presented by B. H. Hodgson, Esq.

A pair of very large thick horns, with rather long frontal snag, the left with a large posterior process. India. Presented by B. H. Hodgson, Esq.

A pair of very large thick horns, with rather long frontal snag. India. Presented by B. H. Hodgson, Esq.

Three pair of large horns, with moderate frontal, small, the hinder upper snag rather the longest. India. Presented by B. H. Hodgson, Esq.

A pair of similar, but rather slenderer and more elongate horns. India. Presented by B. H. Hodgson, Esq.

A pair of large horns, with rather elongated front snag, the front upper snag rather longest, the horns rather close together. India. Presented by B. H. Hodgson, Esq.

A pair of large horns, with very long frontal snags, the upper snag rather the longest. India. Presented by B. H. Hodgson, Esq.

A pair of horns, the right like the former, the left quite simple, subulate. India. Presented by B. H. Hodgson, Esq.

A pair of horns, one with a moderate and the other with a long frontal snag, the upper snag nearly equal. India. Presented by B. H. Hodgson, Esq.

A pair of rather slender more elongate horns, with moderate frontal and short upper snags. India. Presented by B. H. Hodgson, Esq.

A pair of horns, the beam not branched.

Var. 4. Kâlo Jarai. *Cervus heterocerus*.

A pair of the horns. India. Presented by B. H. Hodgson, Esq.

KUHL'S STAG. *Rusa kuhlii*.

Femur and Tibia. Java.

MUNTJACUS, *Gray*.

The KIJANG or MUNTJAC, KAKER or BARKING DEER. *Muntjacus vaginalis*.

Head of male and horns. Northern Circars.

Head and horns of male. Deccan. Presented by Colonel Sykes, F.R.S.

Skull and horns. Nepal. Northern Circars.

- Skull and horns. Nepal. Presented by B. H. Hodgson, Esq.
 Base of skull and horns. Nepal.
 Skull.
 Two skulls of a male, with horns, differently developed. Presented by B. H. Hodgson, Esq.
 Skull, female. Presented by B. H. Hodgson, Esq.
 A pair of large horns on shortish peduncles. Presented by B. H. Hodgson, Esq.
 A pair of small horns on very long slender peduncles. Presented by B. H. Hodgson, Esq.
 Vertebra, pelvis, and leg bones. Presented by B. H. Hodgson, Esq.

RANGIFER, *H. Smith.*

- The REIN DEER. Rangifer Tarandus.
 Skeleton. Presented by Sir T. M. Wilson, Bart.
 Skull, large, horns small, slender branches small subulate, middle branch largest.
 Skull and horns large, long, slender (*Cuv. Oss. Foss. t. 4, f. 20*); no basal branch to right horn.
 Skull and horns; horns, large, long, slender, apex broad, branched behind, no basal branch to right horn.
 Horns, middle sized, the lower branch of left elongate, forked; of right horn very broad, palmated. North America. Presented by Captain Sir John Franklin, R.N.
 Horns small, the lower and middle branch of right horn, confluent palmated. North America. Presented by Captain Sir John Franklin, R.N.
 Horns, large (*Cuv. Oss. Foss. t. 4, f. 17*), basal branch of left horn large palmated; of right smaller, lobed.
 Horns, large (*Cuv. Oss. Foss. t. 4, f. 9*), basal branch of left horn very large, palmated; of right, simple subulate. Siberia?
 Horns, long, elongated, slender, erect, lower branches elongate lobed, top broad lobed.
 Horn, middle sized (*Cuv. Oss. Foss. t. 4, f. 8*), lower branch of left horn simple; of right broad, palmated. North America. Presented by Captain Sir John Franklin, R.N.
 Horns, large, long, slender, upper back branches recurved. North America. Presented by Captain Sir John Franklin, R.N.
 Horns, large, long, slender (*Cuv. Oss. Foss. t. 4, f. 13*). Presented by Captain Sir John Franklin, R.N.
 Horns, very small, basal branch subulate, upper and medial branch bifid.
 Horns, large, with the basal branch of each horn dilated, palmated (*Cuv. Oss. Foss. t. 4, f. 17*). From Mr. Brooke's Museum.

Horns of the year. (*Cuv. Oss. Foss. t. 4, f. 1*). Knowsley. Presented by the Earl of Derby.

Horns of the year.

Horns, very large, with the head stuffed. Newfoundland.

ALCES, *H. Smith*.

The ELK. *Alces palmatus*.

Hoofs. Labrador.

Several pair of horns.

Hoof and shank bones.

Two single horns of young.

Horns, with the head stuffed. Russia. Presented by Edward Caley, Esq.

Single horn. Udoholm, Sweden. Presented by the Earl of Selkirk.

Fam. 2. EQUIDÆ.

EQUUS, *Linn*.

The HORSE. *Equus Caballus*.

Skull.

Skull, larger.

Skull of an English horse. Presented by B. H. Hodgson, Esq.

Pelvis. From Dr. Mantell's collection.

ASINUS, *Gray*.

The DSHIKKETEI or WILD ASS. *Asinus Hemionus*.

* Skull and bones of body. Asia. Presented by the Earl of Derby.

The ZEBRA. *Asinus Zebra*.

* Skeleton. South Africa.

Skull. South Africa.

Skull of male. Between Zebra and Ass.

Fam. 3. ELEPHANTIDÆ.

ELEPHAS, *Linn*.

The ELEPHANT. *Elephas Indicus*.

Skulls of Dauntelah and Mooknah varieties. Presented by J. Corse Scott, Esq. The specimens described by Mr. Corse, *Phil. Trans.* 1799, ii. 205.

Skeleton. India. Presented by Sir Jasper Nichols and General Thomas Hardwicke.

Tusks. Ceylon. Presented by H. R. H. the Duke of Sussex.

The base of two tusks of the skeleton. India.

LOXODONTA, *F. Cuv.*

- The AFRICAN ELEPHANT. *Loxodonta Africana*.
Tooth. South Africa. Presented by John Lee, L.L.D.
* Skull, young.

TAPIRUS, *Brisson.*

- The MBOREBI or TAPIR. *Tapirus terrestris*.
Skull. South America.
Skull. South America.
Skull. South America. Presented by J. Miers, Esq.
The KUDA, AYER or TENNU. *Tapirus Malayanus*.
Skeleton. Sumatra.

SUS, *Linn.*

- The BOAR. *Sus scrofa*.
Skull. Xanthus. Presented by Sir Charles Fellowes.
The NEILGERRY HOG. *Sus affinis*.
Skull. India, Neilgheries. From Mr. Turner's collection.
The CAPE BOAR. *Sus capensis*.
Skull. South Africa.
The INDIAN WILD BOAR. *Sus Indicus*.
Skull. India.
Skull. Presented by General Hardwicke.
Skull of the Wild Boar of the Plain, or Taray. Presented by B. H. Hodgson, Esq.
Skull of the Wild Boar of the Plain, or Taray. Presented by B. H. Hodgson, Esq.
Skull of adult. Presented by B. H. Hodgson, Esq.
Skull of adult. Presented by B. H. Hodgson, Esq.
A half-grown skull and three young specimens of the Wild Boar of the hills. Presented by B. H. Hodgson, Esq.
Skull of adult. Malabar.
The GAMBIAN HOG. *Sus Gambianus*.
Skull. Gambia.

BABIRUSSA, *F. Cuv.*

- The BABIRUSSA. *Babirussa alfurus*.
Skull. Malacca.
Skull. Malacca.
Skull. Malacca. Presented by General Hardwicke.
Skull. Tusks very much developed.

PHACOCÆRUS, *Cuv.*

- The VALKE VARK OF ENGALLO. *Phacochærus Africanus*.
 Skull, small, female? South Africa. Presented by J. C. Taunton,
 Esq.
 Skull, large, male? Cape de Verd. Presented by Thomas
 Tatum, Esq.

DICOTYLES, *Cuv.*

- The PECARI OF TAJACU. *Dicotyles Tajacu*.
 Skull of adult. Brazils.
 Skull of adult. Organ Mountains, Brazils.

- The TAGNICOTE. *Dicotyles labiatus*.
 * Skull. Brazils.
 Skull, young.

RHINOCEROS, *Linn.*

- The RHINOCEROS. *Rhinoceros unicornis*.
 Skull. India. Presented by C. Gascoïn, Esq.
 Skull of a just-born specimen. Nepal. Presented by B. H.
 Hodgson, Esq.
 Left side of a lower-jaw. Nepal. Presented by B. H. Hodgson,
 Esq.
 Skull. India?
 Skull. India?

HYRAX, *Herm.*

- The KLIP-DAS. *Hyrax capensis*.
 Skull.

- The ASHKOKO. *Hyrax Abyssinicus*.
 Skull. Abyssinia. Presented by J. Reid, Esq.
 Skull. Abyssinia. Presented by J. Burton, Esq.

HIPPOPOTAMUS, *Linn.*

- The ZEEKOE OR RIVER HORSE. *Hippopotamus amphibius*.
 Skull, adult. South Africa.
 The front of the lower-jaw of adult. South Africa.
 Tusk, very much elongated and curved.

Fam. 4. DASIPODÆ.

MANIS, *Linn.*

- The MANY-SHIELDED PHATOGON. *Manis multiscutata*.
 * Skull. West Africa.

The BADGERIT or BAJJERKEIT. *Manis pentadactyla*.
Some bones of half-grown animal. Nepal. Presented by B. H.
Hodgson, Esq.

DASYPUS, Linn.

The ARMADILLO. *Dasypus sexcinctus*.
* Skull. South America.
* Skull. South America.

TATUSIA, F. Cuv.

The APARA. *Tatusia tricincta*.
Skull. Bolivia. From Mr. Bridges' collection.

The PEDA. *Tatusia septemcincta*.
Skeleton. From Mr. Brandt's collection.
Skeleton. South America.
Skeleton, adult. South America.

The PITCHEY. *Tatusia minuta*.
* Skull. From Mr. Bridges' collection.

XENURUS, Wagler.

The TATOUAY. *Xenurus uncinatus*.
* Skull. South America.
* Skull. South America.
* Skull, young. South America.

PRIODONTES, F. Cuv.

The TATOU. *Priodontes gigas*.
Skeleton. From Mr. Brandt's collection.

TAMANDUA, Gray.

The TAMANDUA. *Tamandua tetradactyla*.
Skeleton. From Mr. Brandt's collection.

CYCLOTHURUS, Gray.

The ANT-EATER. *Cyclothurus didactylus*.
Skeleton, imperfect. Pernambuco. Presented by J. P. G.
Smith, Esq.

PLATYPUS, Shaw.

The MULLINGANG. *Platypus anatinus*.
Skeleton. From Dr. Mantell's collection.
Skull, male. Shoalaven, Australia. Presented by J. Macgillivray, Esq.

CHOLÆPUS, Illiger.

The UNAU. *Cholæpus didactylus*.

- * Skull, adult. Columbia.
- * Skull, half-grown.
- * Teeth.

BRADYPUS, Linn.

The GIPAREIOU. *Bradypus torquatus*.
Skeleton. From Mr. Brandt's collection.

The SLOTH or AI. *Bradypus tridactylus*.
Skull and imperfect skeleton. Pernambuco. Presented by J. P. G. Smith, Esq.

AVES.

Order I. ACCIPITRES.

Fam. 1. GYPÆTIDÆ.

GYPÆTOS, Storr.

The BEARDED VULTURE. *Gypætos barbatus*.
Two Sterna. Nepal. Presented by B. H. Hodgson, Esq.

Fam. 2. SARCORAMPHIDÆ.

SARCORAMPHUS, Dum.

The CONDOR VULTURE. *Sarcoramphus gryphus*.
Skull. From Mr. Warwick's collection.

Fam. 3. VULTURIDÆ.

GYPES, Sav.

The FULVOUS VULTURE. *Gyps fulvus*.
Skeleton. Presented by B. H. Hodgson, Esq.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.
Two Skulls. Nepal. Presented by B. H. Hodgson, Esq.
Sternum. Europe. From M. Lefevre's collection.

VULTUR, Linn.

The ARABIAN VULTURE. *Vultur monachus*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.
Two Skulls. Nepal. Presented by B. H. Hodgson, Esq.

Fam. 4. FALCONIDÆ.

BUTEO, *Cuv.*

- The COMMON BUZZARD. *Buteo vulgaris*.
 Sternum. England.
 Sternum. England. Presented by John Ray, Esq.
 Four Sterna. Europe. From M. Lefevre's collection.
 Sternum. (*F. mutans*). Europe. From M. Lefevre's collection.

- The LONG-LEGGED BUZZARD. *Buteo rufinus*.
 Two Sterna. Nepal. Presented by B. H. Hodgson, Esq.

ARCHIBUTEO, *Brehm.*

- The WHITE-BREADED BUZZARD. *Archibuteo strophiatius*.
 Sternum. Nepal. Presented by B. H. Hodgson, Esq.

· AQUILA, *Mähr.*

- The GOLDEN EAGLE. *Aquila chrysaetos*.
 Trachea. England.
 Skeleton. England.

- The IMPERIAL EAGLE. *Aquila imperialis*.
 Two Sterna. Nepal. Presented by B. H. Hodgson, Esq.

- BONELLI'S EAGLE. *Aquila Bonellii*.
 Three Sterna. Nepal. Presented by B. H. Hodgson, Esq.

- The ROUGH-FOOTED EAGLE. *Aquila nœvia*.
 Sternum. Nepal. Presented by B. H. Hodgson, Esq.

HALIASTUR, *Selby.*

- The PONDICHERRY EAGLE. *Haliastur indus*.
 Sternum. Nepal. Presented by B. H. Hodgson, Esq.

SPIZAETUS, *Vieill.*

- The CRESTED EAGLE. *Spizaetus lymnætus*.
 Sternum. Nepal. Presented by B. H. Hodgson, Esq.

- The BEAUTIFUL-CRESTED EAGLE. *Spizaetus nipalensis*.
 Two Sterna. Nepal. Presented by B. H. Hodgson, Esq.

CIRCAETUS, *Vieill.*

- The UNDEULATED BACHA. *Circaetus undulatus*.
 Sternum. Nepal. Presented by B. H. Hodgson, Esq.

PANDION, *Sav.*

The OSPREY. *Pandion haliaetus*.
 Sternum. Nepal. Presented by B. H. Hodgson, Esq.
 Three Sterna. Europe. From M. Lefevre's collection.

PONTOAETUS, *Kaup.*

The MARINE EAGLE. *Pontoaetus ichthyaetos*.
 Sternum. Nepal. Presented by B. H. Hodgson, Esq.

HALIÆTUS, *Sav.*

MACE'S EAGLE. *Haliæetus Maceii*.
 Two Sterna. Nepal. Presented by B. H. Hodgson, Esq.

FALCO, *Linn.*

The LANNER FALCON. *Falco lanarius*.
 Sternum. Nepal. Presented by B. H. Hodgson, Esq.

The JUGGER FALCON. *Falco jugger*.
 Sternum. Nepal. Presented by B. H. Hodgson, Esq.

The PEREGRINE FALCON. *Falco peregrinus*.
 Sternum. England. Presented by T. Ingall, Esq.
 Sternum. England. Purchased.
 Sternum. England. Presented by John Ray, Esq.
 Three Sterna. Europe. From M. Lefevre's collection.
 Two Sterna. Nepal. Presented by B. H. Hodgson, Esq.

The RED-NEPED FALCON. *Falco peregrinoides*.
 Sternum. Nepal. Presented by B. H. Hodgson, Esq.

The MERLIN. *Falco æsolon*.
 Sternum. England. Presented by T. Ingall, Esq.
 Sternum. England.
 Sternum. England. Presented by John Ray, Esq.
 Two Sterna. Europe. From M. Lefevre's collection.

The HOBBY FALCON. *Falco subbuteo*.
 Sternum. England. Presented by John Ray, Esq.
 Skull. England. Presented by John Ray, Esq.

TINNUNCULUS, *Vieill.*

The KESTRIL FALCON. *Tinnunculus alaudarius*. *Falco tinnunculus*, *Linn.*
 Sternum. England. Presented by T. Ingall, Esq.
 Skull. Egypt. Presented by Dr. Turnbull Christie.
 Sternum. England. Presented by John Ray, Esq.
 Sternum. Europe. From M. Lefevre's collection.
 Sternum. Nepal. Presented by B. H. Hodgson, Esq.

The LESSER KESTRIL. *Falco tinnunculoides*?
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

JERAX, *Vigors.*

The WHITE-NAPE FALCON. *Jerax bengalensis.*
Two Sterna. Nepal. Presented by B. H. Hodgson, Esq.

BAZA, *Hodgs.*

The COHY FALCON. *Baza lophotes.*
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

PERNIS, *Cuv.*

The HONEY BUZZARD. *Pernis apivorus.*
Sternum. Europe. From M. Lefevre's collection.

The CRESTED HONEY BUZZARD. *Pernis cristata.*
Sternum. Presented by B. H. Hodgson, Esq.

MILVUS, *Cuv.*

The CHEELA KITE. *Milvus cheela.*
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

The KITE. *Milvus regalis.*
Sternum. England. Presented by John Ray, Esq.
Sternum. Europe. From M. Lefevre's collection.

