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THE GENERA OF FISHES

FROM LINNÆUS TO CUVIER, 1758-1833, SEVENTY-FIVE YEARS,
WITH THE ACCEPTED TYPE OF EACH.

A Contribution to the Stability of Scientific Nomenclature.

54.7.01
2

BY

DAVID STARR JORDAN

ASSISTED BY

BARTON WARREN EVERMANN

STANFORD UNIVERSITY, CALIFORNIA
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1917

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INTRODUCTION

The leading purpose of the Commission * of the International Congress of Zoology is to give stability to nomenclature. To that end numerous cases of doubt have been resolved by the Commission. But the work done thus far has been largely piecemeal, and by this method it cannot be always made consistent with itself. Recently the Commission has undertaken to fix generic names on a larger scale, covering, for example, all those in use in a given group. In some small classes of animals this has been possible. In larger ones, it demands a study of the literature more detailed than any one has yet attempted.

Recently efforts have been made to secure stability by fiat, using names more or less current, without serious regard to the law of priority. To accept this plan would merely accentuate the confusion already existing and which has arisen through just such disregard of fundamental rules.

It seems to us that the attempts thus far have mostly begun at the wrong end. The need is not to confirm modern errors but to give nomenclature a solid basis for the long future. Stability must rest on a thorough study of the foundations of biological nomenclature, after which the Commission's authority can be used to confirm the results of such studies.

There is no middle ground between using the oldest eligible names in any given group and using whatever names we please. With the latter

* The International Commission of Zoological Nomenclature consists (May 1917) of the following persons:

Carl Apstein, Berlin;	David Starr Jordan, Stanford University;
F. A. Bather, London;	J. H. Kolbe, Berlin;
Joel A. Allen, New York	F. S. Monticelli, Naples;
Raphael Blanchard, Paris, (President);	Dr. Roule, Paris;
Ph. Dautzenberg, Paris;	S. Simon, Paris;
Ernst Hartert, Tring, England;	Henry Skinner, Philadelphia;
Dr. Horvath, Budapest;	Leonhard Stejneger, Washington;
W. Evans Hoyle, Cardiff;	Charles Wardell Stiles, Washington,
Dr. Handlirsch, Vienna;	(Secretary)
Karl Jordan, Tring;	

alternative, Systematic Zoology and Botany would come to a condition of hopeless despair. There can be no finality when the question of acceptance or rejection of names is left as a matter of personal preference.

Binomial nomenclature has its recognized beginning with the Tenth Edition of the *Systema Naturæ* of Linnæus, published in 1758 with the assumed date of January 1. These names of Linnæus constitute the original framework of Zoological Taxonomy. In the nomenclature of this early period, there are two main elements of doubt: the first relates to the eligibility of authors who have for one reason or another not accepted the Linnæan Code; next of authors whose works, published before the Linnæan Code, have been revised more or less and reprinted after the date of the Tenth Edition of the *Systema Naturæ*. In all of these the species are designated by a descriptive phrase, as was the custom before Linnæus began the practice of "scientific bookkeeping" in Systematic Zoology. The writings of Gronow, Schæfer, and Valmont de Bomare come under the first of these heads; those of Klein (*Gesellschaft Schauplatz*), Browne, Catesby, and Osbeck, under the other. Commerçon and Plumier, whose manuscript names were published by an author who did not accept them, come under a third head. It is the judgment of the present writer, that the best interests of Ichthyology would have been served by adopting the rule followed by Jordan & Evermann (*Fishes of North and Middle America*, 1898). In this work all writers who use polynomial phrases for the designation of species are disregarded as factors in nomenclature, however regular their practice may be as to genera. It is not a question of justice to able naturalists who, like Gronow and Browne, failed to adopt the Linnæan Code, solely because they had never heard of it. It is the convenience of future naturalists which is now concerned. This would apparently be best served by the exclusion of all these.

The arguments against such exclusion are mainly two: Brisson in 1760, polynomial as to species, had a stronger grasp on the significance of genera than any other ornithologist of his time. He has been called "the Father of Ornithology." Most students of birds wish to retain Brisson's genera as foundation-stones in nomenclature. There are good reasons for accepting Brisson as an exception. Similar exceptions may be demanded in other groups. It is desirable, but not vitally necessary, that all accepted rules be general, without exception; but as a member of the International Commission of Nomenclature, the present senior author has made no objection to the recognition of Brisson. The other argument is this: these writers have published generic names which

appear in systematic lists, like that of Sherborne (*Index Animalium*). The Commission has already approved the names of Gronow and Commerson. If the present Commission should decide to reject the whole series of "irregulars," some future Commission may reverse the decision, placing the element of priority above that of regularity. This possibility we cannot forestall, while if once accepted there would be no successful movement for their rejection. Previous decisions of the Commission, as to Gronow and Commerson, point in the direction of general acceptance.

It is especially important to have the status of questioned authors determined as soon as may be, not only for the convenience of ichthyologists but for workers in other fields which may be affected by questions of preoccupation.

More important than the question of acceptance or rejection of some or all of the questioned genera, is the securing of a final decision. This the Commission will be asked to make as soon as practicable. Pending this decision it is perhaps wise for systematic workers to refrain from acceptance of the names questioned.

The other problem is the assignment of generic types to the genera of authors who had no conception of types. In doing this we have followed as closely as may be the rules adopted by the Congress of Zoology, having especial regard to the "first reviser." In some cases we have been in doubt on account of conflicting usages or even rules. But in such cases the weight of authority of the Commission when exercised should serve to turn the scale. With the authors subsequent to Cuvier, 1829, this matter rarely offers any embarrassment. The later authors mostly look upon a genus, not as a pigeon-hole with arbitrary boundaries, but rather as a group of species, with certain definite structural marks clustered around some definite species, the type of the genus.

The writer asks from his colleagues the fullest criticism both as to matters of fact and of opinion, before placing the contents of this paper formally before the International Commission. We would especially request information concerning omissions. There are no doubt numerous generic names overlooked in dictionaries and in obscure publications.

We have arranged in chronological order the generic names of fishes published in the first seventy-five years of the history of ichthyological taxonomy. The determination of the validity of genera is treated only incidentally. Our main problem is the fixation of the type.

The Genera of Fishes from Linnæus to Cuvier 1758 to 1833

I. LINNÆUS, *Systema Naturæ*, Ed. X, Vol. I, 1758.

KARL LINNÉ (CAROLUS LINNÆUS).

The generic names of Linnæus represent, with one change and two or three additions, the system of Ichthyology as developed in 1738 by his friend and fellow-student, Peter Artedi, a naturalist whose knowledge of fishes was far greater than that of Linnæus. The types of most of the Linnæan genera have been accepted by common consent. As a rule we have not questioned the current application unless compelled to do so by the insistence of established rules.

Petromyzon Linnæus, 230, after Artedi; type PETROMYZON MARINUS L.
Unquestioned.

Raja Linnæus, 231, after Artedi; type RAJA BATIS L.
Spelled also RAIA, by authors.