ELANUS, *Sav.*

The BLACK-WINGED FALCON. *Elanus melanopterus.*
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

ASTUR, *Lacep.*

The GOSHAWK. *Astur palumbarius.*
Sternum. Nepal. Presented by B. H. Hodgson, Esq.
Sternum. Europe. From M. Lefevre's collection.

The THREE-STREAKED HAWK. *Astur trivirgatus.*
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

POLIORNIS, *Kaup.*

The TEESA HAWK. *Poliornis teesa.*
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

ACCIPITER, *Briss.*

The SPARROW-HAWK. *Accipiter nisus.*
Sternum, male. England. Presented by T. Ingall, Esq.
Sternum, female. England. Presented by T. Ingall Esq.

- Sternum. Nepal. Presented by B. H. Hodgson, Esq.
 Sternum. England.
 Sternum. England. Presented by John Ray, Esq.
 Sternum. Europe. From M. Lefevre's collection.

MICRONISUS, *Gray*.

- BROWN'S HAWK. *Micronisus badius*.
 Sternum. Nepal. Presented by B. H. Hodgson, Esq.

CIRCUS, *Lacep.*

The HEN HARRIER. *Circus cyaneus*:

- Two Sterna. England.
 Sternum. England. Presented by John Ray, Esq.
 Sternum. Europe. From M. Lefevre's collection.
 Sternum. Nepal. Presented by B. H. Hodgson, Esq.

The ASH-COLOURED FALCON. *Circus cinerascens*.

- Sternum. Nepal. Presented by B. H. Hodgson, Esq.
 Sternum. England. Presented by John Ray, Esq.
 Sternum. Europe. From M. Lefevre's collection.

The MOOR BUZZARD. *Circus æruginosus*.

- Sternum. England.
 Sternum. England. Presented by John Ray, Esq.
 Skull. England. Presented by John Ray, Esq.
 Sternum. Nepal. Presented by B. H. Hodgson, Esq.
 Sternum. Europe. From M. Lefevre's collection.

Fam. 5. STRIGIDÆ.

ATHENE, *Boie*.

- The Athene *connivens*?
 Skeleton (without head). South Australia. From Mr. Warwick's collection.

The INDIAN OWL. *Athene brama*.

- Sternum. Presented by B. H. Hodgson, Esq.

The HIMALAYAH OWL... *Athene cuculoides*.

- Sternum. Presented by B. H. Hodgson, Esq.

BUBO, *Sibb.*

The ORIENTAL OWL. *Bubo orientalis*.

- Sternum. Presented by B. H. Hodgson, Esq.

The COROMANDEL EARED OWL. *Bubo coromander*.

- Sternum. Presented by B. H. Hodgson, Esq.

EPHIALTES, *Keys. & Bl.*

The SCOPS-EARED OWL. *Ephialtes scops*.
Sternum. From M. Lefevre's collection.

The LEMPIJI OWL. *Ephialtes lempiji*.
Sternum. Presented by B. H. Hodgson, Esq.

The CUSIAL EARED OWL. *Ephialtes sunia*.
Sternum. Presented by B. H. Hodgson, Esq.

KETUPU, *Less.*

The YELLOW-FOOTED KETUPA. *Ketupu flavipes*.
Sternum. Presented by B. H. Hodgson, Esq.

SYRNIUM, *Sav.*

The BROWN OWL. *Syrnium aluco*.
Sternum. England. Presented by T. Ingall, Esq.
Sternum. England. Presented by John Ray, Esq.

OTUS, *Cuv.*

The LONG-EARED OWL. *Otus vulgaris*.
Sternum. England. Presented by T. Ingall, Esq.
Sternum. England. Presented by John Ray, Esq.

The SHORT-EARED OWL. *Otus brachyotus*.
Sternum. England. Presented by T. Ingall, Esq.
Trachea. England.
Sternum. England. Presented by John Ray, Esq.
Sternum. Europe. From M. Lefevre's collection.

STRIX, *Linn.*

The BARN OWL. *Strix flammea*.
Sternum. England. Presented by T. Ingall, Esq.
Skull. Egypt. Presented by Dr. Turnbull Christie.
Sternum. England. Presented by John Ray, Esq.
Sternum. Europe. From M. Lefevre's collection.
Sternum. Presented by B. H. Hodgson, Esq.

The
Skeleton. *Strix* ——— ?
Chili. From Mr. Warwick's collection.

Order II. PASSERES.

Tribe 1. FISSIROSTRES.

Sub-tribe 1. FISSIROSTRES NOCTURNÆ.

Fam. 1. CAPRIMULGIDÆ.

PODARGUS, *Cuv.*

The COLD-RIVER GOATSUCKER. *Podargus humeralis*.
Skull. South Australia. From Mr. Warwick's collection.

The SMALL PODARGUS. *Podargus phalænoides*.
Skeleton. Port Essington. From Mr. Warwick's collection.

CAPRIMULGUS, *Linn.*

The EUROPEAN GOATSUCKER. *Caprimulgus europæus*.
Sternum. England. Presented by John Ray, Esq.

The INDIAN GOATSUCKER. *Caprimulgus indicus*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

The NEPAL GOATSUCKER. *Caprimulgus nipalensis*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

Sub-tribe 2. FISSIROSTRES DIURNÆ.

Fam 2. HIRUNDINIDÆ.

ACANTHYLIS, *Boie*.

The NAKED-FOOTED SWIFT. *Acanthylis nudipes*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

CYPSELUS, *Ill.*

The SWIFT. *Cypselus apus*.
Sternum. England. Presented by T. Ingall, Esq.

HIRUNDO, *Linn.*

The JAVAN SWALLOW. *Hirundo javanica*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

The DAURIAN SWALLOW. *Hirundo daurica*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

The ——— ? SWALLOW. *Hirundo* ——— ?
Sternum. England. Presented by T. Ingall, Esq.

Fam. 3. CORACIADÆ.

EURYSTOMUS, *Viell.*

The ORIENTAL ROLLER. *Eurystomus orientalis*.
 Sternum. Nepal. Presented by B. H. Hodgson, Esq.
 Skeleton. From M. Frank's collection.

CORACIAS, *Linn.*

The INDIAN ROLLER. *Coracias indica*.
 Sternum. Nepal. Presented by B. H. Hodgson, Esq.

CYMBIRHYNCHUS, *Vigors.*

The GREAT-BILLED TODY. *Cymbirhynchus nasutus*.
 Skeleton. From M. Frank's collection.

PSARISOMUS, *Swains.*

LADY DALHOUSIE'S EURYLAIMUS. *Psarisomus Dalhousiæ*.
 Sternum. Nepal. Presented by B. H. Hodgson, Esq.

SERILOPHUS, *Swains.*

The RED-BACKED SERILOPHUS. *Serilophus rubropygia*.
 Sternum. Nepal. Presented by B. H. Hodgson, Esq.

Fam. 4. TROGONIDÆ.

HARPACTES, *Swains.*

REINWARDT'S HARPACTES. *Harpactes Reinwardtii*.
 Skeleton. From M. Frank's collection.

HODGSON'S TROGON. *Harpactes Hodgsonii*.
 Sternum. Nepal. Presented by B. H. Hodgson, Esq.

Fam. 5. ALCEDINIDÆ.

HALCYON, *Swains.*

The SMYRNA KINGFISHER. *Halcyon smyrnensis*.
 Sternum. Nepal. Presented by B. H. Hodgson, Esq.

The GURIAL KINGFISHER. *Halcyon capensis*.
 Sternum. Nepal. Presented by B. H. Hodgson, Esq.

The ———? *Halcyon vagans?*
 Sternum. New Zealand.
 Sacrum. New Zealand.
 Upper mandible. New Zealand. Presented by the Admiralty.

The SACRED HALCYON. *Halcyon sanctus*.
Sternum. South Australia. Presented by His Excellency Capt.
G. Grey.

The BLUE-EARED HALCYON. *Halcyon cyanotis*.
Skeleton. From M. Frank's collection.

CERYLE, *Boie*.

The BLACK AND WHITE KINGFISHER. *Ceryle rudis*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

ALCEDO, *Linn.*

The COMMON KINGFISHER. *Alcedo ispida*.
Sternum. England. Presented by T. Ingall, Esq.
Sternum, young. England. Presented by T. Ingall, Esq.

The INDIAN KINGFISHER. *Alcedo bengalensis*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.
Skeleton. From M. Frank's collection.

ALCYONE, *Swains.*

The AZURE KINGFISHER. *Alcyone azurea*.
Skeleton. Port Essington. From Mr. Warwick's collection.

Fam. 6. MEROPIDÆ.

MEROPS, *Linn.*

The COMMON BEE-EATER. *Merops apiaster*.
Sternum. Europe. From M. Lefevre's collection.
Skull. Egypt. Presented by Dr. Turnbull Christie.

NYCTIORNIS, *Swains.*

ATHERTON'S NYCTIORNIS. *Nyctiornis Atherstoni*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

Tribe 2. TENUIROSTRES.

Fam. 1. UPUPIDÆ.

UPUPA, *Linn.*

The COMMON HOOPOE. *Upupa epops*.
Skeleton. Egypt. From Mr. Warwick's collection.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

Fam. 2. NECTARINIDÆ.

NECTARINIA, *Ill.*

The GOULPOURAL SUN BIRD. *Nectarinia goalpariensis*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

The RED-TAILED SUN BIRD. *Nectarinia ignicauda*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

ARACHNOTHERA, *Temm.*

The LONG-BILLED SPIDER-HUNTER. *Arachnothera longirostris*.
Skeleton. From M. Frank's collection.

The GREAT SPIDER-HUNTER. *Arachnothera magna*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

DICEUM, *Cuv.*

The YELLOW DICEUM. *Dicæum flavum*.
Skeleton. From M. Frank's collection.

Fam. 4. MELEPHAGIDÆ.

PROSTHEMADERA, *Gray.*

The POE HONEYEATER. *Prothemadera novæ zealandiæ*.
Imperfect skeletons. New Zealand. Presented by the Admiralty.

MELIPHAGA, *Lewin.*

The NEW HOLLAND HONEYEATER. *Meliphaga novæ hollandiæ*.
Skull. New South Wales.

ANTHOCHÆRA, *Vig. & Horsf.*

LEWIN'S ANTHOCHÆRA. *Anthochæra Lewinii*.
Skull. New South Wales.

TROPIDORHYNCHUS, *Vig. & Horsf.*

The SILVER-HEADED TROPIDORHYNCHUS. *Tropidorhynchus argenteiceps*.
Skeleton. Port Essington. From Mr. Warwick's collection.

PHYLLORNIS, *Boie*.

The GOLDEN-BELLIED PHYLLORNIS. *Phyllornis Hardwickii*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

The GOLDEN-FRONTED PHYLLORNIS. *Phyllornis aurifrons*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

Fam. 5. CERTHIDÆ.

CERTHIA, *Linn.*

The COMMON CREEPER. *Certhia familiaris*.
Skull. England. Presented by John Ray, Esq.

SITTA, *Linn.*

The EUROPEAN NUTHATCH. *Sitta europæa*.
Sternum. England. Presented by John Ray, Esq.
Skull. England. Presented by John Ray, Esq.

The NEPAL NUTHATCH. *Sitta nipalensis*, *Hodgs.*
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

The SOCIAL NUTHATCH. *Sitta frontalis*.
Skeleton. From M. Frank's collection.

TROGLODYTES, *Vieill.*

The EUROPEAN WEEN. *Troglodytes europæus*.
Sternum. England. Presented by John Ray, Esq.
Skull. England. Presented by John Ray, Esq.

Tribe 3. DENTIROSTRES.

Fam. 1. LUSCINIDÆ.

PRINIA, *Horsf.*

The LONG-TAILED PRINIA. *Prinia criniger*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

CALAMODYTA, *Meyer.*

The SEDGE WARBLER. *Calamodyta phragmitis*.
Sternum. England. Presented by John Ray, Esq.

REGULUS, *Cuv.*

The GOLDEN-CRESTED WREN. *Regulus cristatus*.
Sternum. England. Presented by T. Ingall, Esq.

PHYLLOPNEUSTE, *Meyer.*

- The CHIFFCHAFF. *Phyllopneuste hippolais*.
 Sternum. England. Presented by T. Ingall, Esq.
 Sternum. England. Presented by John Ray, Esq.
 Skull. England. Presented by John Ray, Esq.

SYLVIA, *Lath.*

- The BLACK CAP. *Sylvia atricapilla*.
 Sternum. England. Presented by T. Ingall, Esq.

CULICIPETA, *Blyth.*

- The STRIPED-HEADED CULICIPETA. *Culicipeta Burkii*.
 Sternum. Nepal. Presented by B. H. Hodgson, Esq.

COPSYCHUS, *Wagl.*

- The DIAL BIRD. *Copsychus saularis*.
 Sternum. Nepal. Presented by B. H. Hodgson, Esq.

RUTICILLA, *Brehm.*

- The SOOTY RUTICILLA. *Ruticilla fuliginosa*.
 Sternum. Nepal. Presented by B. H. Hodgson, Esq.

MUSCISYLVIA, *Hodgs.*

- The WHITE-TAILED MUSCISYLVIA. *Muscisylvia leucura*.
 Sternum. Nepal. Presented by B. H. Hodgson, Esq.

GRANDALA, *Hodgs.*

- The CELESTIAL GRANDALA. *Grandala cælicolor*.
 Sternum. Nepal. Presented by B. H. Hodgson, Esq.

CYANECULA, *Brehm.*

- The BLUE-NECKED WARBLER. *Cyanecula suecica*.
 Sternum. Nepal. Presented by B. H. Hodgson, Esq.

BRADYPTERUS, *Hodgs.*

- The RED-TAILED SHORT-WING. *Bradypterus phœnicuroides*.
 Two Sterna. Nepal. Presented by B. H. Hodgson, Esq.

ERYTHACUS, *Cuv.*

- The RED-BREASTED WARBLER. *Erythacus rubecula*.
 Sternum. England. Presented by T. Ingall, Esq.

SAXICOLA, Bechst.

- The **WHEATEAR**. *Saxicola œnanthe*.
 Sternum. England. Presented by T. Ingall, Esq.
 Sternum. England. Presented by John Ray, Esq.
 Skull. England. Presented by John Ray, Esq.
- The **BLACK AND WHITE STONECHAT**. *Saxicola caprata*.
 Sternum. Nepal. Presented by B. H. Hodgson, Esq.
- The **STOUT STONECHAT**. *Saxicola ferrea*.
 Sternum. Nepal. Presented by B. H. Hodgson, Esq.
- The **STONECHAT**. *Saxicola rubicola*.
 Sternum. Nepal. Presented by B. H. Hodgson, Esq.
- The **WHINCHAT**. *Saxicola rubetra*.
 Sternum. England. Presented by T. Ingall, Esq.

PETROICA, Swains.

- The **HOODED FLYCATCHER**. *Petroica cucullata*.
 Sternum. South Australia.

ACCENTOR, Bechst.

- The **HEDGE SPARROW**. *Accentor modularis*.
 Sternum. England. Presented by T. Ingall, Esq.

PARUS, Linn.

- The **SULTAN TITMOUSE**. *Parus sultaneus*.
 Sternum. Nepal. Presented by B. H. Hodgson, Esq.
- The **NEPAL TITMOUSE**. *Parus nipalensis*.
 Sternum. Nepal. Presented by B. H. Hodgson, Esq.
- The **BLUE TITMOUSE**. *Parus cœruleus*.
 Skull. England. Presented by John Ray, Esq.
- The **MARSH TITMOUSE**. *Parus palustris*.
 Skull. England.
- The **GREAT TITMOUSE**. *Parus major?*
 Sternum. England. Presented by T. Ingall, Esq.
- The **COLE TITMOUSE**. *Parus ater*.
 Skull. England.

ORITES, Mehr.

- The **LONG-TAILED TITMOUSE**. *Orites caudata*.
 Sternum. England. Presented by T. Ingall, Esq.

CALAMOPHILUS, *Leach.*

- The BEARDED TITMOUSE. *Calamophilus biarmicus*.
 Three Sterna. England. Presented by T. Ingall, Esq.
 Sternum. England. Presented by John Ray, Esq.
 Skull. England. Presented by John Ray, Esq.

ZOSTEROPS, *Vig. & Horsf.*

- The WHITE-EYED WARBLER. *Zosterops madraspatana*.
 Sternum. Nepal. Presented by B. H. Hodgson, Esq.

YUHINA, *Hodgs.*

- The RUSTY-NAPED YUHIN. *Yuhina occipitalis*.
 Sternum. Nepal. Presented by B. H. Hodgson, Esq.

MYZORNIS, *Hodgs.*

- The FIRE-TAILED MYZORNIS. *Myzornis pyrrhoura*.
 Sternum. Nepal. Presented by B. H. Hodgson, Esq.

STRACHYRIS, *Hodgs.*

- The RED-EYED STRACHYRIS. *Strachyris pyrrhops*.
 Sternum. Nepal. Presented by B. H. Hodgson, Esq.

MOTACILLA, *Linn.*

- HODGSON'S WAGTAIL. *Motacilla luzoniensis*.
 Sternum. Nepal. Presented by B. H. Hodgson, Esq.