Squalus Linnæus, 231, after Artedi; type SQUALUS ACANTHIAS L.
Restriction to *S. ACANTHIAS* and relatives, Rafinesque, *Indice d'Ittiologia Siciliana*, 1810, 45, and by Gill, *Proc. Acad. Nat. Sci. Phila.*, 1862, 497. Gray, *Cat. Chond.*, 1851, following Bonaparte, 1838, uses the name *SQUALUS* for the allies of *CARCHARIINUS COMMERSONIANUS*. But this use of the name is no more a specification of a type than is that of Rafinesque, and the more formal choice of type by Gill reinforces the former. Swainson, 1838, chooses *CARCHARODON CARCHARIAS* L.

Chimæra Linnæus, 236; type CHIMÆRA MONSTROSA L.
Unquestioned.

Lophius Linnæus, 236, after Artedi; type LOPHIUS PISCATORIUS L.
Unquestioned.

Acipenser Linnæus, 237, after Artedi; type ACIPENSER STURIO L.
Unquestioned.

Muræna Linnæus, 244, after Artedi; type MURÆNA HELENA L.
Unquestioned, except by Bleeker, who takes as type *MURÆNA ANGUILLA* L., the first species named by Artedi.

Gymnotus Linnæus, 246, after Artedi; type **GYMNOTUS CARAPO** L.

Unquestioned, except by certain authors who take as type **GYMNOTUS ELECTRICUS** L. which appears first in the Twelfth Edition of the *Systema Naturæ*.

Trichiurus Linnæus, 246, after **LEPTURUS** Artedi; type **TRICHIURUS LEPTURUS** L.

Monotypic.

Anarhichas Linnæus, 247, after Artedi; type **ANARHICHAS LUPUS** L.

Monotypic. Usually and more correctly spelled **ANARRHICHAS**.

Ammodytes Linnæus, 247, after Artedi; type **AMMODYTES TOBIANUS** L.

Monotypic.

Stromateus Linnæus, 248, after Artedi; type **STROMATEUS FIATOLA** L.

Unquestioned.

Xiphias Linnæus, 248, after Artedi; type **XIPHIAS GLADIUS** L.

Monotypic.

Callionymus Linnæus, 249, after Artedi; type **CALLIONYMUS LYRA** L.

Unquestioned.

Uranoscopus Linnæus, 250, after Artedi; type **URANOSCOPIUS SCABER** L.

Monotypic.

Trachinus Linnæus, 250, after Artedi; type **TRACHINUS DRACO** L.

Monotypic.

Gadus Linnæus, 251, after Artedi; type **GADUS MORHUA** L.

By common consent.

Blennius Linnæus, 256, after Artedi; type **BLENNIUS OCELLARIS** L. as restricted by Jordan & Gilbert, 1883.

Ophidion Linnæus, 259, after Artedi; type **OPHIIDION BARBATUM** L.

Unquestioned.

Cyclopterus Linnæus, 260, after Artedi; type **CYCLOPTERUS LUMPUS** L.

Unquestioned.

Echeneis Linnæus, 260, after Artedi; type **ECHENEIS NAUCRATES** L. (misprinted **NEUCRATES**).

First restriction by Gill, *Proc. Acad. Nat. Sci. Phila.*, 1862, 239. In 1864, *loc. cit.* 60, Gill proposed to adopt as type **ECHENEIS REMORA**, this being the only species noted by Artedi, and in Linnæus's earlier writings. But as Linnæus referred both species to **ECHENEIS**, this change seems not warranted.

Coryphæna Linnæus, 261, after Artedi; type **CORYPHÆNA HIPPIURUS** L.

Unquestioned.

Gobius Linnæus, 263, after Artedi; type **GOBIOUS NIGER** L.

By common consent.

Cottus Linnæus, 264, after Artedi; type **COTTUS GOBIO** L.

First restriction by Cuvier & Valenciennes, *Hist. Nat. Poiss.*, IV, 1829, 142. "Ce genre avait pour type primitive, un petit acanthopterygien de nos rivières, à

tête large," etc. Later restricted to *COTTUS SCORPIUS* L. (*MYXOCEPHALUS* Steller = *ACANTHOCOTTUS* Girard), by Putnam, *Bull. Mus. Comp. Zool.*, I, No. 1, 3, 1863.

Scorpæna Linnæus, 266, after Artedi; type *SCORPÆNA PORCUS* L.

Unquestioned.

Zeus Linnæus, 267, after Artedi; type *ZEUS FABER* L.

Unquestioned.

Pleuronectes Linnæus, 268, after Artedi; type *PLEURONECTES PLATESSA* L.

First restriction by Fleming, *Philos. Zool.*, 1822. Some writers have taken *PLEURONECTES MAXIMUS* L. as type, following a quasi-designation by Fleming in 1828.

Chætodon Linnæus, 272, after Artedi; type *CHÆTODON CAPISTRATUS* L.

First restriction by Cuvier, *Règne Animal*, 1817, 33, and by Jordan & Gilbert, *Synopsis Fish N. A.*, 1883. All authors, except Bleeker, have used the name for the same group. Artedi places first in his list under *CHÆTODON* the species called *CHÆTODON ARCUATUS*, a *POMACANTHUS*. Bleeker takes this species as type, replacing *POMACANTHUS* with *CHÆTODON*, and *CHÆTODON* by *TETRAGONOPTRUS*.

Sparus Linnæus, 277, after Artedi; type *SPARUS AURATA* L.

First restriction by Fleming, *Philos. Zool.*, 1822. This decision has been generally, but not universally accepted.

Labrus Linnæus, 282, after Artedi; type *LABRUS BIMACULATUS* L., the earliest type designated by Bonaparte (1839), under the name of *L. VETULUS* Bloch.

By common consent restricted to *LABRUS VIRIDIS* and closely allied forms.

Sciæna Linnæus, 288; type *SCIÆNA UMBRA* L.

Complex species, to be considered as identical with *CHEILODIPTERUS AQUILA* Lacepède. First exact restriction by Cuvier, 1815. *SCIÆNA UMBRA*, based on Artedi, is a mixture of two species, *SCIÆNA AQUILA* (Lac.) and *CORVINA NIGRA* (Bloch). It is the proper type of the genus *SCIÆNA*, but its component parts are not congeneric. The two species were confused until Cuvier (*Mém. du Muséum*, 1815, and later in the *Règne Animal*, Edition II, 1829, made clear the difference and definitely chose *AQUILA* as the type of *SCIÆNA*. Jordan & Evermann have adopted *CORVINA NIGRA*, under the name of *SCIÆNA UMBRA*, as type of *SCIÆNA*. An argument can be made for either arrangement, but convenience is best served and probably justice also by accepting the name *UMBRA* for the species called *AQUILA* and recognizing this as type of *SCIÆNA*. The two species concerned should then stand as *SCIÆNA UMBRA* L. and *CORVINA NIGRA* (Bloch). Bleeker has chosen as type *SCIÆNA CIRROSA*, the species placed first by Artedi, the type of *UMBRINA* Cuvier.

Perca Linnæus, 289, after Artedi; type *PERCA FLUVIATILIS* L.

By common consent.

Gasterosteus Linnæus, 295, after Artedi; type *GASTEROSTEUS ACULEATUS* L.

By common consent.

Scomber Linnæus, 297, after Artedi; type *SCOMBER SCOMBRUS* L.

By common consent.

Mullus Linnæus, 299; type *MULLUS BARBATUS* L.

By common consent.

Trigla Linnæus, 300, after Artedi; type *TRIGLA LYRA* L.

By common consent.