- The COMMON WAGTAIL. *Motacilla alba*.
 Sternum. England. Presented by T. Ingall, Esq.
 Skull. England. Presented by John Ray, Esq.

- The *Motacilla* ————?
 Skull. Egypt. Presented by Dr. Turnbull Christie.

- The GRAY WAGTAIL. *Motacilla boarula*.
 Sternum. England. Presented by John Ray, Esq.

BUDYTES, *Cuv.*

- The YELLOW WAGTAIL. *Budytes flava*.
 Sternum. England. Presented by T. Ingall, Esq.
 Sternum. England. Presented by John Ray, Esq.

- The LONG-LEGGED WAGTAIL. *Budytes calcarata*.
 Sternum. Nepal. Presented by B. H. Hodgson, Esq.

ENICURUS, *Temm.*

- The SPOTTED ENICURUS. *Enicurus maculatus*.
 Sternum. Nepal. Presented by B. H. Hodgson, Esq.

- The SLATY ENICURUS. *Enicurus schistaceus*.
 Imperfect sternum. Nepal. Presented by B. H. Hodgson, Esq.

The RED-NAPE*D ENICURUS*. *Enicurus velatus*.
Skeleton. From M. Frank's collection.

ANTHUS, Bechst.

The SKYLARK. *Anthus arvensis*.
Sternum. England. Presented by T. Ingall, Esq.

The WOODLARK. *Anthus arboreus*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

Fam. 2. TURBIDÆ.

PITTA, Vieill.

The SHORT-TAILED PITTA. *Pitta brachyura*.
Skeleton. From M. Frank's collection.

The NEPAL PITTA. *Pitta nipalensis*.
Skull and Sternum. Nepal. Presented by B. H. Hodgson,
Esq.

MYIOPHONUS, Temm.

TEMMINCK'S MYIOPHONUS. *Myiophonus Temminckii*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

The BLUE MYIOPHONUS. *Myiophonus cyaneus*.
Skeleton. From M. Frank's collection.

CINCLUS, Bechst.

PALLAS'S CINCLUS. *Cinclus Pallasii*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

PETROCOSYPHUS, Boie.

The ORANGE-HEADED PETROCOSYPHUS. *Petrocosyphus
citrinus*.
Two Sterna. Presented by B. H. Hodgson, Esq.

The THRUSH-BILLED PETROCOSYPHUS. *Petrocosyphus cin-
clorhynchus*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

ZOOTHERA, Vigors.

The MOUNTAIN ZOOTHERA. *Zoothera monticola*.
Skull. Nepal. Presented by B. H. Hodgson, Esq.

TURDUS, Linn.

The MISSEL THRUSH. *Turdus viscivorus*.
Sternum. England. Presented by T. Ingall, Esq.

The FIELDFARE. *Turdus pilaris*.
Sternum. England. Presented by T. Ingall, Esq.
Sternum. England. Presented by John Ray, Esq.

The **SONG THRUSH**. *Turdus musicus*.
Sternum. England. Presented by T. Ingall, Esq.

The **REDWING THRUSH**. *Turdus iliacus*.
Sternum. England. Presented by T. Ingall, Esq.

WHITE'S THRUSH. *Turdus Whiteii*.
Two Sterna. Nepal. Presented by B. H. Hodgson, Esq.

The **BLACK-BREADED THRUSH**. *Turdus atrogularis*.
Sternum. Presented by B. H. Hodgson, Esq.

The **BLACKBIRD**. *Turdus merula*.
Sternum. England. Presented by T. Ingall, Esq.
Skull. England.

The **GRAY-WINGED THRUSH**. *Turdus pæcilopterus*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

The **RED-BELLIED THRUSH**. *Turdus erythrogaster*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

MIMUS, Boie.

The **MOCKING BIRD**. *Mimus Orpheus*.
Sternum. America.

GARRULAX, Less.

The **WHITE-HEADED GARRULAX**. *Garrulax leucolophus*.
Two Sterna. Nepal. Presented by B. H. Hodgson, Esq.

The **WHITE-THROATED GARRULAX**. *Garrulax albigularis*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

The **NECKLACED GARRULAX**. *Garrulax moniligera*.
Sternum? Nepal. Presented by B. H. Hodgson, Esq.

The **BLACK-GORGET GARRULAX**. *Garrulax pectoralis*.
Imperfect skeleton. Nepal. Presented by B. H. Hodgson, Esq.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

TROCHALOPTERON, Hodgs.

The **RED-THROATED TROCHALOPTERON**. *Trochalopteron rufigularis*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

The **SPINE-BEARING TROCHALOPTERON**. *Trochalopteron setifer*.
Skeleton. Nepal. Presented by B. H. Hodgson, Esq.

ACTINODURA, Gould.

The **NEPAL ACTINODURA**. *Actinodura nipalensis*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

PELLORNEUM, *Swains.*

The RUFIOUS-HEADED PELLORNEUM. *Pellorneum ruficeps*.
Two Sterna. Nepal. Presented by B. H. Hodgson, Esq.

TIMALIA, *Horsf.*

The HOODED TIMALIA. *Timalia mitrata*.
Skeleton. From M. Frank's collection.

MALACOCERCUS, *Swains.*

The GRAY MALACOCERCUS. *Malacocercus griseus*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

POMATORHINUS, *Horsf.*

The MOUNTAIN POMATORHINUS. *Pomatorhinus montanus*.
Skeleton. From M. Frank's collection.

The RUFIOUS-CHEEKED POMATORHINUS. *Pomatorhinus erythrogyens*.

Two Imperfect Skeletons. Nepal. Presented by B. H. Hodgson, Esq.

ORIOIUS, *Linn.*

HODGSON'S ORIOLE. *Oriolus Hodgsonii*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

TRAILL'S ORIOLE. *Oriolus Traillii*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

HYPSIPETES, *Vigors.*

The NEPAL HYPSPETES. *Hypsipetes psaroides*.
Imperfect skeleton. Nepal. Presented by B. H. Hodgson, Esq.

The GREEN HYPSPETES. *Hypsipetes viridis*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

SIBIA, *Hodgs.*

The LONG-TAILED SIBIA. *Sibia picnoïdes*.
Sternum. Presented by B. H. Hodgson, Esq.

TRICHOPHORUS, *Temm.*

The YELLOW-BELLIED TRICHOPHORUS. *Trichophorus flavolus*.

Two Sterna. Nepal. Presented by B. H. Hodgson, Esq.

HÆMATORNIS, *Swains.*

The WHITE HÆMATORNIS. *Hæmatornis cafer*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

The **JOCOSE HÆMATORNIS**. *Hæmatornis jocosus*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

The **WHITE-CHEEKED HÆMATORNIS**. *Hæmatornis leucogenys*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

The **BLACK-HEADED HÆMATORNIS**. *Hæmatornis melanoccephala*.
Two Sterna. Nepal. Presented by B. H. Hodgson, Esq.

HEMIPUS, Hodgs.

The **YELLOW-WINGED HEMIPUS**. *Hemipus flavula*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

Fam. 3. **MUSCICAPIDÆ.**

MUSCICAPA, Linn.

The **SPOTTED FLYCATCHER**. *Muscicapa griseola*.
Sternum. England. Presented by John Ray, Esq.
Skull. England. Presented by John Ray, Esq.

NILTAVA, Hodgs.

The **BLACK-COLLARED NILTAVA**. *Niltava sundara*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

SIPHIA, Hodgs.

The **ORANGE-GORGET SIPHIA**. *Siphia strophciata*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

Fam. 4. **ANPELIDÆ.**

MESIA, Hodgs.

The **SILVER-EARED MESIA**. *Mesia argentauris*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

PTERUTHIUS, Swains.

The **RED-WINGED PTERUTHIUS**. *Pteruthius erythropterus*.
Three Sterna. Nepal. Presented by B. H. Hodgson, Esq.

COCHOA, Hodgs.

The **GREEN COCHOA**. *Cochoa viridis*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

PERICROCOTUS, *Boie*.

The BLACK AND SCARLET PERICROCOTUS. *Pericrocotus speciosus*.

Three Sterna. Nepal. Presented by B. H. Hodgson, Esq.

The SHORT-BILLED PERICROCOTUS. *Pericrocotus brevirostris*.

Two Sterna. Nepal. Presented by B. H. Hodgson, Esq.

The Pericrocotus ———
Two Imperfect sterna. Nepal. Presented by B. H. Hodgson, Esq.

CAMPEPHAGA, *Vieill.*

MACE'S CAMPEPHAGA. *Campephaga Macei*.
Two Sterna. Nepal. Presented by B. H. Hodgson, Esq.

The Campephaga ———?
Sternum. South Australia. Presented by His Excellency Captain G. Grey.

The SOOTY CAMPEPHAGA. *Campephaga lugubris*.
Two Sterna. Nepal. Presented by B. H. Hodgson, Esq.

ARTAMUS, *Vieill.*

The WHITE-BILLED ARTAMUS. *Artamus leucorhynchus*.
Skeleton. From M. Frank's collection.

The RUFIOUS-BELLIED ARTAMUS. *Artamus fuscus*.
Two Sterna. Nepal. Presented by B. H. Hodgson, Esq.

DICRURUS, *Vieill.*

The RACKET-TAILED DICRURUS. *Dicrurus grandis*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

The GREAT-TAILED DICRURUS. *Dicrurus macrocerus*.
Two Sterna. Nepal. Presented by B. H. Hodgson, Esq.

BRINGA, *Hodgs.*

The RACKET-TAILED BRINGA. *Bringa remifer*.
Skeleton. From M. Frank's collection.

CHIBIA, *Hodgs.*

The CRISHNA CROW. *Chibia hottentottus*.
Two Sterna. Nepal. Presented by B. H. Hodgson, Esq.

CHAPTIA, *Hodgs.*

The BRONZE CHAPTIA. *Chaptia ænea*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

IRENA, *Horsf.*

The FAIRY IRENA. *Irena puella*.
Skeleton. From M. Frank's collection.

Fam. 5. LANIIDÆ.

TEPHRODORNIS, *Swains.*

The JUNGLE-WOOD SHRIKE. *Tephrodornis pelvica*.
Three Sterna. Nepal. Presented by B. H. Hodgson, Esq.

LANIUS, *Linn.*

The RED-BACKED SHRIKE. *Lanius collurio*.
Sternum. England. Presented by T. Ingall, Esq.
Sternum. England. Presented by John Ray, Esq.

The BAGAHA SHRIKE. *Lanius tephronotus*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

The BAY-BACKED SHRIKE. *Lanius Hardwickii*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

The BLACK-HEADED SHRIKE. *Lanius nigriceps*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

OREICA, *Gould.*

The CRESTED OREICA. *Oreica cristata*.
Skeleton. Western Australia. From Mr. Warwick's collection.

Tribe 4. CONIROSTRES.

Fam. 1. CORVIDÆ.

GARRULUS, *Briss.*

The COMMON JAY. *Garrulus glandarius*.
Skull. England.
Sternum. England. Presented by John Ray, Esq.
Skull. England. Presented by John Ray, Esq.

The HIMALAYAH JAY. *Garrulus bispecularis*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

CISSA, Boie.

The RUFIOUS-WINGED CISSA. *Cissa thalassina*.
Skeleton. Indian Archipelago. From M. Frank's collection.

PSILORHINUS, Rupp.

The RED-BILLED PSILORHINUS. *Psilorhinus sinensis*.
Two Sterna. Nepal. Presented by B. H. Hodgson, Esq.

CRYPHIRINA, Vieill.

The CHANGEABLE CROW. *Crypsirina varians*.
Skeleton. From M. Frank's collection.

CONOSTOMA, Hodgs.

The HIMALAYAH CONOSTOMA. *Conostoma æmodium*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

DENDROCITTA, Gould.

The MACAO TREE CROW. *Dendrocitta sinensis*.
Two Sterna. Nepal. Presented by B. H. Hodgson, Esq.

NUCIFRAGA, Briss.

The HIMALAYAH NUTCRACKER. *Nucifraga hemispila*.
Two Sterna. Nepal. Presented by B. H. Hodgson, Esq.

PICA, Briss.

The MAGPIE. *Pica caudata*.
Sternum. England. Presented by T. Ingall, Esq.
Sternum. England.

CORVUS, Linn.

The RAVEN. *Corvus corax*.
Sternum. England. Presented by John Ray, Esq.

The ROOK. *Corvus frugilegus*.
Sternum. England. Presented by T. Ingall, Esq.

The CARRION CROW. *Corvus corone*.
Sternum. England. Presented by John Ray, Esq.

The JACKDAW. *Corvus monedula*.
Skull. England. Presented by John Ray, Esq.

The HOODED CROW. *Corvus cornix*.
Sternum. England. Presented by John Ray, Esq.
Sternum. Europe. From M. Lefevre's collection.

The INDIAN HOODED CROW. *Corvus splendens*.
 Sterna. Nepal. Presented by B. H. Hodgson, Esq.
 Skulls. Nepal. Presented by B. H. Hodgson, Esq.

Fam. 2. STURNIDÆ.

CALORNIS, *G. R. Gray*.

The SONGSTER. *Calornis panayensis*.
 Skeleton. From M. Frank's collection.

GRACULA, *Linn.*

The MINOR GRAKLE. *Gracula religiosa*.
 Two Sterna. Nepal. Presented by B. H. Hodgson, Esq.

STURNUS, *Linn.*

The COMMON STARLING. *Sturnus vulgaris*.
 Sternum. England. Presented by T. Ingall, Esq.
 Sternum. Nepal. Presented by B. H. Hodgson, Esq.

PASTOR, *Temm.*

The ROSE-COLOURED PASTOR. *Pastor roseus*.
 Sternum. Nepal. Presented by B. H. Hodgson, Esq.

The MAHRATTA GRAKLE. *Pastor mahrattensis*.
 Two Sterna. Nepal. Presented by B. H. Hodgson, Esq.

The PARADISE GRAKLE. *Pastor tristis*.
 Three Sterna. Nepal. Presented by B. H. Hodgson, Esq.

The GINGI GRAKLE. *Pastor ginginianus*.
 Two Sterna. Nepal. Presented by B. H. Hodgson, Esq.

The GOSALIC GRAKLE. *Pastor contra*.
 Two Sterna. Presented by B. H. Hodgson, Esq.
 Skeleton. From M. Frank's collection.

Fam. 3. FRINGILLIDÆ.

COCCOTHAUSTES, *Briss.*

The HAWFINCH. *Coccothraustes vulgaris*.
 Sternum. England. Presented by T. Ingall, Esq.
 Two Skulls. England. Presented by John Ray, Esq.

The BLACK AND YELLOW HAWFINCH. *Coccothraustes melanoxanthus*.
 Three Sterna. Nepal. Presented by B. H. Hodgson, Esq.

MUNIA, Hodgs.

The COWRY GROSBK. *Munia punctularia*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

PLOCEUS, Cuv.

The RED-HEADED WEAVER. *Ploceus flammiceps*.
Skeleton. Presented by the Earl of Derby.

VIDUA, Cuv.

The PANAYAN BUNTING. *Vidua ardens*.
Skeleton. Presented by the Earl of Derby.

PASSER, Briss.

The COMMON SPARROW. *Passer domesticus*.
Sternum. England. Presented by T. Ingall, Esq.

The TREE SPARROW. *Passer montanus*.
Sternum. England. Presented by John Ray, Esq.

CANNABINA, Brehm.

The COMMON LINNET. *Cannabina linota*.
Sternum. England. Presented by John Ray, Esq.

The LESSER REDPOLE. *Cannabina linaria*.
Sternum. England. Presented by T. Ingall, Esq.

MONTIFRINGILLA, Brehm.

The WOOD FINCH. *Montifringilla nemoricola*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

FRINGILLA, Linn.

The CHAFFINCH. *Fringilla œlebs*.
Sternum. England. Presented by T. Ingall, Esq.
Skull. England. Presented by John Ray, Esq.

The BRAMBLING. *Fringilla montifringilla*.
Sternum. England. Presented by T. Ingall, Esq.
Sternum. England. Presented by John Ray, Esq.
Skull. England. Presented by John Ray, Esq.

CARDUELIS, Briss.

The GOLDFINCH. *Carduelis elegans*.
Sternum. England. Presented by T. Ingall, Esq.

LIGURINUS, *Briss.*

- The GREENFINCH. *Ligurinus chloris.*
 Sternum. England. Presented by T. Ingall Esq.
 Sternum. England. Presented by John Ray, Esq.

CHRYSOMITRIS, *Boie.*

- The HIMALAYAH SISKIN. *Chrysomitris spinoides.*
 Two Sterna. Nepal. Presented by B. H. Hodgson, Esq.

EMBERIZA, *Linn.*

- The COMMON BUNTING. *Emberiza miliaria.*
 Sternum. England. Presented by T. Ingall, Esq.
 Sternum. England. Presented by John Ray, Esq.

- The *Emberiza*—————?
 Skeleton. Chili. From Mr. Warwick's collection.

PLECTROPHANES, *Meyer.*

- The SNOW BUNTING. *Plectrophanes nivalis.*
 Two Sterna. England. Presented by T. Ingall, Esq.
 Sternum. England. Presented by John Ray, Esq.
 Skull. England. Presented by John Ray, Esq.

ALAUDA, *Linn.*

- The SHORT-TOED LARK. *Alauda brachydactyla.*
 Three Sterna. Nepal. Presented by B. H. Hodgson, Esq.

- The SKYLARK. *Alauda arvensis.*
 Sternum. England. Presented by John Ray, Esq.
 Skull. England. Presented by John Ray, Esq.

- The WOODLARK. *Alauda arborea.*
 Sternum. England. Presented by John Ray, Esq.

CARPODACUS, *Kaup.*

- The EGYPTIAN BULLFINCH. *Carpodacus Payraudæi.*
 Two Skulls. Egypt. Presented by Dr. Turnbull Christie.

PYRRHULA, *Mæhr.*

- The BULLFINCH. *Pyrrhula vulgaris.*
 Sternum. England. Presented by T. Ingall, Esq.
 Two Skulls. England.

LOXIA, *Linn.*

- The COMMON CROSSBILL. *Loxia curvirostra.*
 Sternum. England. Presented by John Ray, Esq.
 Skull. England. Presented by John Ray, Esq.

The HIMALAYAN CROSSBILL. *Loxia hemalayana*.
Sterna. Nepal. Presented by B. H. Hodgson, Esq.

Fam. 4 BUCEROTIDÆ.

BUCEROS, *Linn.*

The HOMRAI HORNBILL. *Buceros Homrai*.
Skeleton. Nepal. Presented by B. H. Hodgson, Esq.
Head. Nepal. Presented by B. H. Hodgson, Esq.

The *Buceros plicatus*.
Skeleton. From M. Frank's collection.

The BLACK-SPOTTED HORNBILL. *Buceros albirostris*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.
Head. Nepal. Presented by B. H. Hodgson, Esq.
Head, young. Nepal. Presented by B. H. Hodgson, Esq.

Tribe 5. SCANSORES.

Fam. 1. PSITTACIDÆ.

PLATYCERCUS, *Vigors.*

The *Platycercus* ————?
Skull. South Australia. Presented by His Excellency Captain
G. Grey.

PALÆORNIS, *Vigors.*

The ALEXANDRINE PARRAKEET. *Palæornis Alexandri*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

The ROSE-HEADED PARRAKEET. *Palæornis bengalensis*.
Three Sterna. Nepal. Presented by B. H. Hodgson, Esq.

The ROSE-RINGED PARRAKEET. *Palæornis torquatus*.
Two Sterna. Nepal. Presented by B. H. Hodgson, Esq.

The MUSTACHE PARRAKEET. *Palæornis pondicerianus*.
Four Sterna. Nepal. Presented by B. H. Hodgson, Esq.

ARA, *Briss.*

The BLUE MACCAW. *Ara hyacinthinus*.
Skull. From Mr. Warwick's collection.

The *Ara* ————?
Sternum.

ENICOGNATHUS, *G. R. Gray.*

The **SLENDER-BILLED PARROT**. *Enicognathus leptorhynchus*.
Skeleton. Chili. From Mr. Warwick's collection.

TRICHOGLOSSUS, *Vig. & Horsf.*

SWAINSON'S **TRICHOGLOSSUS**. *Trichoglossus Swainsonii*.
Skull, imperfect. New South Wales.

PSITTACUS, *Linn.*

The **EAST INDIAN PARROT**. *Psittacus* ————?
Sternum. East India.

The *Psittacus* ————?
Sternum. From M. Lefevre's collection.

The *Psittacus* ————?
Sternum. From M. Lefevre's collection.

The *Psittacus* ————?
Sternum. From M. Lefevre's collection.

The *Psittacus* ————?
Sternum. From M. Lefevre's collection.

PSITTACULA, *Briss.*

The **LATHAN PARROT**. *Psittacula vernalis*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

CACATUA, *Briss.*

The **SULPHUR-CRESTED COCKATOO**. *Cacatua sulphurea*.
Skeleton.

Fam. 2. PICIDÆ.

MEGALAIMA, *G. R. Gray.*

The **CORVINE BARBET**. *Megalaima corvinus*.
Skeleton. From M. Frank's collection.

FRANKLIN'S BARBET. *Megalaima Franklinii*.
Two Sterna. Nepal. Presented by B. H. Hodgson, Esq.

The **BLUE-CHEEKED BARBET**. *Megalaima asiatica*.
Sterna. Nepal. Presented by B. H. Hodgson, Esq.

The **BROWN-HEADED BARBET**. *Megalaima caniceps*.
Skeleton.
Three Sterna. Népal. Presented by B. H. Hodgson, Esq.

PICUS, Linn.

The SPOTTED WOODPECKER. *Picus minor*.
Sternum. England.

HODGSON'S WOODPECKER. *Picus majoroides*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

CHRYSOCOLAPTES, Blyth.

The ROYAL INDIAN WOODPECKER. *Chrysocolaptes sultaneus*.
Two Sterna. Nepal. Presented by B. H. Hodgson, Esq.

GECINUS, Boie.

The GREEN WOODPECKER. *Gecinus viridis*.
Skull. England.

Sternum. England.

Sternum. England. Presented by John Ray, Esq.

Two Sterna. Europe. From M. Lefevre's collection.

The YELLOW-NAPE WOODPECKER. *Gecinus flavinucha*.
Two Sterna. Nepal. Presented by B. H. Hodgson, Esq.

The NEPAL WOODPECKER. *Gecinus nipalensis*.
Skeleton.

Three Sterna. Nepal. Presented by B. H. Hodgson, Esq.

The BEARDED WOODPECKER. *Gecinus occipitalis*.
Four Sterna. Nepal. Presented by B. H. Hodgson, Esq.

The STREAKED WOODPECKER. *Gecinus striolatus*.
Two Sterna. Nepal. Presented by B. H. Hodgson, Esq.

MEIGLYPTES, Swains.

The SHORT-TAILED WOODPECKER. *Meiglyptes brachyurus*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

YUNX, Linn.

The WRYNECK. *Yunx torquilla*.
Two Sterna. England. Presented by T. Ingall, Esq.
Sternum. England. Presented by John Ray, Esq.

Fam. 3. CUCULIDÆ.

CENTROPUS, Ill.

The PHILIPPINE CUCKOW. *Centropus philippensis*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

The PHEASANT CUCKOW. *Centropus phasianellus*.
Skeleton. Port Essington. From Mr. Warwick's collection.

The ALLIED CUCKOW. *Centropus affinis*.
Skeleton. From M. Frank's collection.

PHÆNICOPHAUS, Vieill.

The RUFIOUS-GREEN PHÆNICOPHAUS. *Phænicophaus viridifufus*.
Skeleton. From M. Frank's collection.

The MOUNTAIN PHÆNICOPHAUS. *Phænicophaus tristis*.
Two Skeletons. Nepal. Presented by B. H. Hodgson, Esq.

ZANCLOSTOMUS, Swains.

The SIRKEE CUCKOW. *Zanclostomus sirkee*.
Imperfect Skeleton Nepal. Presented by B. H. Hodgson, Esq.

OXYLOPHUS, Swains.

The COLLARED CUCKOW. *Oxylophus coromandus*.
Two Sterna. Nepal. Presented by B. H. Hodgson, Esq.

PSEUDORNIS, Hodgs.

The NEPAL PSEUDORNIS. *Pseudornis dicruroides, Hodgs.*
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

EUDYNAMYS, Vig. & Horsf.

The EASTERN BLACK CUCKOW. *Eudynamys orientalis*.
Imperfect Skeleton. Nepal. Presented by B. H. Hodgson,
Esq.

CUCULUS, Linn.

The CUCKOW. *Cuculus canorus*.
Sternum (male) England. Presented by T. Ingall, Esq.
Sternum. Europe. From M. Lefevre's collection.
? Sternum. Nepal. Presented by B. H. Hodgson, Esq.

The ASHY-HEADED CUCKOW. *Cuculus poliocephalus*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

The STRIATED CUCKOW. *Cuculus striatus*.
Imperfect Skeleton. Nepal. Presented by B. H. Hodgson,
Esq.

The NEW SOUTH WALES CUCKOW. *Cuculus inornatus*.
Skull. New South Wales.

The BLACK INDIAN CUCKOW. *Cuculus niger*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

CHRYSOCOCYX, *Boie.*

- The YELLOW-BILLED GOLDEN CUCKOW. *Chrysococcyx xanthorhynchus.*
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

Order III. GALLINÆ.

Fam. I. COLUMBIDÆ.

TRERON, *Vieill.*

- The ST. THOMAS' PIGEON. *Treron St. Thomæ.*
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

- The AROMATIC PIGEON. *Treron aromatica.*
Sternum. Presented by B. H. Hodgson, Esq.

- The WEDGE-TAILED PIGEON. *Treron sphenura.*
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

- The POINTED-TAILED PIGEON. *Treron apicauda.*
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

CARPOPHAGA, *Selby.*

- The WHITE-NUTMEG PIGEON. *Carpophaga myristivora.*
Skeleton. Port Essington. From Mr. Warwick's collection.

COLUMBA, *Linn.*

- The RING PIGEON. *Columba palumbus.*
Sternum. England. Presented by John Ray, Esq.
Sternum. Europe. From M. Lefevre's collection.

- The STOCK DOVE. *Columba œnas.*
Sternum. England. Presented by T. Ingall, Esq.
Sternum. England. Presented by John Ray, Esq.

- HODGSON'S PIGEON. *Columba Hodgsonii.*
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

- The NEPAL PIGEON. *Columba Elphinstonii.*
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

TURTUR, *Selby.*

- The COMMON TURTLE. *Turtur auritus.*
Sternum. England. Presented by John Ray, Esq.
Skull. England. Presented by John Ray, Esq.

The DWARF TURTLE. *Turtur humilis*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

The GREEN-WINGED PIGEON. *Chalcophaps indica*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

Fam. 2. PHASIANIDÆ.

PENELOPE, *Merr.*

The Penelope _____?
Skeleton. From Mr. Warwick's collection.

PAVO, *Linn.*

The COMMON PEACOCK. *Pavo domesticus*.
Sternum. Europe. From M. Lefevre's collection.

PHASIANUS, *Linn.*

The COMMON PHEASANT. *Phasianus colchicus*.
Sternum.
Sternum. England. Presented by John Ray, Esq.
Sternum. Europe. From M. Lefevre's collection.
Sternum. (Mule Pheasant.)

The RINGED PHEASANT. *Phasianus torquatus*.
Sternum. Europe. From M. Lefevre's collection.

The Phasianus _____
Sternum and bones of the body. Presented by the Hon. East
India Company.

WALLICH'S PHEASANT. *Phasianus Wallichii*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

GALLOPHASIS, *Hodgs.*

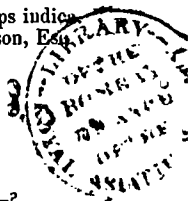
The COLOURED PHEASANT. *Gallophasis leucomelanos*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

The PENCILLED PHEASANT. *Gallophasis nycttherimus*.
Sternum.

GALLUS, *Linn.*

The JAVAN COCK. *Gallus Bankiva*, *Temm.*
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

The DOMESTIC FOWL. *Gallus domesticus*.
Skeleton.



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CERIORNIS, *Swains.*

The HORNED PHEASANT. *Ceriornis satyra.*
Two Skeletons. Nepal. Presented by B. H. Hodgson, Esq.

LOPHOPHORUS, *Temm.*

The IMPEYAN PHEASANT. *Lophophorus impeyanus.*
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

MELEAGRIS, *Linn.*

The COMMON TURKEY. *Meleagris gallopavo.*
Skull. Presented by John Ray, Esq.

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FAM. 3. TETRAONIDÆ.

ITHAGINIS, *Wagl.*

The SANGUINE PARTRIDGE. *Ithaginis cruentus.*
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

LERWA, *Hodgs.*

The LERWA PARTRIDGE. *Lerwa nivicola.*
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

CACCABIS, *Kaup.*

The CHUKAR PARTRIDGE. *Caccabis chukar.*
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

FRANCOLINUS, *Steph.*

The FRANCOLIN PARTRIDGE. *Francolinus vulgaris.*
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

PERDIX, *Bris.*

The COMMON PARTRIDGE. *Perdix cinerea.*
Sternum. England.
Sternum. Europe. From M. Lefevre's collection.

COTURNIX, *Mæhr.*

The COMMON QUAIL. *Coturnix vulgaris.*
Sternum. England. Presented by John Ray, Esq.

The CHINESE QUAIL. *Coturnix chinensis, Linn.*
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

TURNIX, *Bonn.*

The INDIAN TURNIX. *Turnix joudera.*
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

The Turnix _____
Skeleton. Tunis. From M. Frank's collection.

TETRAO, *Linn.*

The WOOD GROUSE. *Tetrao urogallus.*
Trachea.

LYRURUS, *Swains.*

The BLACK COCK. *Lyrurus Tetricus.*
Sternum. England. Presented by John Ray, Esq.

LAGOPUS, *Briss.*

The RED GROUSE. *Lagopus scoticus.*
Sternum. England. Presented by John Ray, Esq.

The PTARMIGAN GROUSE. *Lagopus mutus.*
Sternum. England. Presented by T. Ingall, Esq.
Sternum. England. Presented by John Ray, Esq.

PTEROCLES, *Temm.*

The SAND GROUSE. *Pterocles arenarius.*
Skeleton. From Mr. Warwick's collection.
Two Skeletons. From Mr. Fraser's collection.

Fam. 4. TINAMIDÆ.

TINAMUS, *Lath.*

The Tinamus _____?
Skeleton. Chili. From Mr. Warwick's collection.

Order IV. GRALLÆ.

Fam. 1. STRUTHIONIDÆ.

STRUTHIO, *Linn.*

The COMMON OSTRICH. *Struthio camelus.*
Skeleton of male and
Skeleton of female. Gambia. Presented by the Earl of Derby.

DROMAIUS, *Vieill.*

The NEW HOLLAND CASSOWARY. *Dromaius novæ hollandiæ.*

Part of the trachea with the drumming bladder.

Skeleton.

Skull. From Mr. Argent's collection.

RHEA, *Mæhr.*

The AMERICAN EMU. *Rhea americana.*

Skeleton. From Mr. Bartlett's collection.

Bones of body. Presented by — Tyler, Esq.

APTERYX, *Shaw.*

The KIVI KIVI. *Apteryx australis.*

Imperfect skeleton. New Zealand. Presented by Dr. Sinclair.

OTIS, *Linn.*

The GREAT BUSTARD. *Otis tynda.*

Two Tracheæ.

Sternum. Europe. From M. Lefevre's collection.

EUPODOTIS, *Less.*

The RUFFED BUSTARD. *Eupodotis houbara.*

Skeleton of female. From Mr. Fraser's collection.

The PASSARAGE BUSTARD. *Eupodotis auritus.*

Two Sterna. Nepal. Presented by B. H. Hodgson, Esq.

FAM. 2. CHARADRIÆ.

ŒDICNEMUS, *Temm.*

The THICK-KNEED BUSTARD. *Œdicnemus crepitans,*

Sternum. England. Presented by John Ray, Esq.

Skull. England. Presented by John Ray, Esq.

Three Sterna. Europe. From M. Lefevre's collection.

Skeleton. Europe. From M. Lefevre's collection.

The HIGH-LEGGED PLOVER. *Œdicnemus grallarius.*

Skeleton. Port Essington. From Mr. Warwick's collection.

CURSORIUS, Lath.

The CREAM-COLOURED COURSER. *Cursorius gallicus*.
Skeleton. From Mr. Fraser's collection.

GLAREOLA, Briss.

The AUSTRALIAN PRATINCOLE. *Glareola pratincola*.
Sternum. Europe. From M. Lefevre's collection.

The COROMANDEL PRATINCOLE. *Glareola orientalis*.
Skeleton. From M. Frank's collection.

SQUATAROLA, Cuv.

The GRAY PLOVER. *Squatarola helvetica*.
Sternum. England. Presented by T. Ingall, Esq.
Sternum. Europe. From M. Lefevre's collection.

VANELLUS, Linn.

The LAPWING SANDPIPER. *Vanellus cristatus*.
Sternum. England. Presented by John Ray, Esq.
Skull. England. Presented by John Ray, Esq.
Two Sterna. Europe. From M. Lefevre's collection.

The CAYENNE SANDPIPER. *Vanellus cayanensis*.
Skeleton. Mexico. From Mr. Warwick's collection.

HOPLOPTERUS, Bonap.

The BLACK-BELLIED PLOVER. *Hoplopterus ventralis*.
Two Sterna. Nepal. Presented by B. H. Hodgson, Esq.

LOBIVANELLUS, Strickl.

The GOA SANDPIPER. *Lobivanellus goensis*.
Sterna. Nepal. Presented by B. H. Hodgson, Esq.

CHARADRIUS, Linn.

The MARBLED PLOVER. *Charadrius virginicus*.
Sterna. Nepal. Presented by B. H. Hodgson, Esq.

HIATICULA, G. R. Gray.

The RINGED PLOVER. *Hiaticula torquata*.
Sternum. England. Presented by T. Ingall, Esq.
Sternum. England. Presented by John Ray, Esq.
Sternum. Europe. From M. Lefevre's collection.