Cobitis Linnæus, 300, after Artedi; type *COBITIS TÆNIA* L.

By common consent.

Silurus Linnæus, 304, after Artedi; type *SILURUS GLANIS* L.

By common consent.

Loricaria Linnæus, 307, type *LORICARIA CATAPHRACTA* L.

Monotypic.

Salmo Linnæus, 308, after Artedi; type *SALMO SALAR* L.

By common consent.

Trutta Linnæus, as "TRUTTÆ," 308; type *SALMO TRUTTA* L.

Type by tautonomy.

Osmerus Linnæus, as "OSMERI," 310, after Artedi; type *SALMO EPERLANUS* L.

By common consent.

Coregonus Linnæus, as "COREGONI," 310, after Artedi; type *SALMO LAVARETUS* L.

By common consent.

Characinus Linnæus, as "CHARACINI," 311, after Gronow; type *SALMO GIBBOSUS* L.

First restriction by Gill, *Proc. U. S. Nat. Mus.*, 1895, 215. Replaces *CHARAX* Gronow, *EPICYRTUS* Müller & Troschel, *ANACYRTUS* Günther. Its use hinges on its eligibility, as Linnæus used only the plural form *CHARACINI* as a section *SALMO*. If not accepted, *CHARAX* Gronow (1763), Scopoli (1777), would replace it, with the same type. The same slight doubt applies to *TRUTTA*, *OSMERUS* and *COREGONUS*, all used in the plural form only by Linnæus. In our judgment all are eligible.

Fistularia Linnæus, 312; type *FISTULARIA TABACARIA* L.

Monotypic.

Esox Linnæus, 313; type *ESOX LUCIUS* L.

This type was indicated, somewhat arbitrarily, in Opinion 58 of the International Commission, accepting the view of Cuvier, and current usage both before and after Linnæus. Klein chose the name *LUCIUS* for the Pike, this name being adopted in the *Gesellschaft Schauplatz*. Rafinesque first separated the marine garfishes from the pike, calling the former *ESOX*, the latter *LUCIUS*. But neither ever stated formally that *ESOX BELONE* L. was the type of *ESOX*. In view of the arguments available on either side, we may "let sleeping dogs lie," and follow common custom, strengthened by the authority of the Commission.

Argentina Linnæus, 315, after Gronow, (*Museum Ichthyologicium*, a pre-Linnæan work); type ARGENTINA SPHYRÆNA L.

Monotypic.

Atherina Linnæus, 315, after Artedi; type ATHERINA HEPSETUS L.

Monotypic.

Mugil Linnæus, 316, after Artedi; type MUGIL CEPHALUS L.

Monotypic.

Exocætus Linnæus, 316; type EXOCÆTUS VOLITANS L. = E. EVOLANS L. (= HALOCYPSELUS Weinland).

Monotypic.

Polynemus Linnæus, 317, after Gronow and Artedi; type POLYNEMUS PARADISEUS L.

The first real restriction seems to be that of Gunther, *Cat. Fishes*, II, 1860, 319. No type is specified, but the non-congeneric species, P. QUINQUARIUS L., is removed to form the genus PENTANEMUS, a name originally employed by Artedi, but changed to POLYNEMUS by Gronow. As this species, QUINQUARIUS, was the only one known to Artedi or to Gronow, Dr. Gill, with numerous writers, ourselves included, has regarded it as the type of POLYNEMUS. But common usage with the formal selection of P. PARADISEUS L. as type by Jordan & Gilbert, *Synopsis Fishes*, 1883, should prevail.

Clupea Linnæus, 317, after Artedi; type CLUPEA HARENGUS L.

Unquestioned.

Cyprinus Linnæus, 320, after Artedi; type CYPRINUS CARPIO L.

Unquestioned.

Mormyrus Linnæus, 327; type MORMYRUS CYPRINOIDES L.

Unquestioned.

Balistes Linnæus, 327, after Artedi; type BALISTES VETULA L.

Unquestioned.

Ostracion Linnæus, 330; type OSTRACION CUBICUS L.

As restricted by Swainson 1839, by Bleeker 1865, and in recent usage.

Unquestioned, except by Kaup, who takes as type O. TRIQUETER L., a species referred to LACTOPHYRUS Swainson. O. CUBICUS L. is type of CIBOTION Kaup.

Tetraodon Linnæus, 332, after Artedi; type TETRAODON TESTUDINEUS L.

This genus has been variously treated by authors, but justice and convenience are best served by the choice of T. TESTUDINEUS as type. Bleeker, *Atlas Ichth.*, 1865, appears to be the first reviser. He observes: "C'est une de ces espèces qui est devenue le type du genre Linnéen . . . en effet le TETRAODON TESTUDINEUS, qui est la première des espèces de TETRAODON de la Dixième Edition du *Systema Naturæ*." Several writers have since indicated as type T. LINEATUS L. a species of OVOIDES.

Diodon Linnæus, 334, after Artedi; type DIODON HYSTRIX L.

Unquestioned, except by Bleeker, who takes the first species named, Diodon ATINGA L.

Centriscus Linnæus, 336, after Gronow; type *CENTRISCUS SCUTATUS* L.

Monotypic, a fact overlooked by various authors who choose *CENTRISCUS SCOLOPAX* L., 1766.

Syngnathus Linnæus, 336, after Artedi; type *SYNGNATHUS ACUS* L.

By common usage. The earliest restriction as approved by the International Commission is that of Jordan, Opinion, 45, 103, 1912.

Pegasus Linnæus, 358, after Gronow; type *PEGASUS VOLITANS* L.

Monotypic.

II. GUNNER, *Nachricht von Berglachs, welche CORYPHÆNOIDES RUPESTRIS genannt werden kann*: Thronhjemske Selskab, Skrifter III, 1761.

JOHAN ERNST GUNNER.

Coryphænoides Gunner, 43, 50; type *CORYPHÆNOIDES RUPESTRIS* Gunner.

III. SCHÆFER, *Piscium Bavarico Ratisbonensium*, 1761.

JACOB CHRISTIAN SCHÆFER.

The descriptions in this paper are exact and very elaborate ("in universum describiendis"). The nomenclature is eccentric—in part monomial, and the names are perhaps not exactly used in the sense of genera. The perch is called *PERCA VULGARIS* and again *PERCA FLUVIATILIS*.

Names perhaps not eligible as monomial:

Cernua Schæfer, 37; type *CERNUA SEU PERCA FLUVIATILIS MINOR* Schæfer = *PERCA CERNUA* L.

Equivalent, if accepted, to *GYMNOCEPHALUS* Bloch, *ACERINA* Gùldenstadt, *CERNUA* Fleming.

Schraitzer Schæfer, 38; type *SCHIRAITZER Ratisbonensium* = *PERCA SCHRÆTZER* L.

Equivalent to *LEPTOPERCA* Gill.

Asperulus Schæfer 59; type *ZINDEL Ratisbonensis* Schæfer = *PERCA ZINGEL* L.

Equivalent to *ZINGEL* Oken.

Asper Schæfer 59; type *ASPER VERUS* Schæfer, "*Streber ratisbonensis*" = *PERCA ASPER* L.

Equivalent to *ASPRO* Cuvier, not of Commerson.

IV. OSBECK, *Reise durch China*, 1762.

PER OSBECK.