GEOFFROY'S RING PLOVER. *Hiaticula Geoffroyii*.
Sterna. Nepal. Presented by B. H. Hodgson, Esq.

The KENTISH PLOVER. *Hiaticula cantiana*.
Sternum. England. Presented by John Ray, Esq.

The CURONION PLOVER. *Hiaticula curonica*.
Two Sterna. Nepal. Presented by B. H. Hodgson, Esq.

EUDROMIAS, Boie.

The DOTTEREL PLOVER. *Eudromias morinella*.
Sternum. England. Presented by John Ray, Esq.
Sternum. Europe. From M. Lefevre's collection.

HÆMATOPUS, Linn.

The OYSTER-CATCHER. *Hæmatopus ostralegus*.
Sternum. England. Presented by T. Ingall, Esq.
Skull. England.
Trachea. England.
Skull. England. Presented by John Ray, Esq.
Sternum. Europe. From M. Lefevre's collection.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

STREPSILAS, Ill.

The TURNSTONE SANDPIPER. *Strepsilas interpres*.
Sternum. England. Presented by John Ray, Esq.

Fam. 3. ARDEIDÆ.

The BRAZILIAN CARIAMA. *Cariama cristata*.
Skeleton. Presented by Mr. Tyler.

GRUS, Linn.

The COMMON CRANE. *Grus cinerea*.
Sternum. Europe. From M. Lefevre's collection.

ANTHROPOIDES, Vieill.

The DEMOISELLE HERON. *Anthropoides virgo*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.
Trachea ———?
Skull. Nepal. Presented by B. H. Hodgson, Esq.

ARDEA, Linn.

The COMMON HERON. *Ardea cinerea*.
Sternum. England.

Sternum. England. Presented by John Ray, Esq.
Two Sterna. Europe. From M. Lefevre's collection.

The CRESTED PURPLE HERON. *Ardea purpurea*.
Trachea. England. From Col. Montagu's collection.
Sternum. Europe. From M. Lefevre's collection.

The GREAT INDIAN HERON. *Ardea nobilis*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

The BLACK-HEADED HERON. *Ardea melanocephalus*.
Skeleton. Presented by the Earl of Derby.

HERODIAS, Boie.

The LITTLE EGRETT. *Herodias gargetta*.
Sternum. Europe. From M. Lefevre's collection.

The *Herodias* _____?
Skeleton. Chili. From Mr. Warwick's collection.

ARDEOLA, Boie.

The CABOGA HERON. *Ardeola bubulcus*.
Skeleton.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

ARDETTA, G. R. Gray.

The WHITE-THROATED HERON. *Ardetta javanica*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

NYCTICORAX, Steph.

The NIGHT HERON. *Nycticorax griseus*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.
Sternum. Europe. From M. Lefevre's collection.

BOTAURUS, Steph.

The BITTERN. *Botaurus stellaris*.
Trachea. England.
Sternum. England.
Sternum. England. Presented by John Ray, Esq.
Two Sterna. Europe. From M. Lefevre's collection.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

PLATALEA, Linn.

The WHITE SPOONBILL. *Platalea leucorodia*.
Sternum. England. Presented by John Ray, Esq.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

The **YELLOW-LEGGED SPOONBILL**. *Platalea flavipes*.
Sternum. South Australia. Presented by His Excellency Capt.
G. Grey.

CICONIA, Linn.

The **VIOLET STORK**. *Ciconia leucocephala*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

LEPTOPTILOS, Less.

The **GIGANTIC CRANE**. *Leptoptilos argala*.
Skeleton. Nepal. Presented by B. H. Hodgson, Esq.
Sternum. India. Presented by Major General Hardwicke.

TANTALUS, Linn.

The **WHITE-HEADED IBIS**. *Tantalus leucocephalus*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

The **INDIAN WHITE IBIS**. *Tantalus lacteus*.
Skeleton. From M. Frank's collection.

THRESKIORNIS, G. R. Gray.

The **ETHIOPIAN IBIS**. *Threskiornis æthiopica*.
Skull. Egypt?

The **BLACK-HEADED IBIS**. *Threskiornis melanocephala*.
Skeleton. From M. Frank's collection.

GERONTICUS, Wagl.

The **WARTY-HEADED IBIS**. *Geronticus papillosus*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

IBIS, Mæhr.

The **Ibis** ———?
Skeleton. Mexico. From Mr. Warwick's collection.

Fam.'4. *SCOLOPACIDÆ.*

NUMENIUS, Linn.

The **COMMON CURLEW**. *Numenius arquatus*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

The **WHIMBREL**. *Numenius phæopus*.
Trachea. England.
Sternum. England. Presented by T. Ingall, Esq.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

LIMOSA, Briss.

- The BLACK-TAILED GODWIT. *Limosa melanura*.
 Sternum. England. Presented by T. Ingall, Esq.
 Skull. England.
 Sternum. Nepal. Presented by B. H. Hodgson, Esq.

- The RED GODWIT. *Limosa lapponica*.
 Sternum. England. Presented by John Ray, Esq.

IBIDORHYNCHUS, Vigors.

- STRUTHER'S IBIDORHYNCHUS. *Ibidorhynchus Struthersii*.
 Sternum. Nepal. Presented by B. H. Hodgson, Esq.

RECURVIROSTRA, Linn.

- The SCOOPING AVOCET. *Recurvirostra avocetta*.
 Sternum. England. Presented by John Ray, Esq.

HIMANTOPUS, Briss.

- The LONG-LEGGED PLOVER. *Himantopus candidus*.
 Sternum. Nepal. Presented by B. H. Hodgson, Esq.
 Sternum. Europe. From M. Lefevre's collection.

- The WHITE-HEADED HIMANTOPUS. *Himantopus leucocephalus*.
 Sternum. South Australia. Presented by His Excellency Capt. G. Grey.

GLOTTIS, Nils.

- The GREENSHANK SNIPE. *Glottis canescens*.
 Sternum. England. Presented by John Ray, Esq.

- The INDIAN GREENSHANK. *Glottis Vigorii*.
 Two Sterna. Nepal. Presented by B. H. Hodgson, Esq.

TOTANUS, Bechst.

- The RED-SHANKED SANDPIPER. *Totanus calidris*.
 Sternum. England. Presented by John Ray, Esq.
 Sternum. Nepal. Presented by B. H. Hodgson, Esq.

- The WOOD SANDPIPER. *Totanus glareola*.
 Sternum. Nepal. Presented by B. H. Hodgson, Esq.

- The GREEN SANDPIPER. *Totanus ochropus*.
 Sternum. England. Presented by John Ray, Esq.

- The COMMON SANDPIPER. *Totanus hypoleucus*.
 Sternum. Nepal. Presented by B. H. Hodgson, Esq.
 Skull. England. Presented by John Ray, Esq.

PHILOMACHUS, Mahr.

- The RUFF SANDPIPER. *Philomachus pugnax*.
Two Sterna. England. Presented by T. Ingall, Esq.
Sternum. England. Presented by John Ray, Esq.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

TRINGA, Linn.

- The KNOT SANDPIPER. *Tringa canutus*.
Sternum. England. Presented by John Ray, Esq.

- The SCHINGER SANDPIPER. *Tringa maritima*.
Sternum. England. Presented by T. Ingall, Esq.
Sternum. England.

SCHÆNICLUS, Mahr.

- The PURRE SANDPIPER. *Schæniclus cinclus*.
Sternum. England. Presented by John Ray, Esq.

- The RED DUNLIN. *Schæniclus subarquatus*.
Sternum. England. Presented by John Ray, Esq.

- The LITTLE STINT. *Schæniclus minutus*.
Sternum. England. Presented by T. Ingall, Esq.
Sternum. England. Presented by John Ray, Esq.
Skull. England. Presented by John Ray, Esq.

- TEMMINCK'S SANDPIPER. *Schæniclus Temminckii*.
Two Sterna. Nepal. Presented by B. H. Hodgson, Esq.

CALIDRIS, Cuv.

- The SANDERLING. *Calidris arenaria*.
Sternum. England. Presented by T. Ingall, Esq.

LOBIPES, Cuv.

- The RED PHALAROPE. *Lobipes hyperboreus*.
Sternum. Europe. From M. Lefevre's collection.

RHYNCHÆA, Cuv.

- The SHORT-WINGED PAINTED SNIPE. *Rhynchæa bengalensis*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

- The SOUTH AMERICAN PAINTED SNIPE. *Rhynchæa Hilarea*.
Skeleton. Chili. From Mr. Warwick's collection.

SCOLOPAX, Linn.

- The WOODCOCK. *Scolopax rusticola*.
Two Sterna. Nepal. Presented by B. H. Hodgson, Esq.

GALLINAGO, Steph.

The GREAT SNIPE. *Gallinago major*.
Sternum. England. Presented by John Ray, Esq.

The COMMON SNIPE. *Gallinago media*.
Sternum. England. Presented by John Ray, Esq.

The JACK SNIPE. *Gallinago gallinula*.
Two Sterna. England. Presented by T. Ingall, Esq.
Sternum. England. Presented by John Ray, Esq.

MACRORAMPHUS, Leach.

The BROWN SNIPE. *Macroramphus griseus*.
Sternum. Europe. From M. Lefevre's collection.

METOPODIUS, Wagl.

The BRONZE JACANA. *Metopodius indicus*.
Three Sterna. Nepal. Presented by B. H. Hodgson, Esq.

HYDROPHASIANUS, Wagl.

The CHINESE JACANA. *Hydrophasianus sinensis*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

Fam. 5. RALLIDÆ.

RALLUS, Linn.

The WATER RAIL. *Rallus aquaticus*.
Sternum. England. Presented by T. Ingall, Esq.
Sternum. England. Presented by John Ray, Esq.

ORTYGOMETRA, Linn.

The SPOTTED RAIL. *Ortygometra porzana*.
Sternum. England. Presented by T. Ingall, Esq.
Sternum. England. Presented by John Ray, Esq.

The CRAKE GALLINULE. *Ortygometra crex*.
Sternum. Europe. From M. Lefevre's collection.

PORPHYRIO, Briss.

The INDIAN PORPHYRIO. * *Porphyrio indicus*.
Skeleton. From M. Frank's collection.

GALLINULE, *Briss.*

The COMMON GALLINULE. *Gallinula chloropus*.
 Sternum. England. Presented by John Ray, Esq.
 Sternum. Europe. From M. Lefevre's collection.
 Sternum. Nepal. Presented by B. H. Hodgson, Esq.

FULICA, *Linn.*

The COMMON COOT. *Fulica atra*.
 Two Sterna. Europe. From M. Lefevre's collection.

Order V. ANSERES.**Fam. I. ANATIDÆ.****PHÆNICOPTERUS, *Linn.***

The AMERICAN FLAMINGO. *Phœnicopterus ruber*.
 Skeleton. From Mr. Warwick's collection.

ANSERANAS, *Less.*

The BLACK AND WHITE GOOSE. *Anseranas melanoleuca*.
 Trachea. Port Essington. Presented by Dr. Sinclair, R. N.

CHENALOPEX, *Steph.*

The EGYPTIAN GOOSE. *Chenalopez ægyptiaca*.
 Sternum. N. Africa.
 Sternum. Europe. From M. Lefevre's collection.

BERNICLA, *Steph.*

The BRENT GOOSE. *Bernicla brenta*.
 Three Tracheæ (imperfect). England.
 Sternum. England.
 Two Sterna. Europe. From M. Lefevre's collection.

The BERNICLE GOOSE. *Bernicla leucopsis*.
 Sternum. England. Presented by John Ray, Esq.

ANSER, *Briss.*

The GRAY-LEGGED GOOSE. *Anser ferus*.
 Sternum. Europe. From M. Lefevre's collection.

The BEAN GOOSE. *Anser segetum*.
 Two Tracheæ. England.
 Sternum. Europe. From M. Lefevre's collection.

The **WHITE-FRONTED GOOSE**. *Anser erythropus*.
Trachea. England.
Sternum. England. Presented by John Ray, Esq.

The **SHORT-BILLED GOOSE**. *Anser brachyrhynchus*.
Sternum. England. Presented by John Ray, Esq.

The
Trachea. England. *Anser* ———?

CYGNUS, Linn.

The **WHISTLING SWAN**. *Cygnus musicus*.
Sternum. Europe. From M. Lefevre's collection.
Part of the Trachea in the keel of the Sternum.
Skull and leg. Nepal. Presented by B. H. Hodgson, Esq.

The **BLACK-NECKED SWAN**. *Cygnus nigricollis*.
Skeleton. Chili. From Mr. Bridges' collection.

The **BLACK SWAN**. *Cygnus plutonicus*.
Skeleton. From Mr. Gerrard's collection.

TADORNA, Leach.

The **SHEILDRAKE**. *Tadorna Bellonii*.
Sternum. England. Presented by John Ray, Esq.
Two Sterna. Europe. From M. Lefevre's collection.
Four Trachea. England.

CASARCA, Bonap.

The **RUDDY GOOSE**. *Casarca rutila*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

AIX, Boie.

The **SUMMER DUCK**. *Aix sponsa*.
Sternum. North America. Presented by John Ray, Esq.

MARECA, Steph.

The **WIDGEON**. *Mareca Penelope*.
Two Sterna. Nepal. Presented by B. H. Hodgson, Esq.
Trachea. England.
Trachea. England. Presented by T. Ingall, Esq.
Sternum. England. Presented by T. Ingall, Esq.
Sternum. England.

ANAS, Linn.

The **WILD DUCK**. *Anas Boschas*.
Sternum. England. Presented by T. Ingall, Esq.

Four Tracheæ. England.

Sternum. Presented by John Ray, Esq.

Skull. England. Presented by John Ray, Esq.

Sternum. Europe. From M. Lefevre's collection.

The PINK-HEADED DUCK. *Anas caryophyllacea*.

Sternum. Nepal. Presented by B. H. Hodgson, Esq.

The *Anas* ——— ?

Sternum. Europe. From M. Lefevre's collection.

The *Anas* ——— ?

Two Sterna. Europe. From M. Lefevre's collection.

The *Anas* ——— ?

Skeleton. Chili. From Mr. Warwick's collection.

DAFILA, Leach.

The PIN-TAILED DUCK. *Dafila acuta*.

Sternum. England. Presented by T. Ingall, Esq.

Sternum. Nepal. Presented by B. H. Hodgson, Esq.

Sternum. England. Presented by John Ray, Esq.

Trachea. England.

CHAULELASMUS, G. R. Gray.

The GADWAL DUCK. *Chaulelasmus streperus*.

Sternum. England. Presented by T. Ingall, Esq.

Sternum. Nepal. Presented by B. H. Hodgson, Esq.

Trachea. England. Presented by T. Ingall, Esq.

Three Tracheæ. England.

QUERQUEDULA, Steph.

The COMMON TEAL. *Querquedula crecca*.

Sternum. England. Presented by T. Ingall, Esq.

Two Tracheæ. England.

Sternum. England. Presented by John Ray, Esq.

Skull. England. Presented by John Ray, Esq.

Two Sterna. Nepal. Presented by B. H. Hodgson, Esq.

The GARGANEY TEAL. *Querquedula circia*.

Sternum. England. Presented by T. Ingall, Esq.

Two Trachea. England.

Sternum. England. Presented by John Ray, Esq.

RAFFLE'S TEAL? *Querquedula cæruleata*?

Skeleton. Chili. From Mr. Warwick's collection.

The FASCATED TEAL. *Querquedula maculirostris*.

Skeleton. Chili. From Mr. Warwick's collection.

SPATULA, *Boie.*

- The SHOVELLER DUCK. *Spatula clypeata.*
 Trachea. England. Presented by T. Ingall, Esq.
 Sternum. England. Presented by T. Ingall, Esq.
 Six Tracheæ. England.
 Sternum. England. Presented by John Ray, Esq.

OIDEMIA, *Flem.*

- The VELVET DUCK. *Oidemia fusca.*
 Trachea. England.
 Three Sterna. Europe. From M. Lefevre's collection.

- The SCOTER DUCK. *Oidemia nigra.*
 Trachea. England.
 Three Tracheæ (imperfect).
 Sternum. England. Presented by John Ray, Esq.
 Two Sterna. Europe. From M. Lefevre's collection.

- The EIDER DUCK. *Oidemia mollissima.*
 Trachea. England.
 Four Sterna. Europe. From M. Lefevre's collection.

- The *Oidemia* ———?
 Sternum. Europe. From M. Lefevre's collection.

BRANTA, *Boie.*

- The RED-CRESTED DUCK. *Branta rufina.*
 Sternum. Nepal. Presented by B. H. Hodgson, Esq.
 Sternum. England. Presented by John Ray, Esq.

FULIGULA, *Steph.*

- The TUFTED DUCK. *Fuligula cristata.*
 Three Tracheæ. England.
 Four Tracheæ (imperfect).
 Sternum. England.
 Sternum. England. Presented by John Ray, Esq.
 Sternum. Nepal. Presented by B. H. Hodgson, Esq.

- The SCAUP DUCK. *Fuligula marila.*
 Two Tracheæ. England.

NYROCA, *Flem.*

- The POCHARD DUCK. *Nyroca ferina.*
 Trachea. England. Presented by T. Ingall, Esq.
 Sternum. England. Presented by T. Ingall, Esq.
 Three Tracheæ. England.
 Sternum. England. Presented by John Ray, Esq.
 Sternum. Europe. From M. Lefevre's collection.

The NYROCA DUCK. *Nyroca africana*.

- Trachea. England. Presented by T. Ingall, Esq.
 Trachea, female. England. Presented by T. Ingall, Esq.
 Sternum. England. Presented by T. Ingall, Esq.
 Sternum. England. Presented by John Ray, Esq.

CLANGULA, *Flem.*The GOLDEN-EYED DUCK. *Clangula glaucion*.

- Six Tracheæ. England.
 Sternum. England. Presented by John Ray, Esq.
 Four Sterna. Europe. From M. Lefevre's collection.

The HARLEQUIN DUCK. *Clangula histrionica*.

- Skeleton. Europe.
 Two Sterna. Europe. From M. Lefevre's collection.

HARELDA, *Leach.*The LONG-TAILED DUCK. *Harelda glacialis*.

- Trachea (imperfect). Europe.
 Trachea. Europe.

ERISMATURA, *Bonap.*The FERRUGINOUS DUCK. *Erismatura ferruginea*.

- Skeleton. Chili. From Mr. Warwick's collection.

MERGUS, *Linn.*The GOOSANDER MERGANSER. *Mergus merganser*.

- Three Tracheæ. England.

The RED-BREASTED MERGANSER. *Mergus serrator*.

- Trachea, female. England.

Trachea, male. England.

Sternum. England.

Sternum. England. Presented by John Ray, Esq.

Skeleton. England.

Two Sterna. Europe. From M. Lefevre's collection.

The

Mergus ———?

Trachea. England.

The HOODED MERGANSER. *Mergus cucullatus*.

Sternum. England. Presented by John Ray, Esq.

The SMEW MERGANSER. *Mergus albellus*.

Four Tracheæ. England.

Sternum. England. Presented by John Ray, Esq.

Sternum. Europe. From M. Lefevre's collection.

Fam. 2. COLYMBIDÆ.

COLYMBUS, *Linn.*

The NORTHERN DIVER. *Colymbus glacialis*.
 Skeleton. N. Europe.
 Sternum. England.
 Sternum. England. Presented by John Ray, Esq.
 Two Tracheæ. England.
 Sternum. Europe. From M. Lefevre's collection.

The RED-THROATED DIVER. *Colymbus septentrionalis*.
 Sternum. England. Presented by John Ray, Esq.

The BLACK-THROATED DIVER. *Colymbus arcticus*.
 Sternum. Europe. From M. Lefevre's collection.

The *Colymbus* ———?
 Two Tracheæ. England.

PODICEPS, *Lath.*

The CRESTED GREBE. *Podiceps cristatus*.
 Trachea. England.
 Sternum. England. Presented by John Ray, Esq.
 Sternum. England. Presented by John Ray, Esq.

The RED-NECKED GREBE. *Podiceps rubricollis*.
 Sternum. England. Presented by John Ray, Esq.

The DUSKY GREBE. *Podiceps cornutus*.
 Sternum. England. Presented by T. Ingall, Esq.
 Two Tracheæ. England.
 Sternum. England. Presented by John Ray, Esq.

The EARED GREBE. *Podiceps auritus*.
 Sternum. England. Presented by John Ray, Esq.
 Two Sterna. Europe. From M. Lefevre's collection.

The LITTLE GREBE. *Podiceps minor*.
 Sternum. England. Presented by John Ray, Esq.

The SOUTH AMERICAN GREBE. *Podiceps kalipareus*.
 Skeleton. Chili. From Mr. Warwick's collection.

ROLLAND'S GREBE. *Podiceps Rollandii*.
 Skeleton. Strait of Magellan. From Mr. Warwick's collection.

Fam. 3. ALCIDÆ.

ALCA, *Linn.*

- The RAZOR-BILL. *Alca torda*.
 Sternum. England.
 Sternum. England. Presented by John Ray, Esq.
 Two Sterna. Europe. From M. Lefevre's collection.

FRATERCULA, *Briss.*

- The PUFFIN AUK. *Fratercula arctica*.
 Three Sterna. Europe. From M. Lefevre's collection.
 Skeleton. Europe. From M. Lefevre's collection.

URIA, *Mæhr.*

- The BLACK GUILLEMOT. *Uria grylle*.
 Skeleton.
 Skeleton.
 Sternum. Europe. From M. Lefevre's collection.

The FOOLISH GUILLEMOT. *Uria troile*.

- Sternum. England. Presented by T. Ingall, Esq.
 Skull. England. Presented by John Ray, Esq.
 Two Sterna. Europe. From M. Lefevre's collection.

Fam. 4. LARIDÆ.

PUFFINUS. *Briss.*

- The MANKS PETREL. *Puffinus Anglorum*.
 Sternum. Europe. From M. Lefevre's collection.

The SHEARWATER PETREL. *Puffinus major*.

- Sternum. From M. Lefevre's collection.
 Skeleton. Europe. From M. Lefevre's collection.

THALASSIDROMA, *Vigors.*

- The STORMY PETREL. *Thalassidroma pelagica*.
 Three Sterna. England. Presented by John Ray, Esq.

LEACH'S PETREL. *Thalassidroma Leachii*.

- Sternum. Europe. From M. Lefevre's collection.

- The *Thalassidroma* ———?
 Skeleton. Cape Lewin, Australia. From Mr. Warwick's collection.

PROCELLARIA, *Linn.*

The FULMAR PETREL. *Procellaria glacialis*.
 Sternum. Europe. From M. Lefevre's collection.
 Skeleton. Europe. From M. Lefevre's collection.

DIOMEDEA, *Linn.*

The WANDERING ALBATROSS. *Diomedea exulans*.
 Skull.

The SOOTY ALBATROSS. *Diomedea fuliginosa*.
 Skull.

STERCORARIUS, *Brisson*.

The ARCTIC GULL. *Stercorarius parasiticus*.
 Sternum. Europe. From M. Lefevre's collection.
 Skeleton. Europe. From M. Lefevre's collection.

The SKUA GULL. *Stercorarius catarractes*.
 Sternum. Europe. From M. Lefevre's collection.

The POMARINE GULL. *Stercorarius pomarinus*.
 Sternum. Europe. From M. Lefevre's collection.

The *Stercorarius* ———?
 Sternum. Europe. From M. Lefevre's collection.

LARUS, *Linn.*

The BLACK-BACKED GULL. *Larus marinus*.
 Sternum. England. Presented by John Ray, Esq.
 Skull. England. Presented by John Ray, Esq.
 Skull? England.
 Sternum. Europe. From M. Lefevre's collection.

The *Larus islandicus*.
 Sternum. England. Presented by John Ray, Esq.

The SILVERY GULL. *Larus argentatus*.
 Sternum. England. Presented by John Ray, Esq.

The COMMON GULL. *Larus canus*.
 Sternum. England. Presented by John Ray, Esq.

The *Larus* ———?
 Three Sterna. Europe. From M. Lefevre's collection.

XEMA, *Leach*.

The BLACK-HEADED GULL. *Xema ridibunda*.
 Sternum. England. Presented by T. Ingall, Esq.
 Sternum. Europe. From M. Lefevre's collection.

The **LITTLE GULL**. *Xema minuta*.
Sternum. Europe. From M. Lefevre's collection.

Rissa, Leach.

The **KITTIWAKE GULL**. *Rissa tridactyla*.
Sternum. England. Presented by John Ray, Esq.
Sternum. Europe. From M. Lefevre's collection.

Pagophila, Kaup.

The **IVORY GULL**. *Pagophila eburneus*.
Sternum. Europe. From M. Lefevre's collection.

Sylochelidon, Brehm.

The **CASPIAN TERN**. *Sylochelidon caspia*.
Sternum. Europe. From M. Lefevre's collection.

Thalasseus, Boie.

The **SANDWICH TERN**. *Thalasseus cantianus*.
Sternum. England. Presented by T. Ingall, Esq.
Sternum. England. Presented by John Ray, Esq.

Sterna, Linn.

The **COMMON TERN**. *Sterna hirundo*.
Two *Sterna*. England. Presented by T. Ingall, Esq.
Two *Sterna*. England. Presented by John Ray, Esq.

The **ARCTIC TERN**. *Sterna macroura*.
Sternum. England. Presented by John Ray, Esq.

The **MINUTE TERN**. *Sterna minuta*.
Sternum. England. Presented by John Ray, Esq.

The *Sterna* ———?
Sternum. Europe. From M. Lefevre's collection.

Fam. 5. PELECANIDÆ.

Plotus, Linn.

The **BLACK-BELLIED DARTER**. *Plotus melanogaster*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.
Skeleton. India, Archipelago. From M. Frank's collection.

Sula, Briss.

The **GANNET**. *Sula bassana*.
Two *Tracheæ*. England.
Sternum. England. Presented by John Ray, Esq.
Seven *Sterna*. Europe. From M. Lefevre's collection.

PELECANUS, *Linn.*

The INDIAN PELICAN. *Pelecanus philippensis*.
Two Sterna. Nepal. Presented by B. H. Hodgson, Esq.

PHALACROCORAX, *Briss.*

The COMMON CORMORANT. *Phalacrocorax carbo*.
Skull. England.
Two Tracheæ. England.
Skeleton.
Sternum. England. Presented by John Ray, Esq.
Skull. England. Presented by John Ray, Esq.
Skeleton. England.
Three Sterna. Europe. From M. Lefevre's collection.

The SHAG. *Phalacrocorax graculus*.
Two Tracheæ. England.

The DWARF SHAG. *Graculus pygmæus*.
Sternum. Nepal. Presented by B. H. Hodgson, Esq.

Class III. REPTILIA.

Order I. SAURA.

Fam. GECKOTIDÆ.

GECKO, *Linn.*

The GECKO. *Gecko verus*.
Skull. From Dr. Mantell's collection.

Fam. IGUANIDÆ.

IGUANA, *Laur.*

The IGUANA. *Iguana tuberculata*.
Skull. S. America. Presented by Capt. Sir Edward Belcher.

Fam. AGAMIDÆ.

HATTERIA, *Gray.*

The TUATERA OR NARARA. *Hatteria punctata*.
Skeleton. N. Zealand. Presented by F. Knox, M.D.

Fam. CHAMELEONIDÆ.

CHAMELEO, *Linn.*

The CHAMELEON. *Chameleo vulgaris*.
Skull. From Dr. Mantell's collection.

Order II. OPHIDIA.

Fam. BOIDÆ.

PYTHON, *Cuv.*

The ROCK SNAKE. *Python* ———
Skeleton. India.
Skull. Nepal. Presented by B. H. Hodgson, Esq.

Fam. COLUBRIDÆ.

COLUBER, *Linn.*

The SNAKE. *Coluber* ———
Skeleton.

The SNAKE. *Coluber* ———
Skeleton. India Presented by General T. Hardwicke.

The DAMEN. *Coluber* ———?
Skeleton. India. Presented by General T. Hardwicke.

Order III. CHELONIA.

Fam. 1. TESTUDINIDÆ.

The GOPHER. *Testudo Gopher*.
Shell, adult. N. America. Presented by R. Harlan, M.D.
Shell, adult. N. America. Presented by E. Doubleday, Esq.

The BRAZILIAN TORTOISE. *Testudo tabulata*.
Seven Shells, adult. Sternum concave. Tropical America.
Shell, adult. Sternum flat. Tropical America.
Skeleton and Shell. Tropical America.

The INDIAN TORTOISE. *Testudo Indica*.
Shell, adult. India.
Shell, very young. India. Presented by J. E. Gray, Esq.
Shell, adult. India.
Shell, very young. Bengal. Presented by Gen. Hardwicke.

- Four Shells, young. India.
 Shell, very young. India.
 Shell and animal. India.
 Upper Shell only, adult. India. Presented by E. Cross, Esq.
 The COUI. *Testudo radiata*.
 Shell, upper only. Madagascar. From the Museum of the
 Royal Society.
 Two Shells, upper only. Madagascar. Presented by Gen. Hard-
 wicke.
 Shell and animal.
 Shell, wanting some plates.
 Three Shells, young.
 Shell, half grown.
 The GROOVED TORTOISE. *Testudo sulcata*.
 Shell and animal. Abyssinia. From the Franckfort Museum.
 Adult, imperfect. S. Africa.
 DR. HORSFIELD'S TORTOISE. *Testudo Horsfieldii*.
 Shell, young. Afghanistan. Presented by the Hon. East
 India Company.
 The LEOPARD TORTOISE. *Testudo Pardalis*.
 Sternum only. S. Africa.
 Shell and animal. S. Africa.
 Shell, young. S. Africa.
 Bones of interior.
 The STARRED TORTOISE. *Testudo stellata*.
 Shell, adult. Ceylon. Presented by J. E. Gray, Esq.
 Shell, adult. Ceylon.
 Shell, without sternum. Ceylon.
 Shell, young.
 Shell, adult. Philippines.
 The TOOTHED CAPE TORTOISE. *Testudo semi-serrata*.
 Four Shells, adult, with animal. S. Africa.
 The GEOMETRIC TORTOISE. *Testudo geometrica*.
 Five Shells, wanting front bone of sternum. S. Africa.
 Shell. S. Africa. Presented by Gen. Hardwicke.
 Shell, wanting a few plates. S. Africa.
 Shell, young.
 Shell, young, with animal. Presented by R. Brown, Esq.
 Shell, young.
 Shell, and animal, young. S. Africa.
 The MARGINED TORTOISE. *Testudo marginata*.
 Shell, young. S. Europe. Presented by J. E. Gray, Esq.

The TARTARUGA. *Testudo græca.*

- Shell. S. Europe. Presented by G. R. Gray, Esq.
 Two Shells. S. Europe. Presented by Gen. Hardwicke.
 Four Shells. S. Europe.
 Shell. S. Europe. Presented by J. E. Gray, Esq.
 Two Shells. S. Europe. Presented by Gen. Hardwicke.

The AREOLATED TORTOISE. *Homopus areolatus.*

- Shell. S. Africa. Presented by R. Brown, Esq.
 Shell. S. Africa. Presented by J. E. Gray, Esq.
 Shell and animal. S. Africa.

The SPECKLED TORTOISE. *Homopus signatus.*

- Shell, very young, in spirits. S. Africa.
 Shell, very young, dry. Isle of France?

The ANGULATED TORTOISE. *Chersna angulata.*

- Shell adult, worn. S. Africa. Presented by J. E. Gray, Esq.
 Two Shells, half grown. S. Africa. Presented by R. Brown, Esq.
 Shell, young. S. Africa. Presented by J. E. Gray, Esq.

HOME'S KINYXIS. *Kinyxis Homeana.*

- Shell, adult. Demerara? Presented by Sir E. Home, Bart.
 Shell, adult. Cape Coast, Africa. Presented by Lieut. W. Friend, R.N.

The ERODED KINYXIS. *Kinyxis erosa.*

- Shell, adult. W. Africa, Gambia.
 Two Shells, half grown. W. Africa.

BELL'S KINYXIS. *Kinyxis Belliana.*

- Shell, much rubbed. W. Africa. Presented by J. E. Gray, Esq.
 Shell. Gambia. Presented by J. Whitfield, Esq.

Fam. EMYDÆ.

The TOOTHED LAND EMYDÆ. *Geoemyda Spengleri.*

- Shell, adult. China. Presented by J. Reeves, Esq.
 Shell, adult. Africa.

The SPINED LAND EMYDÆ. *Geoemyda spinosa.*

- Shell, adult. Sumatra.
 Shell and animal in spirits. Sumatra.

The PANYSHURE. *Emys' tectum.*

- Three Shells. India.
 Shell, in spirits. India.
 Shell. India. Presented by J. E. Gray, Esq.

The DURA. *Emys tentoria.*

- Shell, adult. Deccan. Presented by Colonel Sykes.

The THICK-NECKED EMYS. *Emys crassicollis*.

Shell. Sumatra. Presented by T. Bell, Esq.

Shell and animal, half-grown. Sumatra.

Three Shells and animals. Sumatra.

The THREE-KEELED EMYS. *Emys triguga*.

Shell and animal. India. Presented by J. E. Gray, Esq.

Shell. India.

The FLAT-BACKED EMYS. *Emys platynota*.

Shell, adult. Sumatra.

The THURGI. *Emys Thurgi*.

Shell, adult. India, Bengal.

Shell, young. India, Bengal.

The CHINESE EMYS. *Emys Chinensis*.

Shell, adult. China. Presented by J. Reeves, Esq.

BEAL'S EMYS. *Emys Bealii*.

Shell and animal, adult. China. Presented by J. Reeves, Esq.

Shell, adult. China. Presented by J. Reeves, Esq.

REEVE'S EMYS. *Emys Reevesii*.

Shell and animal, dry. China. Presented by J. Reeves, Esq.

Shell. China. Presented by J. Reeves, Esq.

DR. CANTOR'S EMYS. *Emys mutica*.

Shell and animal, dry. China. Presented by the Hon. East India Company.

The BLACKISH EMYS. *Emys nigricans*.

Shell, margin broken. China. Presented by J. R. Reeves, Esq.

HAMILTON'S EMYS. *Emys Hamiltonii*.

Shell and animal, dry. India, Bengal.