Osbeck, a pupil of Linnæus, published in 1757 the record of his travels in China. This work is wholly binomial, but being earlier than 1758, the Latin edition, "*Iter Chinensis*," 1757, cannot be used in nomenclature. The German edition, *Reise durch China*, bears the date of 1762, and is here considered. A Swedish version dates from 1765, an English edition from 1771. The case is exactly parallel with that of Hasselquist's "*Iter Palestinum*," published in 1757, and reprinted in German in 1762. Hasselquist, like Osbeck, was a pupil of Linnæus, and adopted the Linnæan Code. In Opinion 57, the Commission of Nomenclature rejected Hasselquist's work and its translation. "The German translation by Gadebusch, published in 1762, does not give validity to the names published in the original edition in 1757." The present writers question the wisdom of this decision.

The names of Osbeck are questioned as translations of work prior to 1758.

Apocryptes Osbeck, 130, 1762; type **APOCRYPTES CHINENSIS** Osbeck, **GORIUS PECTINIROSTRIS** Gmelin.

APOCRYPTES is close to **BOLEOPHTHALMUS** but distinct. **APOCRYPTES** Cuvier is a different genus.

Albula Osbeck, 309, 1762; type **ALBULA CHINENSIS** Osbeck.

Same as **SALANX** Cuvier, not **ALBULA** Gronow 1763. If accepted, the genus commonly called **ALBULA** must receive a new name, **BUTYRINUS** Lacepède.

V. GRONOW, *Zoophylacum; Zoophylacii Gronoviana . . . Animalia quæ in museo suo adseruat, etc.*, 1763.

LORENZ THEODOR GRONOW (LAURENTIUS THEODORUS GRONOVIVS).

In this work of Gronow, printed in 1763, before its author had become acquainted with the *Systema Naturæ*, the genera of fishes are well defined, in a system which runs closely parallel with the system of Artedi (1738), but the species, as with Artedi, have polynomial designations only. In addition to the genera earlier named by Artedi and Linnæus, Gronow has a number of new names. Two of these, **AMIA** and **HEPATUS**, conflict with Linnæan genera of 1766. The completed manu-

script work of Gronow, written in 1780, called *Systema Ichthyologicum*, in which binomial names were attached to species, after the Linnæan fashion, became the property of the British Museum, by which institution it was published in 1854. This work, as edited by John Edward Gray, does great credit to the scientific discrimination of Gronow; but at that late date, exactly a hundred years after Gronow's first paper, "*Museum Ichthyologicum*," nearly all of his new names became synonyms.

Fortunately for the interests of nomenclature, most of Gronow's names were adopted in 1777 by Scopoli, *Introd. Hist. Nat.* Several other names have been used by subsequent authors, as Gmelin, Bloch and Cuvier; so that the adoption of the names of Gronow works less confusion in the system than might be expected. The suppression of AMIA, LIPARIS, ZOARCES, CONGER, and SCARUS, with the transposition of AMIA, are the results most to be regretted. As the few new names of Gronow have lain unnoticed for a century and a half, it seems a pity to revive them. The present writer believes, as already stated, that it would be a wise rule to exclude from the system all post-Linnæan writers who failed to adopt the binary designation of species. As however Brisson, 1760, "the Father of Ornithology," was a writer of this type, it may be possible to make an exception in his case, preserving his genera of Birds. But Ichthyology gains little to atone for the confusion resulting from the introduction at this late day of the names of Gronow, Klein and other polynomial writers not hitherto absorbed into the system. The generic names of Gronow have been, however, formally accepted by the International Commission of Zoological Nomenclature (Opinion 20, Smithsonian Miscellaneous Contributions, No. 1938): "Gronow, 1763, is binary, though not consistently binomial. Article 25 demands that an author be binary and Article 2 demands that generic names shall be uninomial. Under these articles, Gronow's names are to be accepted as complying with the conditions prescribed by the Code to render a name available under the Code."

The eligibility of the generic names of Gronow is questioned as not conforming to the Linnæan code in the terminology of species.

Callorhynchus Gronow, 31; type CHIMÆRA CALLORHYNCHUS L. (CALLORHYNCHUS PINNA DORSI etc. Gronow).

Unquestioned: accepted by later writers.

Cyclogaster Gronow, 55; type CYCLOPTERUS LIPARIS L. (CYCLOGASTER BELGIS KRINGBURGK (Gronow)).

The name LIPARIS used for this genus by Artedi in 1738 was changed to Cy-

CLOGASTER by Gronow. *LIPARIS* was restored by Scopoli in 1777, and has been used by nearly all subsequent authors.

Gonorhynchus Gronow, 56; type *CYPRINUS GONORHYNCHUS* Gmelin.

Monotypic. The name was adopted by Schlegel, 1846, replacing *RIHYNCHUS* Richardson. Also by Scopoli, 1777.

Uranoscopus Gronow, 57; type *COTTUS GOBIO* L.

Synonym of *COTTUS* L.

Cynædus Gronow, 60; type *SPARUS AURATA* L. (*CYNÆDUS CAUDA LUNULATA* etc. Gronow).

This genus is an assemblage of Sparoid fishes, essentially equivalent to *SPARUS* of Linnaeus, and includes species of several modern genera. Jordan (Smithson. Publ. No. 1938: *Opinions on zoological nomenclature*) has proposed to treat *CYNÆDUS* as a synonym of *SPARUS*, having *SPARUS AURATA* as type.

Holocentrus Gronow, 65; type *HOLOCENTRUS SOGO* Bloch (*HOLOCENTRUS MAXILLA SUPERIORE LONGIORE* Gronow).

This name, taken from Artedi, was revived by Scopoli, 1777, and by Bloch, 1790, who changed the spelling to *HOLOCENTRUM*, the form used by Artedi. This neuter form has been used by most authors from Cuvier to Günther.

Coracinus Gronow, 66; type *DIPTERODON CAPENSIS* Cuv. & Val. (*CORACINUS CAUDA-LUNATA* Gronow).

Not *DIPTERODON* Lacepède. If accepted, replaces *DICHISTIUS* Gill.

Scarus Gronow, 67; type *LABRUS VIRIDIS* L. (*SCARUS VIRIDIS* Gronow).

This genus of Gronow unfortunately contains no species of the group later called *SCARUS*, the two other species enumerated being *CICHLIDS* from Surinam.

Callyodon Gronow, 72; type *SCARUS CROICENSIS* Bloch (*CALLIODON CAPITATE SUBACUTO* Gronow).

CALLYODON, if eligible, must replace *SCARUS* Forskål, 1775, as the name of this large and wide-spread genus. The name *SCARUS* of Gronow, applied to a species of *LABRUS*, antedates its use for a parrot-fish. The genus called *CALLIODON* by Cuvier (*C. SPINIDENS*), is distinct from *CALLYODON* of Gronow (*CALLIODON* of Bloch & Schneider), and must stand as *CRYPTOTOMUS* Cope. Revived by Scopoli, 1777.

Enchelyopus Gronow, 77. after Klein; type *BLENNIUS VIVIPARUS* L. (*ENCHIELYOPUS CORPORE LITURIS* etc. Gronow).