Shell and animal, in spirits.

The TRIGAME. *Emys japonica*.

Shell and animal, in spirits. Japan.

Shell and animal, in spirits. Japan.

The CASPIAN EMYS. *Emys Caspica*.

Shell, half-grown. Europe. Presented by T. Bell, Esq.

Shell, young, 3-keels. Europe. Presented by J. E. Gray, Esq.

Shell, adult. Europe.

Shell and animal, adult. S. France?

The ROUGH EMYS. *Emys scabra*.

Shell, young. Tropical America.

The GEOGRAPHIC EMYS. *Emys geographica*.

Shell and animal. North America.

Shell and animal. North America.

The **POTTER, OR RED-BELLIED TERRAPIN.** *Emys serrata.*

Shell and animal. North America.

Shell, adult. North America.

Shell, adult. North America.

Shell, half-grown. North America.

The **NETTED EMYS.** *Emys reticulata.*

Shell, adult. North America.

The **BEAUTIFUL EMYS.** *Emys ornata.*

Shell and animal. Tropical America.

Shell, adult. Tropical America. Presented by J. E. Gray, Esq.

Shell and animal, dry, young. Tropical America.

Shell and animal, in spirits. Tropical America. Presented by Alexander Collier, Esq.

The **LETTERED EMYS.** *Emys scripta.*

Shell with animal, adult. North America.

Shell, young. North America. Presented by General Hardwicke.

Shell, young. North America.

Shell, half-grown. North America.

Shell and animal, in spirits. North America.

HOLBROOK'S EMYS. *Emys Holbrookii.*

Shell. Louisiana.

The **HICOTEE.** *Emys decussata.*

Shell and animal, half-grown. West Indies. Presented by J.

E. Gray, Esq.

Shell, half-grown. West Indies.

Skeleton and shell. West Indies.

Shell, adult. West Indies.

Shell, adult. West Indies. Presented by J. E. Gray, Esq.

Shell, half-grown. West Indies. Presented by J. E. Gray, Esq.

Shell, half-grown. West Indies.

TROOST'S EMYS. *Emys Troostii.*

Shell and animal. North America.

The **VERMICULATED EMYS.** *Emys vermiculata.*

Shell, adult. Tropical America?

Shell, adult. Tropical America.

The **HIEROGLYPHIC EMYS.** *Emys Hieroglyphica.*

Shell and animal. America. Presented by J. E. Gray, Esq.

The **SPECKLED TORTOISE.** *Emys guttata.*

Shell and animal. North America. Presented by H. Double-day, Esq.

Shell and animal. North America.

- The PAINTED TORTOISE. *Emys picta*.
 Shell. North America.
 Shell and animal. North America. Presented by J. E. Gray, Esq.
 Shell and animal, in spirits. North America.
 Shell. North America.
 Shell. North America.
 Shell and animal. North America. Presented by H. Doubleday, Esq.
 Shell and young. North America.
- The RINGED EMYS. *Emys annulifer*.
 Shell and animal, dry, very young ———?
- The SALT-WATER TERRAPIN. *Malaclemys concentrica*.
 Shell, smooth. North America. Presented by General Hardwicke.
 Shell, smooth. North America. Presented by the Earl of Derby.
 Shell, smooth. North America. Presented by General Hardwicke.
 Shell, ringed. North America. Presented by General Hardwicke.
 Shell, ringed. North America.
 Shell, ringed. North America.
 Shell and animal, dry. North America.
 Shell, young. California.
 Shell, young. North America. From Sloane's Museum.
- The BOX TORTOISE. *Cistuda Carolina*.
 Shell and animal, stuffed. North America. Presented by J. E. Gray, Esq.
 Shell and animal, stuffed. North America. Presented by Jacob Green, M.D.
 Shell. North America.
 Shell. North America.
 Shell and animal, dry, young. North America. Presented by General Hardwicke.
 Three Shells. North America.
 Shell and animal, dry. North America.
 Shell and animal, stuffed. North America.
 Shell and animal, stuffed. North America. Presented by H. Doubleday, Esq.
- The COURO. *Cistuda Amboinensis*.
 Shell and animal, stuffed. India. Presented by T. Bell, Esq.
 Shell, half-grown. India. Presented by J. E. Gray, Esq.
 Shell, young, in spirits. India.

- Shell, young, in spirits. India.
 Shell and animal, stuffed, half-grown. Singapore.
 Shell, adult, in spirits. Amboina.
- The THREE-STREAKED COURO. *Cistuda trifasciata*.
 Shell and animal, dry, subovate. China. Presented by J. Reeves, Esq.
 Shell, depressed. China. Presented by J. Reeves, Esq.
 Shell, elevated. China. Presented by J. Reeves, Esq.
 Shell, subovate. China. Presented by J. Reeves, Esq.
- The SPECKLED TORROISE. *Cistuda Europea*.
 Shell, adult. South Europe.
 Shell and animal, dry. South Europe.
 Shell, imperfect, half-grown. South Europe. Presented by T. Bell, Esq.
 Shell and animal, in spirits. Asia Minor Presented by A. Christy, Esq.
- The DHOR. *Cistuda dentata*.
 Shell and animal, in spirits, young. Java. Presented by T. Bell, Esq.
 Shell and animal, in spirits, young. Java.
- The SWANKA. *Kinosternon scorpoides*.
 Shell. Tropical America. Presented by J. E. Gray, Esq.
 Shell and animal, stuffed. Tropical America.
 Shell and animal, dry. Tropical America.
 Shell and animal, in spirits. Tropical America. Presented by T. Bell, Esq.
- The OBLONG SWANKA. *Kinosternon oblongum*.
 Shell and animal, dry. Tropical America.
 Shell and animal, dry. Tropical America.
- DOUBLEDAY'S SWANKA. *Kinosternon Doubledayii*.
 Shell. Tropical America.
- The MUD TORTOISE. *Kinosternon Pensylvanicum*.
 Shell and animal, dry. North America.
 Shell.
 Shell and animal, in spirits. Presented by E. Doubleday, Esq.
- The STINK POT. *Kinosternon odoratum*.
 Shell. North America.
- The CROSS EMYS. *Kinosternon triporcatum*.
 Shell and animal, in spirits. Mexico.
- The ALLIGATOR TERRAPIN. *Chelydra serpentina*.
 Shell and animal, young, stuffed. North America. Presented by General Hardwicke.

Shell and animal, adult, stuffed. North America.

Shell and animal, young, in spirits. North America.

The **CASKED TERRAPIN**. *Platysternon megacephalum*.

Shell and animal, stuffed. China. Presented by J. R. Reeves, Esq.

The **BLACKISH STERNOTHERUS**. *Sternotherus subniger*.

Shell and animal, shell worn. Africa.

The **NATAL STERNOTHERUS**. *Sternotherus castaneus*.

Shell and animal, stuffed, $8\frac{1}{2}$ inches. Port Natal. From Dr. Krauss' collection.

LORD DERBY'S STERNOTHERUS. *Sternotherus Derbyanus*.

Shell and animal, stuffed. West Africa, Sierre Leone? Presented by the Earl of Derby.

The **GEHAFIA**. *Pelomedusa Gehafia*.

Shell and animal, adult, stuffed. Abyssinia. From Dr. Ruppell's collection.

The **REDDISH PELOMEDUSA**. *Pelomedusa subrufa*.

Shell and animal, stuffed, (plates worn smooth). Cape of Good Hope. Presented by J. E. Gray, Esq.

Shell, young (only two legs). Cape of Good Hope.

Shell, very young. Cape of Good Hope. Presented by J. S. Bowerbank, Esq.

The **GROOVED HYDRASPIS**. *Hydraspis Spixii*.

Shell, young, in spirits. South America. From M. Clausen's collection.

The **DEPRESSED HYDRASPIS**. *Hydraspis depressa*.

Young, in spirits. South America. Presented by Dr. Edward Ruppell.

The **BLACK HYDRASPIS**. *Hydraspis gibba*.

Shell and animal. Madagascar. From M. Parzudaki's collection.

The **VICTORIA CHELYMYS**. *Chelymys Macquaria*.

Shell, adult. Victoria River, N. W. Coast of Australia. Presented by Captain William Chambers, R.N.

Shell and animal. Australia. Presented by J. Gould, Esq.

The **YELLOW CHELODINE**. *Chelodina longicollis*.

Animal and shell, dry, depressed, oblong. Australia. Presented by Sir Joseph Banks. The specimen described by Shaw.

Shell and animal stuffed. Australia. Presented by J. Gould, Esq.

- The OBLONG CHELODINE. *Chelodina oblonga*.
Shell and animal, adult, stuffed. West Australia. Presented by
J. Gould, Esq.
Shell and animal, adult, stuffed. Port Essington. Presented by
Captain William Chambers, R.N.
Shell; very young, in spirits; the body scarcely larger than the
head. shell not solidified. Presented by Sir John Richardson,
M.D.
- PRINCE MAXIMILIAN'S HYDROMEDUSA. *Hydromedusa Maxi-*
miliانا.
Shells and animals, half-grown and young, in spirits. From M.
P. Clausen's collection.
- The MATAMATA. *Chelys Matamata*.
Shells and animals, adult, stuffed. South America.
- The TRACAXA. *Peltocephalus Tracaxa*.
Shell and animal, adult, stuffed. South America.

Fam. TRIONYCIDÆ.

- THE BUNGOMA. *Emyda punctata*.
Shells and animals, adult, stuffed. India. From M. Piquot's
collection.
Shell. India. From M. Piquot's collection.
Young, in spirits. India. From M. Piquot's collection.
Shell and animal, young, stuffed. From the Museum of the
Bengal Society.
Upper shield. Presented by General Thomas Hardwicke.
- The KAAREY. *Tyrse Gangetica*.
Young, in spirits. India.
Var. young, in spirits. India.
- The BOULOUSSE. *Tyrse Javanica*
Half-grown? in spirits. India.
Young, in spirits. India.
Shell and animal, stuffed. India. (Deccan). Presented by Col.
Sykes, F.R.S.
Very young, not in good state, in spirits. China. Presented by
W. Baird, M.D.
- The TYRSE. *Tyrse Nilotica*.
Shell and animal, adult. Egypt. Presented by Turnbull
Christie, M.D.
Young, stuffed. Egypt. Presented by Turnbull Christie, M.D.
Var. Half-grown, in spirits. West Africa.

The EYED TYRSE. *Tyrse Argus*.

Shell and animal, stuffed. West Africa, Sierre Leone? Presented by the Earl of Derby.

Two Skeletons. West Africa. Presented by — Whitfield, Esq.

The DOGANIA. *Dogania subplana*.

Shell and animal. India, Bengal? Presented by General Thomas Hardwicke.

Shell, in spirits. From the Leyden collection.

The SEWTEREE. *Chitra Indica*.

Shell and animal, stuffed, adult. Philippine Islands. From Mr. Cuming's collection.

Very young specimen, in spirits. India.

The FIERCE TRIONYX. *Trionyx ferox*.

Shell and animal, stuffed, adult. North America. Presented by the Royal Society. The specimen described and figured by Pennant, (restuffed).

Fam. 5. CHELONIAE.

The LETH. *Sphargis coriacea*.

Shell and animal, adult, stuffed. Coast of Dorsetshire.

Shell and animal, adult, (not in good state). West Indies, Nevis.

Presented by W. Cottle, Esq.

Young, in spirits. *Testudo tuberculata*.

The CAOUANNE OR LOGGERHEAD. *Caouana Caretta*.

Half-grown, in spirits.

Shell of back of half-grown animal.

Shell and animal, adult, stuffed. Atlantic Ocean.

Half-grown, stuffed. Atlantic Ocean.

Head, very large. (*C. Rupellii, Gray*). India? Presented by Thomas Bell, Esq.

— Coast of Devonshire. Presented by W. Wilson, Esq.

The LONG CAOUANNE. *Caouana elongata*.

Shell of adult.

The OLIVE CAOUANNE. *Caouana olivacea*.

Very young, in spirits. Philippine Islands.

Shell and animal, adult, stuffed.

The CARET. *Caretta imbricata*.

Shell and animal, half-grown, stuffed.

Upper shield, younger.

Shell and animal, stuffed, young.

Lower shield.

Very young, stuffed (wants one fin).

- The CAREY. *Chelonia virgata*.
 Young, upper shield only. Atlantic Ocean. Presented by W. Eling, Esq.
 Shell and animal, adult, stuffed. South America.
 Upper shield only, half-grown. South America?
 The GREEN TURTLE. *Chelonia viridis*.
 Shell and animal, stuffed, half-grown. Brazils.
 Shell and animal, stuffed, half-grown, wants some plates. From Dr. Mantell's collection.
 Very young. Ascension. Presented by J. R. Reeves, Esq.
 Very young. Ascension. Presented by Captain Sir Edward Belcher, C.B.
 Very young, in spirits. Ascension. Presented by Captain Sir Edward Belcher, C.B.
 Var. very young, in spirits. Ascension. Presented by Captain Sir Edward Belcher, C.B.
 Var. very young, in spirits. Ascension. Presented by Captain Sir Edward Belcher, C.B.
 Very young, in spirits. Ascension. From H.M.S. Chanticleer.
 Very young.
 Skull of young, weighed 66 pounds. From Dr. Mantell's collection.
 Head with the shield.
 Skull of adult, weighed 375 pounds. Ascension. Presented by — Wauds, Esq.
 Skull of adult, imperfect, discoloured.

Order IV. EMYDOSAURI.

Fam. 1. CROCODILIDÆ.

- The GARIAL OR NAKOO. *Gavialis Gangeticus*.
 Skull, adult, length 29 inches. India. Presented by Captain Oriel.
 Skull, half-grown animal, length 18 inches. India. Presented by J. E. Gray, Esq.
 Skull, adult. India. Mus. Sloane.
 The INDIAN CROCODILE. *Crocodilus porosus*.
 Skull. ———?
 The LARGE-HEADED INDIAN CROCODILE. *Crocodilus bom-bifrons*.
 Skull, length 20 inches. India. Presented by Captain Oriel.
 Skull, length 18 inches. India. From the Museum of the Royal Asiatic Society of Bengal.

The AMERICAN CROCODILE. *Crocodylus Americanus.*

Skull and front part of back of adult. West Coast of America.

Presented by Captain Sir E. Belcher, R.N., C.B.

Skull, young. From Dr. Mantell's collection.

Skull. Jamaica. From Mr. Gosse's collection.

The MUGGAR OR GOA. *Crocodylus palustris.*

Skull, half-grown animal, length 12 inches. India.

Skull, adult, length 26 inches ("animal 33 feet"). Presented by

Gibson Reeve, Esq.

Skull, adult, length 23 inches. India.

Skull, adult, length 21 inches. North Coast of Australia. Presented by Captain Stokes, R.N.

Fam. 2. ALLIGATORIDÆ.**The BLACK JACARE. *Jacare nigra.***

Skull. Para. Presented by R. Graham, Esq.

The ALLIGATOR. *Alligator Missisipensis.*

Skeleton, young. North America. From Dr. Mantell's collection.

Class IV. PISCES.**Order I. ACANTHOPTERYGIA.****Fam. SPARIDÆ.*****Chrysophrys* ———**

Upper and lower-jaw.

Fam. LABRIDÆ.**The PARROT FISH. *Scarus muricatus.***

Pharyngeal bones and teeth.

***Scarus* ———**

Skull. North West Coast of New Holland. Presented by Charles Darwin, Esq.

Fam. ZEIDÆ.**The DOLPHIN OR CORYPHENE. *Coryphæna hippurus.***

Skull.

Fam. FISTULARIADÆ.**The TOBACCO-PIPE FISH. *Fistularia tabacaria.***

Skull.

Fam. SYNGNATHIDÆ.

The SEA HORSE. *Hippocampus brevisrostris*?
 Skeleton. West Indies. From Mr. Scrivener's collection.
 Skeleton.

Fam. BLENNIIDÆ.

The WOLF FISH. *Anarrichus lupus*.
 Skull.

Fam. LOPHIADÆ.

The ANGLER. *Lophius piscatorius*.
 Teeth. From Dr. Mantell's collection.

Order II. MALACOPTERYGIA.

Fam. CYPRINIDÆ.

The CARP. *Cyprinus carpio*.
 Skeleton.

Fam. SALMONIDÆ.

SALMON. *Salmo* ———?
 Lower-jaw. China. Presented by S. Lay, Esq.

Fam. CLUPEIDÆ.

The SUDIS. *Sudis gigas*.
 Skeleton. Para, South America. Presented by J. P. G. Smith,
 Esq.
 Palate.

Fam. GADIDÆ.

The HADDOCK. *Gadus Eglefinus*.
 Skeleton.
 Skull.

Fam. PLÉURONECTIDÆ.

The TURBOT. *Rhombus maximus*.
 Skeleton.

The HOLIBUT. *Hippoglossus vulgaris*.
 Skeleton. English Coast.
 Skull. English Coast.

Fam. MURÆNIDÆ.

The CONGER. *Conger vulgaris*.
Skull. English Coast.

Skull. China. Presented by J. R. Reeves, Esq.
Muræna ———?

Order III. PLECTOGNATHI.

Fam. BALISTIDÆ.