This genus as proposed by Klein in 1744 contained a variety of fishes, eel-shaped but with ventral fins. As used by Gronow it is practically equivalent to *ZOARCES* Cuvier, and to this type it was restricted by Gill, 1863. *ENCHIELYOPUS* Bloch & Schneider (type *GADUS CIMBRIUS* L., a species unknown to Gronow), should stand as *RHINONEMUS* Gill. *ENCHIELYOPUS* Gronow must unfortunately supersede *ZOARCES* Cuvier.

Pholis Gronow, 78; type *BLENNIUS GUNNELLUS* L. (*PHOLIS MACULIS ANNULATUS* etc. Gronow).

Revived by Scopoli, 1777. Replaces *MURENOIDES* Lacepède and *GUNNELLUS* Cuvier, (not *PHOLIS* Cuv. & Val.). Monotypic.

Amia Gronow, 80; type *APOGON MOLUCCENSIS* Cuv. & Val. (*AMIA CAPUT CATHEOPLATEUM* Gronow).

Equivalent to *APOGON* Lacepède, 1802.

Eleotris Gronow, 83; type *GOBIOUS PISONIS* Gmelin = *ELEOTRIS GYRINUS* Cuvier & Valenciennes (*ELEOTRIS CAPIT PLAGEOPLATEO* etc. Gronow).

The name *ELEOTRIS* was used for the same group by Bloch & Schneider in 1801, and by all later authors.

Clarias Gronow, 100; type *CLARIAS ORONTIS* Günther (*CLARIAS* Gronow).

Accepted by Scopoli, 1777, and by other writers. Monotypic.

Albula Gronow, 102; type *ESOX VULPES* L. = *ALBULA CONORHYNCHUS* Bloch & Schneider.

Revived by Bloch & Schneider, 1801. Antedated by *ALBULA* Osbeck. Equivalent to *BUTYRINUS* Lacepède. Also used by Scopoli, 1777.

Aspredo Gronow, 102, after Linnæus, 1754; type *SILURUS ASPREDO* L. (*ASPREDO CIRRI OCTO* Gronow).

Anableps Gronow; type *COBITIS ANABLEPS* L.

Anostomus Gronow, 112; type *SALMO ANOSTOMUS* L. (*ANOSTOMUS* Gronow).

Adopted by Müller & Troschel, 1845. Equivalent to *SCHIZODON* Agassiz, 1829. Monotypic. Revived by Scopoli, 1777.

Synodus Gronow, 112; type *SALMO SYNODUS* L.

This genus, equivalent to *SAURUS* Cuvier, was revived by Scopoli, 1777. Monotypic.

Hepatus Gronow, 113; type *TEUTHIS HEPATUS* L. = *CHÆTODON CHIRURGUS* Bloch, not *ACANTHURUS HEPATUS* Cuv. & Val. (*HEPATUS MUCRONE REFLEXO* Gronow).

HEPATUS Gronow is based on two species, on which two Linnæus based his genus *TEUTHIS*. The latter is a substitute for the former, and the two were accepted as identical by Scopoli. Of the two species mentioned by Gronow, *HEPATUS* L. and *JAVUS* L., Gronow had, according to Dr. Günther, a specimen of the first. This we may take as type of both *HEPATUS* and *TEUTHIS HEPATUS*. This example belonged to the species called later *CHÆTODON CHIRURGUS* by Bloch. This species must be regarded as the type of the genus *HEPATUS*. Cuvier & Valenciennes have used the name *HEPATUS* L. for an East Indian species, *COLOCOPUS LAMBDURUS* Gill. They were mistaken in supposing that this species was the one examined by Gronow. The restriction here made is that of the first reviser, Jordan, Tanaka & Snyder, *Cat. Fish Japan*, 1913, 214. If accepted, *HEPATUS* replaces *TEUTHIS* and *ACANTHURUS*.

Umbra (Krämer) Gronow, 114; type *CYPRINODON KRÄMERI* Walbaum. (*UMBRA KRAMERI* Gronow).

Revived by Scopoli, 1777, and Müller, 1842, as *UMBRA CRAMERI* Müller.

Erythrinus Gronow, 114; type *SALMO ERYTHRINUS* Bloch & Schneider, 1801 (= *ERYTHRINUS* Gronow).

The name was revived by Müller & Troschel, 1846, and is in general use. Monotypic. Used also by Scopoli, 1777.

Cataphractus Gronow, 115; type *PEGASUS DRACONIS* L. (*CATAPHRACTUS CORPORE TETRAGONE* Gronow).

This genus is a synonym of *PEGASUS* L.

Solenostomus Gronow, 119; type *FISTULARIA TABACARIA* L. (*SOLENOTOMUS CAUDA BIFURCA* etc. Gronow).

SOLENOTOMUS is equivalent to *FISTULARIA*. The genus *SOLENOTOMUS* Lacepède, 1803, typified by *FISTULARIA PARADOXA* Pallas, must receive a new name, if the names of Gronow are accepted.

Charax Gronow, 123; type *SALMO GIBBOSUS* L. (*CHARAX MAXILLA INFERIORE* etc. Gronow).

This name is equivalent to *CHARACIN* L.=*EPICYRTUS* Müller & Troschel, 1846, said to be preoccupied, and *ANACYRTUS* Günther, 1864, presented as a substitute for *EPICYRTUS*, all with the same type. *CHARAX* Risso (*C. PUNTAZZO*) belongs to the very different family SPARIDÆ. Revived by Scopoli, 1777.

Mystus Gronow, 124; type *BAGRUS HALEPENSIS* Cuv. & Val. (*MYSTUS CIRRI OCTO CAPITIS LONGIORIBUS* Gronow).

The genus *MYSTUS* as defined by Gronow contains five species, not congeneric. The name is taken from Russell's *History of Aleppo*, who describes the species called *BAGRUS* or *HYPSELOBAGRUS HALEPENSIS* as *MYSTUS*. Of the generic names included, that of *HYPSELOBAGRUS* Günther, 1864, is the most recent. The species named "*MYSTUS*" by Russell may be taken as the type of "*MYSTUS*" which will, if accepted, supersede *HYPSELOBAGRUS*. *MYSTUS* Lacepède, 1805, (*MYSTUS CLUPEOIDES* Lacepède) is a species of *COILIA* Gray, 1831, an Engraulid fish. Also Scopoli.

Plecostomus Gronow, 127, after Artedi; type *LORICARIA PLECOSTOMUS* L. (*PLECOSTOMUS DORSO DIPTERYGIO* Gronow).

If accepted, replaces *HYPOSTOMUS* Lacepède; it is now in general use.

Callichthys Gronow, 127; type *SILURUS CALLICHTHYS* L. (*CALLICHTHYS CIRRI* Gronow).

Unquestioned, being accepted by later writers.

Mastacembelus Gronow, 132; type *OPHIIDIUM SIMACK* Walbaum, 1792 = *RYNCHOBELLA HALEPPENSIS* Bloch & Schneider, 1801 (*MASTACEMBELUS MAXILLIS SUBACUTIS* Gronow).

Revived by Cuvier & Valenciennes. The generic name *RYNCHOBELLA* Bloch & Schneider included both species assigned by Gronow to *MASTACEMBELUS*. In dividing the group, Cuvier & Valenciennes assigned the former name to *OPHIIDIUM ACULEATUM* Bloch, Gronow's second species, leaving *MASTACEMBELUS* for his first. Before Gronow, Klein, 1744, had used the name *MASTACEMBELUS* for an entirely different group. In this he had been followed by Bleeker, who recognized, at first, generic names of earlier date than 1758.

Channa Gronow, 135; type *CHANNA ORIENTALIS* Bloch & Schneider, 1801 (*CHANNA* Gronow).

This monotypic genus was accepted by Bloch & Schneider, 1801, and Scopoli.

Gasteropelecus Gronow, 135; type *CLUPEA STERNICLA* L. (*GASTROPELECUS* Gronow).

Monotypic. The name was revived by Pallas in 1769.

Leptocephalus Gronow, 135; type *LEPTOCEPHALUS MORRISI* Gmelin, the larva of *MURÆNA CONGER* L. (*LEPTOCEPHALUS* Gronow).

This name, based on a larval conger, and revived by Scopoli in 1777, is held to replace *CONGER* Houttuyn, 1764, and of Cuvier, 1817, given to the adult of the same species. As *LEPTOCEPHALUS* has been in use more than a century as the collective name of the peculiar translucent expanded larvæ of the Conger and other eels, it would be well to restrict its use to those forms, reserving the genus to which the type belongs, the earliest name given to the adult fish, *CONGER* Houttuyn.

Gymnogaster Gronow, 136; type *TRICHIURUS LEPTURUS* L. (*GYMNOGASTER* Gronow).

Equivalent to *TRICHIURUS* L. Monotypic.

Pteraclis Gronow, 136; type *CORYPHÆNA VELIFERA* Pallas, 1770 (*PTERACLIS PINNATA* Gronow) 1777.

The name *PTERACLIS* was used by Gronow, 1772. It is monotypic and unquestioned.

VI. LINNÆUS, *Museum Adolphi-Frederici*, II, 1764.

CAROLUS LINNÆUS.

Cepola Linnæus, 63; type *CEPOLA RUBESCENS* L. = *C. TÆNIA* L. (also in *Syst. Nat.*, 1766.)

VII. HOUTTUYN, *Natuurlike Historie volgens den Heer Linnæus*, 1764.

MARTIN HOUTTUYN.

This work we have not seen. Mr. Garman (in lit.) quotes:

Conger Houttuyn, VII, 103; type *MURÆNA CONGER* L.

This name might well be retained for the Conger eel, leaving *LEPTOCEPHALUS* to its time-honored special use as a designation for the larval forms of Conger and similar eels.

Torpedo Houttuyn, VII, 453; type (not named) *RAJA TORPEDO* L.

Apparently this fixes the name *TORPEDO* on the Electric Ray.

VIII. LINNÆUS, *Systema Naturæ*, Ed. XII, 1766.

CAROLUS LINNÆUS.

This edition contains four genera in addition to those given in the Tenth Edition.

Cepola Linnæus, 445; type *C. TÆNIA* L. = *C. RUBESCENS* L.

Unquestioned.

Amia Linnæus, 500; type *A. CALVA* L.

The generic name *AMIA* appears in the Twelfth Edition of the *Systema Naturæ*, in 1766. It had been used earlier by Gronow, in 1763, for a percoid genus, later called *APOGON* by Lacepède.

In the opinions already rendered by the Commission, it was decided that the generic names in Gronow's *Zoophylaceum*, published in 1763, between the tenth and twelfth editions of the *Systema Naturæ*, should be adopted, although his names for species were polynomial. Gronow was an excellent ichthyologist, with broader knowledge than Linnæus, and later adopted the Linnæan nomenclature. In view of the fact that his names are not in current usage, and that he had not then accepted binomial nomenclature, most recent authors have rejected them, unless revived by some binomial writer. The transfer of *AMIA* from the ganoid to a percoid genus is, however, peculiarly undesirable, and it may be urged that general convenience justifies a special exception in this case. If *AMIA* be used for *APOGON*, *AMIA* L. is replaced by *AMIATUS* Rafinesque, 1815.

Teuthis, 507, after Browne; type *CHÆTODON CÆRULEUS* Bloch = *TEUTHIS HEPATUS* L. in part.

The name *TEUTHIS* was applied by Linnæus in the twelfth edition of the *Systema Naturæ*, to the two species which formed the genus *HEPATUS* of Gronow, in 1765. These were named *TEUTHIS HEPATUS* and *TEUTHIS JAVUS*. The name *TEUTHIS* was borrowed from Browne, a non-binomial author. The two Linnæan species belong to different families. The species first named *HEPATUS* may be regarded as the type of *HEPATUS*, as already indicated. The name *TEUTHIS* should properly go with *T. HEPATUS*, as the name is borrowed from Browne, who applied it to a single species, confused with *TEUTHIS HEPATUS* by Gronow and Linnæus, the *CHÆTODON CÆRULEUS* of Bloch. This species is a near relative of the type of *HEPATUS*. This decision follows the arguments of Dr. Gill. It is reasonable, but not above question. Meanwhile several authors, notably Cantor and Günther, use *TEUTHIS* for *T. JAVUS* (*SIGANUS* Forskål), while others suppress it altogether. Still others misspell it, as *THEUTYS*, *THEUTIS*, etc.

Elops Linnæus, 508; type *ELOPS SAURUS* L.

Monotypic.

IX. MÜLLER, *Delineationes Naturæ*, II, 1767, 141 (fide Sherborne, *Index Animalium*).

PHILIP LUDWIG STATIUS MÜLLER.

Not seen by us.

Acus Müller, 141; type probably SYNGNATHUS ACUS L.

Equivalent to SYNGNATHUS L.

Orbis Müller, 141; type probably DIODON HYSTRIX L.

Equivalent to DIODON L.

We copy these references from Sherborne. In a memoir by Professor Müller, 1774, vol. III, p. 341, ACUS appears as a specific name under SYNGNATHUS ACUS, and again, 1774, IV, 341, as a vernacular under ESOX BELONE. Under DIODON HYSTRIX (III, 327) he quotes "ORBIS MAXIMUS SPINOSUS." Mr. Garman, who gives us these references, remarks: "I would say that neither of these is available as a generic name." Neither is used in Müller's supplement to the *Systema Naturæ*, 1776.

X. GEOFFROY, *Descriptions de 719 Plantes* etc., 1767.

ÉTIENNE LOUIS GEOFFROY.

This paper we have not seen. We copy from Sherborne.

Ichthyocolla Geoffroy, 399; type presumably ACIPENSER HUSO L.

The name, meaning fish-glue, was early applied to the fish producing it. Prior to Huso Brandt, as a name for a subgenus of sturgeons.

Harengus Geoffroy, 405; type presumably CLUPEA HARENGUS L., in which case it is a synonym of CLUPEA.

Lucius Geoffroy, 407; type presumably ESOX LUCIUS L.

Trutta Geoffroy, 719; type presumably SALMO TRUTTA L.

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XI. VALMONT DE BOMARE, *Dictionnaire Raisonné Universel d'Histoire Naturelle*, 1764, 1768, 1774, 1791.

JEAN CHRISTOPHE VALMONT DE BOMARE.

The eligibility of Valmont's names is questioned as binomial only by accident, and not accepted as genera by the author himself in 1791.

Of this work we have examined four editions, the first bearing date of 1764; the "new edition," considerably enlarged, of 1768; the second

edition, apparently mostly identical with the "new edition," 1775; and the fourth, still larger, in 1791.