The FORK-TAILED FILE FISH. *Balistes forcipatus*.
Intermaxillary bones. Owen's Odontography, ii. t. 40, f. 3.

Order IV. CHONDROPTERYGIA.

Fam. ACCIPENSERIDÆ.

The PADDLE FISH. *Spatularia spatula*.
Skull. North America.

Fam. SQUALIDÆ.

The SMALL-SPOTTED DOG-FISH. *Scyllium canicula*.
Teeth. English Coast.
Teeth. English Coast.

The BLUE SHARK. *Carcharias (Prionodon) glaucus*.
Skeleton.
Teeth.
Teeth ?

The LAMIA. *Carcharias (Prionodon) Lamia*.
Skeleton.
Skeleton.
Teeth. From Dr. Mantell's collection.
Teeth.
Teeth.
Teeth.
Teeth.
Teeth. From Dr. Mantell's collection.
Teeth, half-grown.
Teeth, very young.

The BLACK-FINNED SHARK. *Carcharias* (*Prionodon*) *melanopterus*?

Teeth. Malta. Presented by Miss E. Attersoll.

Teeth. * Coast of Hindostan.

The GALEOCERDO. *Galeocerdo arcticus*.

Teeth.

Teeth.

The MALTA LAMNA. *Lamna*?

Portion of under-jaw. Malta. Presented by Miss E. Attersoll.

The PORBEAGLE. *Lamna cornubica*.

Teeth.

Teeth. (*Squalus selanonus*, *Leach, Wern. Mem. t. xi. p. 64. Muller and Henle Plagiostomer, 67*).

Teeth, very young. England.

The ODONTASPIS. *Odontaspis* ———?

Teeth.

The GRISET. *Hexanchus griseus*.

* Teeth. Isle of Wight. Presented by Capt. Swinburn, R.N.

Part of a lower-jaw.

• Fam. RAIDÆ.

The SEA EAGLE. *Myliobates aquila*?

Palate. Brazils. From Dr. Mantell's collection.

The NARINARI. *Aëtobates Narinari*.

Palate.

The MARGINED TYGOBATE. *Tylobates* (*Rhinoptera*) *marginata*.

A portion of the dental series of the upper-jaw. Owen's *Odontography*, ii. t. 25, f. 2.

The STING RAY. *Trygon pastinaca*.

Teeth. Malta. Presented by Miss E. Attersoll.

The STRONG RAY. *Trygon* ———?

Teeth.

The THORNBACk. *Raia clavata*.

Teeth, male.

Teeth, female.

Teeth.

Teeth. From Dr. Mantell's collection.

Teeth, young.

The THORNBACk. *Raia* ———?

Jaws. Presented by General Hardwicke.

APPENDIX

Of the Specimens added during the printing of the List.

Fam. 1. HOMINIDÆ.

MAN. *Homo sapiens*.

Two Skulls, adult and young. Darnley Island, Torres Straits.

Presented by the Earl of Derby.

Skull, adult, idiotic. Darnley Island, Torres Straits. Presented by the Earl of Derby.

Skull. Darnley Island. Torres Straits. Presented by Joseph Bete Jukes, Esq.

Skull. Pasadama, N. Lima.

Two Skulls. Island of Sacrificios, Vera Cruz. Presented by Captain Evans Nepean, R.N.

Skull.

Seven Skulls, imperfect. New Zealand. Presented by W. Brown, Esq.

Fam. SIMIADÆ.

The CHIMPANZEE. *Troglodytes niger*.

Skeleton, half-grown. West Africa.

Fam. CEBIDÆ.

The BLACK HOWLER. *Mycetes niger*.

* Skull, male. Bolivia. From Mr. Bridge's collection.

* Skull, female. Bolivia. From Mr. Bridge's collection.

The REED TEE-TEE. *Callithrix donacophilus*.

* Skull. Bolivia. From Mr. Bridge's collection.

- The TEE-TEE. *Callithrix entomophagus*.
 * Skull. Bolivia. From Mr. Bridge's collection.
 * Skull. Bolivia. From Mr. Bridge's collection.
 The BLACK-TAILED JACCHUS. *Jacchus melanurus*.
 * Skull. Bolivia. From Mr. Bridge's collection.

Fam. LEMURIDÆ.

- The POTTO. *Perodicticus Potto*.
 Skeleton (toes imperfect). East Africa. From Mr. Warwick's collection.

Fam. VESPERTILIONIDÆ.

- The GRAY KALONG. *Pteropus griseus*.
 Skull. Timor.

Fam. FELIDÆ.

- The RED LYNX. *Lynx rufus*.
 Skull. North America?

- The RASSE. *Viverra Malacensis*.
 Skull. India.

LINGSANG, *Muller*.

- The DELUNGUNG. *Lingsang gracilis*.
 Skull. India.

- The ICHNEUMON. *Herpestes* ———?
 Three Skulls. India.

- The RED-NECKED ICHEUMON. *Herpestes semitorquatus*.
 * Skull. Borneo.

CYNICTIS, *Ogilby*.

- The MEERKAT. *Cynictis Levallantii*.
 * Skull. South Africa.
 * Skull. South Africa.

- The KIT FOX. *Vulpes cinereo-argentatus*.
 Skull. North America.

- The CULPEO. *Vulpes Magellanicus*.
 Skeleton. Chili? From Mr. Bridge's collection.
 Skull. Chili? From Mr. Bridge's collection.

- The AGOUARACHAY. *Vulpes Azaræ*.
 * Skull. Chili.

- The BLACK-FACED WEASEL. *Mustela frenata*.
 * Skull. Mexico.
- The BADGER. *Meles taxus*.
 * Skull. England.
 Skull. England. Presented by Mr. J. Baker.
- The WEST AFRICAN OTTER. *Lutra Gambianus*.
 *Skull. Gambia. Presented by the Earl of Derby.

Fam. URSIDÆ.

- The CRABBATER. *Procyon cancrivorus*.
 * Skull.
- The COATI. *Nasua rufa*.
 Skull. Central America.
- The NARICA OR QUASJE. *Nasua narica*.
 Skeleton. Central America.
- The WAH. *Ailurus fulgens*. (Page 22, for *Storr* read *F. Cuv.*)
 Skull, adult. Nepal?

Fam. TALPIDÆ.

CORSIRA, *Gray*.

- The ALPINE SHREW. *Corsira alpina*.
 Skull. St. Gothard. Presented by M. de Selys Longchamp.

Fam. MACROPIDÆ.

CUSCUS, *Lesson*.

- The YELLOW-RUMPED CUSCUS. *Cuscus chrysorrhus*.
 * Skull. E. C. N. Guinea. Presented by Joseph Beete Jukes, Esq.
- GRAY'S BETTONGIA. *Bettongia Grayii*.
 * Skull. Australia.

DIABOLUS, *Gray*.

- The TASMANIAN DEVIL. *Diabolus ursinus*.
 Lower-jaw. Australia. Presented by Joseph Beete Jukes, Esq.

Order CETE.

Fam. BALÆNIDÆ.

- The NORTHERN WHALE. *Balæna mysticetus*.
 Two plates of Whalebone. (The specimens figured in the 'Voyage of the Erebus and Terror,' p. 47, tab. 1, fig. 11).
 Greenland. Presented by Messrs. Smith & Simmonds.
 One plate of Whalebone. Greenland.
- The NORTH-WEST WHALE. *Balæna japonica*.
 Two plates of "North-west Coast Whalebone." N. W. Coast.
 (The specimens figured in the 'Voyage of the Erebus and Terror,' p. 47, tab. 1, fig. 2). Presented by Messrs. Smith and Simmonds.
 Two plates of "North-west Coast Whalebone." N. W. Coast of North America.
- The CAPE WHALE. *Balæna australis*.
 Two plates of "South Sea Whalebone." Pacific Ocean. (The specimens figured in the 'Voyage of the Erebus and Terror,' p. 48, tab. 1, fig. 3). Presented by Messrs. Smith and Simmonds.
 Two plates of "South Sea Whalebone." Pacific Ocean.
- The WESTERN AUSTRALIAN WHALE. *Balæna marginata*.
 Three plates of Baleen. (The specimens figured in the 'Voyage of the Erebus and Terror,' tab. 1, fig. 1). Western Australia.
 Presented by — Warwick, Esq.
- The PIKED WHALE OR FINNER. *Balænoptera rostrata*.
B. microcephalus, *Ost. Cat.* p. 34.
 * Plates of Whalebone, young. Thames, at Deptford.
- The RAZORBACK OR GRAY FINNER. *Balænoptera antiquorum*.
 Two plates of Baleen. Needles, Coast of Hampshire. From the Skeleton at Blackgang Chine.
 ? Several plates of Baleen, united together. Greenland. From Mr. Muller's collection.
 ? Skeleton. Coast of North Wales.
- The BAHIA FINNER. *Balænoptera Braziliensis*.
 Three plates of Whalebone. "Bahia Finner." Bahia.
- MEGAPTERA. *Gray*.
- JOHNSTON'S HUMPBACK. *Megaptera longimana*.
 Skull. Greenland.
 Skeleton. Greenland.
 Whalebone of skull. Greenland.

Fam. DELPHINIDÆ.

The COMMON PORPOISE. *Phocæna communis*.
Skeleton. England.

The EUPHROSYNE. *Delphinus Euphrosyne*.
Skull, not in good state. (At page 35, erase *D. Styx*, inserted in mistake for this species).

Delphinus ———
Three Ear-bones. South Sea. Presented by the Earl of Derby.

Delphinus ———
Three Ear-bones. South Sea. Presented by the Earl of Derby.

The GRAMPUS. *Orca gladiator*. (At page 36, for "*Randal*" read "*Rondel*."
Skeleton, twenty feet long. Weymouth. Presented by Robert Pearce, Esq.

The NARWHAL. *Monodon Monoceros*.
Skeleton of male. Greenland.

Fam. HALICORIDÆ.

The DUGONG. *Halicore Dugung*.
Skull. Presented by Joseph Beete Jukes, Esq.

The MANATEE. *Manatus australis*.
Skull. Jamaica.

Order IV. GLIRES.

Fam. MURIDÆ.

The BRAMBLE BAY MOUSE. *Mus* ———?
Two Skulls. Bramble Bay, Torres Straits. Presented by Joseph Beete Jukes, Esq.

CRICETOMYS, *Waterh.*

The GAMBIAN CRICETOMYS. *Cricetomys Gambianus*.
* Skull. West Africa. From Mr. Tregor's collection.

The PYRENEES CAMPAGNOL. *Arvicola neglecta*.
* Skull. Pyrenees. Presented by M. de Selys Longchamp.

SAVI'S CAMPAGNOL. *Arvicola Savii*.
* Skull. Liege, Belgium. Presented by M. de Selys Longchamp.

The SWEDISH CAMPAGNOL. *Arvicola medius*.
* Skull. Sweden.

The TERRESTRIAL CAMPAGNOL. *Arvicola terrestris*.

- * Skull. Switzerland. Presented by M. de Selys Longchamp. *

CAMPAGNOL. *Arvicola pyrenaica*.

- * Skull. Pyrenees. Presented by M. de Selys Longchamp.

The REDDISH CAMPAGNOL. *Arvicola rutilus*.

- * Skull. Sweden.

The HUDSON'S BAY LEMMING. *Myodes Hudsonius*.

- * Skull. Hudson's Bay. Presented by the Hudson's Bay Company.

The LEMMING. *Myodes Lemmus*.

- * Skull. Sweden.

The GUNDI. *Ctenodactylus Massoni*.

- Skull. Mountains of Matonârta. North Africa.

The PREHENSILE CAPROMYS. *Capromys prehensilis*?

- * Skull and bones of body.

Fam. HISTRICIDÆ.

The WHITE-TAILED PORCUPINE. *Hystrix leucurus*.

- Skeleton. India.

The SLENDER-SPINED ORICO. , *Sphiggurus variegatus*, n. s.

- * Skull. South America.

The AGOUTI. *Dasyprocta Aguti*.

- * Skull and bones of body. South America.

Fam. LEPORIDÆ.

The SARDINIAN HARE. *Lepus Mediterraneus*.

- Skull. Island of Kirkany.

Fam. JERBOIDÆ.

The PALE-FOOTED LAGOTIS. *Lagotis pallipes*.

- * Skull. Bolivia. From Mr. Bridge's collection.

The WHITE-EARED SQUIRREL. *Sciurus Mac Clellandii*.

- Skull. Bhotan. Presented by the Hon. East India Company.

The NEPAL SQUIRREL. *Sciurus subflaviventris*.

- * Skull. Nepal. Presented by the Hon. East India Company.

- * Skull. Nepal.

The ASSAM SQUIRREL. *Sciurus Assamensis*.

- * Skull. India. Presented by the Hon. East India Company.

- * Skull. India. Presented by the Hon. East India Company.

- * Teeth. India. Presented by the Hon. East India Company.

- The SWISS. *Tamias striatus*.
 * Skull. Russia, Altai Mountains.

Fam. ASPALACIDÆ.

- The BAY BAMBOO RAT. *Rhizomys badius*.
 Skull. Nepal.

Order V. UNGULATA.

Fam. BOVIDÆ.

- The OX. *Bos taurus*.
 Skull, female. England.

- The JAVAN OX. *Bos Bantiger*.
 Skeleton, male. Java. From the Leyden Museum.
 * Skeleton, female. Java. From the Leyden Museum.

- The TAMOUSE. *Bubalis brachycerus*.
 Skeleton. Gambia. Presented by the Earl of Derby.

- The IMPOPHOO OR ELAND. *Boselaphus oreas*.
 Horns, separate. Gambia. Presented by the Earl of Derby.
 Horns, single horn. Gambia. Presented by the Earl of Derby.

- The LICAMA OR HARTEBEEST. *Acronotus Caama*.
 Skull. Gambia. Presented by the Earl of Derby.

- The BLANO BOCK. *Ægocerus leucophæus*.
 Horns. Gambia. Presented by the Earl of Derby.
 Horns. Gambia. Presented by the Earl of Derby.

- The KORRIGUM. *Damalis korrigum*.
 Skull and horns with skin of face. Gambia. Presented by the Earl of Derby.

- The SING-SING. *Kolus sing-sing*.
 * Skull, adult female. Gambia. Presented by the Earl of Derby.
 Skeleton. Gambia. Presented by the Earl of Derby.
 Skull, young male. Gambia. Presented by the Earl of Derby.

- The JUNGLI-BURKA. *Tetracerus subquadricornis*.
 * Skull. Madras. Presented by — Jerdon, M.D.

- The RED-FRONTED GAZELLE. *Gazella rufifrons*.
 * Skull.

- The SPRING BOCK OR ISEBE. *Gazella euchores*.
 * Skull, female. South Africa.

- The DUYKER BOK. *Cephalophus mergens*.
 * Skull, female. South Africa.

The BLACK-STREAKED BUSH BUCK. *Cephalophus dorsalis*.
* Skull. Gambia. Presented by the Earl of Derby.

The CROWNED BUSH BUCK. *Cephalophus coronatus*.
Skull and bones of feet. Gambia. Presented by the Earl of Derby.

WHITFIELD'S BUSH BUCK. *Cephalophus Whitfieldii*.
* Skull. Gambia. Presented by the Earl of Derby.

The GRIMME. *Cephalophus grimmia*.
* Skull. Gambia. Presented by the Earl of Derby.

The STEEN BOK. *Oreotragus Tragulus*.
Skull, young. South Africa.
Skull, female. South Africa.

The OUREBI. *Oreotragus scoparius*.
* Skull. South Africa.
* Skull. South Africa.

The KOB. *Adenota Kob*.
* Skull. Gambia. Presented by the Earl of Derby.

The BOSCH BOCK. *Tragelaphus scriptus*.
Skull. Gambia. Presented by the Earl of Derby.
Skull. Gambia. Presented by the Earl of Derby.

The BOSCH BOCK. *Tragelaphus sylvaticus*.
Single horn. Gambia. Presented by W. Whitfield, Esq.

The CHAMOIS OR GEMS. *Rupicapra Tragus*.
Skeleton. Alps, Europe. From Mr. Brandt's collection.
Three pairs of horns, of different ages. Alps, Europe. Presented by J. E. Gray, Esq.

The BOOMORAH. *Hyemoschus aquaticus*.
Skeleton. West Africa. From Mr. Whitfield's collection.

The STAG OR RED DEER. *Cervus elaphus*.
Four horns, separate. England.

The FALLOW DEER. *Dama vulgaris*.
Skull, male. England.

Fam. EQUIDÆ.

The HORSE. *Equus caballus*.
Skeleton. England.

The DONKEY. *Asinus*.
Skull. England.

Fam. ELEPHANTIDÆ.

The BOAR. *Sus scrofa*.
Skull. England.

APPENDIX.

AVES.

The AMERICAN OSTRICH. *Rhea Americana*.
Skeleton. South America.



ERRATA.

- Page 12, 23, for *T. Brooks*, read *H. Brooke, Esq.*
„ 20, for *M. macroma*, read *M. macroura*.
„ 33, for *Delphinus styx*, read *D. Euprosyne*.
„ 63, for *Hyemoschus*, read *Hyemoschus*.
„ 65, for *Cashmere Stag, Cervus Cashmerensis*,
read *Hangool, Cervus Casperianus*.



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