The dictionary received no consideration in ichthyological nomenclature until the appearance of the elaborate treatise on the sharks of the world, "PLAGIOTOMIA" by Samuel Garman, (*Memoirs of the Museum of Comparative Zoology at Harvard College*, vol. XXXVI, 1913).

In this work Mr. Garman makes brief reference to Valmont de Bomare as a worthy author hitherto ignored in taxonomy. "The selection of one authority because he favored binomials more than another, has led to much uncertainty among names and to many changes. It has led authors to belittle and to ignore excellent works which at their time of publication and much later ranked in accuracy and influence among the first of the scientific publications of this period." Mr. Stejneger informs me that a Danish edition of this Dictionary exists.

An examination of four editions of the *Dictionnaire* of Valmont de Bomare shows it to be a compilation pure and simple, that he did not intend to give any new scientific names to animals or plants, but that, in a few cases, he copied binomial appellations from earlier authors which might be construed as revived in a scientific sense.

It is therefore worth while to examine these cases in detail.

FIRST EDITION, 1764.

In the first edition, bearing date of 1764, there is no case of the use of anything resembling scientific nomenclature, although Valmont often gives a Latin equivalent to his French names. It is evident, however, that the work of Artedi, Klein, Gronow, and Linnæus in which genera and species are formally recognized, is unknown to him.

Thus, accompanied by fair descriptions compiled from other authors, he gives the following:

"AIOL, en Latin, SCARUS, un des plus beaux," etc. (vol. I, p. 95).

"ALOSE, ALOSA, poisson de mer qui remonte" (vol. I, p. 105).

"ANCHOIS, en Latin, APUA, petit poisson," etc. (I, 13, 3).

"ANGUILLE, ANGUILLA, poisson allongé," etc. (vol. I, p. 133).

"CONGRE, CONGER, excellent poisson," etc. (vol. II, p. 58).

"DAURADE, AURATA VULGARIS, Espèce de poisson," etc. (vol. II, p. 225).

"ÉPINOCHIE, PISCIS ACULEATUS (vol. II, p. 306).

"GLAUCUS, bien des ichthyologues donnent ce nom à trois sortes de poissons, 1 au Derbio, 2 au Liche, 3 au véritable GLAUCUS," etc. (vol. II, p. 512).

"HARENG, HALEC, Les harengs sont des poissons de passage," etc. (vol. II, p. 610).

"TORPILLE, TORPEDO OU TREMBLE, TORPEDO POISSON," etc. (p. 458).

"GRAPPE MARINE, UVA MARINA."

These are plainly not scientific names. While the writer evidently grasps more or less clearly the meaning of genus and species, he has no conception of binomial nomenclature, as distinct from Latin equivalents of the vernacular names in French. Thus no one would take "*PISCIS ACULEATUS*" as a generic and specific name for the stickleback or *UVA MARINA* for the Alga (*SARGASSUM*) known as Sea-Grape. Further along (Edition II) occurs "*POISSON PÉTRIFIÉE*" indicated as "*Ichthyolithus*," which certainly is not the name of any genus. No scientific names, generic or specific, can be held to bear date from this first edition, 1764, of the dictionary of Valmont de Bomare.

"NOUVELLE ÉDITION," 1768, and "ÉDITION II," 1775.

The "Nouvelle édition," dated 1768, is the one examined by Mr. Garman. Except for the paging it seems substantially identical with the edition of 1775, formally called the "second." It has a few binomial terms, mostly among the sharks. The use of Latin equivalents for the French vernacular is still continued, but these assume more frequently a binomial form, especially in the rather elaborate index. The first edition (octavo) contains no index.

In the editions of 1768 and 1775 the only new names to be considered are *GALEUS*, *MUSTELUS*, *VULPECULA*, and *CATULUS*.

On page 116 (Edition II) we read:

"*CAGNOT BLEU*, *GALEUS GLAUCUS*, Grand poisson cartilagineux de la famille des chiens de mer." Then follows a fair account of the Great Blue Shark (*SQUALUS GLAUCUS* L.; *PRIONACE GLAUCA* of recent writers), taken from the description of the "Chien de mer bleu" of Rondelet (*de Piscibus*, 1558, p. 296). Rondelet begins "*GALEUS GLAUCUS*, en Languedoc, *CAGNOT BLEU*, poisson cartilagineux," etc. He uses the name "Chien de mer," or *GALEUS* in a general sense, including the "Aiguillat" (*ACANTHIAS*), the Emissole, ("*GALEUS LÆVIS*"), the "Chien de Mer Étoilé, *GALEUS ASTERIAS*," the "Mélandre, *GALEUS CANIS*," and the "Chien de Mer bleu, *GALEUS GLAUCUS*."

The other sharks are treated under different heads by Valmont. The entire arrangement appears in the index to the same volume.

"Cagnot bleu, *GALEUS GLAUCUS*," does not appear in the Fourth Edition (1791).

On page cxxxvii "MUSTELLUS" is defined:

"Espèce de Chien de mer, c'est le GALEUS STELLATUS des auteurs."

The name *SQUALUS MUSTELUS* L. was mostly based on Artedi's references to the "Émissole" or unspotted dog-fish, the *GALEUS LÆVIS* of Rondelet and Valmont. The specific name *MUSTELUS* should remain with that species. On the "LÆVIS" the name *MUSTELUS* of Linck in 1790 was clearly based. The same species, the "Émissole Commune," is clearly the type of *MUSTELUS* Cuvier (1817). But if the name *MUSTELUS* Valmont be accepted, its type must be the dog-fish with round spots, *SQUALUS STELLATUS* of Risso, *MUSTELUS ASTERIAS* Valmont.

On page ccxxii of the Index occurs the name "Renard Marin, *VULPECULA MARINA*." This is apparently borrowed from Willughby and it refers to *ALOPIAS VULPINUS*, the "Sea Fox" of modern authors. The name is not a "scientific" term, but merely a Latin rendering of the vernacular.

CATULUS rests on *CATULUS VULGARIS*, which is *SCYLLIORHINUS CANICULA* L. But the name is not available in any case, being preoccupied by *CATULUS* Kniphof, a genus of insects.

In the fourth edition (1791) Valmont gives a list of the genera of fishes. All those of Linnæus (1766) are enumerated, but no others and none of his own names are included in the list. Evidently he did not regard himself as having made additions to scientific nomenclature.

The eligibility of Valmont's names is questioned as binomial only by accident, and not accepted as genera by the author himself in 1791.

Galeus Valmont de Bomare, I, 371, 1768; type *SQUALUS GLAUCUS* L.

"CAGNOT BLEU, *GALEUS GLAUCUS*," with description.

If regarded as eligible *GALEUS* will replace *PRIONACE* and *CYNOCEPHALUS*.

Vulpecula Valmont de Bomare, III, 740, 1768; type *VULPECULA MARINA* Valmont = *SQUALUS VULPINUS* Bonnaterre = *SQUALUS VULPES* Gmelin.

"*VULPECULA MARINA*; *RENARD MARIN*," with description.

If eligible, *VULPECULA* will replace *ALOPIAS* Rafinesque, 1810.

Catulus Valmont de Bomare, IV, 51, 1768; type *SQUALUS CANICULUS* L. (*CATULUS MAJOR VULGARIS* Ray).

According to Sherborne, *Index Animalium*, it is preoccupied by *CATULUS* Kniphof, *De Pedic.*, p. 16, 1759, a genus of insects. Equivalent to *SCYLLIORHINUS* Blainville.

Mustelus Valmont de Bomare, Ed. II, 746, 1768, and Ed. III, 1775, lxxxi; type *GALEUS ASTERIAS* Valmont = *MUSTELUS CANIS* Mitchill, 1815 = *MUSTELUS STELLATUS* Risso, 1826.

"*Galeus asterias* aut *Mustelus stellaris*. Chien de mer à taches rondes."

XIII. GOUAN, *Historia Piscium*, 1770.

ANTOINE GOUAN.

Trachipterus Gouan, 104; type TRACHIPTERUS GOUANI = CEPOLA TRACHIPYPTERA Gmelin.

Lepadogaster Gouan, 105; type LEPADOGASTER GOUANI Gouan.

Lepidopus Gouan, 107; type LEPIDOPUS GOUANI Gouan (TRICHIURUS CAUDATUS Euphrasen).

XIV. KÆLREUTER, *Piscium Rarorum*; Novi Comm. Act. Petropolit. VIII, 1770.

JOSEPH GOTTLIEB KÆLREUTER.

Mola Kælreuter, 337; type MOLA ACULEATA Kælreuter.
Antedates MOLA Cuvier.

XV. FORSTER, *Catalogue of Animals of North America*, 1771.

JOHN REINHOLD FORSTER.

Remora Forster, 20; type ECHENEIS REMORA L.
Equivalent to REMORA of Catesby and of Gill.

XVI. BRÜNNICH, *Collectio Nova Scriptorum Societatis Scientiarum Hafnensis*, 1771.

M. T. BRÜNNICH.

Regalecus Brünnich, III, 418; type REGALECUS REMIPES Brünnich
(OPHIDIUM GLESNE Ascanius).
Also described in 1788.

XVII. CATESBY AND EDWARDS, *Natural History of Carolina, Florida and the Bahama Islands*, 1731-1750, by MARK CATESBY; Edition Second, 1771, by GEORGE EDWARDS.

The large folio volume in which Mark Catesby published the record of his visit to the Bahamas and other parts of America has had an important place in the history of American Ichthyology. Numerous editions of this work with the same plates have been published in German, French and English.

Two of these, the Edwards' Edition of 1771, and the edition quoted as "Catesby, Pisc. Imag., Etc., in 1777," are subsequent to Linnæus and may perhaps deserve consideration in nomenclature, although apparently not eligible in view of Opinion 57, which regards the post-Linnæan translation of Hasselquist as ineligible. These editions contain tables showing the Linnæan names of Catesby's species. Except as an evidence of "revision," these have no bearing on Catesby's "genera." If the generic names with polynomial specific names, of Gronow, Klein, and others are accepted, we can hardly refuse notice to the Latin nouns used by Catesby as republished by Edwards. These nouns have the force of genera, and being built about actual specimens they are mostly monotypic; while those of Gronow and Klein are subdivisions of a system, each covering as a rule many species. The names of Catesby are listed as genera in Sherborne's *Index Animalium* by an author who is rather critical of Latin vernaculars. But Catesby wrote before Artedi and Linnæus had framed the idea of a genus. He was not therefore consciously engaged in the differentiation of generic groups. He was not, to borrow a phrase from Mr. Stejneger, "playing the game." For this reason it seems to us that his names should not be admitted to the system. It is, however, very important to have a decision once for all in this matter.

The names in Edwards' Catesby are of doubtful eligibility as being Latin vernacular nouns rather than genera, and as a reprint virtually unchanged of a pre-Linnæan work.

Umbla Catesby, 1; type *ESOX BARRACUDA* Shaw (*SPHYRÆNA PICUDA* Bloch & Schneider). "UMBLA MINOR, MAXIMA MAXILLIS LONGIORIBUS, the Barracuda" Catesby.

Equivalent to *SPHYRÆNA* and prior to it, if accepted in the system.

Mormyrus Catesby, 2; type *ULÆMA LEFROYI* (Goode). "MORMYRUS EX CINEREO NIGRICANS, the Bone-fish" Catesby.

Identification somewhat uncertain. The name in any event is subsequent to *MORMYRUS* L.

Saurus Catesby, 2; type *SALMO FORTENS* L. "SAURUS EX CINEREO NIGRICANS, the Sea Sparrow Hawk" Catesby.

Identical with *SYNOBUS* Gronow, 1763.

Albula Catesby, 6; type *MUGIL CUREMA* Cuv. & Val. ("ALBULA BAHAMENSIS Catesby").

A synonym of *MUGIL* L., subsequent to *ALBULA* Gronow, 1763, and *ALBULA* Osbeck, 1761.

Hirundo Catesby, 8; type *CYPSELURUS* sp., "HIRUNDO" Catesby.

Not *HIRUNDO* L., 1758, a genus of Swallows.

Turdus Catesby, 9; type *LUTIANUS GRISEUS* (L.) "TURDUS PINNIS BRANCHIALIBUS CARENS, the Mangrove Snapper" Catesby.

Not *TURDUS*, 1758, a genus of Thrushes.

Alburnus Catesby, 12; type *CYPRINUS AMERICANUS* L. = *MENTICIRRUS AMERICANUS*. "ALBURNUS AMERICANUS, the Carolina Whiting" Catesby, type of *CYPRINUS AMERICANUS* L., *Syst. Nat.*, X, 321.

If accepted, the genus *ALBURNUS* must replace *MENTICIRRUS* Gill, and the genus of *CYPRINIDÆ* called *ALBURNUS* by Rafinesque and Agassiz must receive another name.

Cugupuguacu Catesby, 14; refers to *EPINEPHELUS MACULOSUS* (Cuv. & Val.). ("CUGUPUGUACU BRAZIL, the Hind" Catesby).

Catesby's fish is not that called *CUGUPUGUACU* by Marcgrave. If this barbarous name be allowed it will replace *EPINEPHELUS*. But it is evident that *CUGUPUGUACU*, *PETIMBUABO* and *ACARAUNA* are not in any sense generic names, but attempts on the part of Catesby to identify his species with those called in Brazil by these vernacular names. In the case of *ACARAUNA*, Catesby is himself doubtful. Even in case names used in an actual generic sense, as *UMBLA*, *AURATA*, *UNICORNIS* were allowed, *CUGUPUGUACU* and *ACARAUNA* should be rejected.

Saltatrix Catesby, 14; type *GASTEROSTEUS SALTATRIX* L., which is based on Catesby's figure, ("SALTATRIX, the Skipjack").

If allowed, will replace *POMATOMUS* Lacepède, 1802.

Suillus Catesby, 15; type *LACHNOLAIMUS SUILLUS* Cuvier, "SUILLUS" Catesby, based on Catesby's figure.

If allowed, *SUILLUS* will replace *LACHNOLAIMUS* Cuvier.

Aurata Catesby, 16; type *CALAMUS CALAMUS* (Cuv. & Val.). "AURATA BAHAMENSIS, the Porgy," Catesby.

Not *AURATA* Fleming, 1828, which is *SPARUS* L. If allowed, *AURATA* will replace *CALAMUS* Swainson.

Salpa Catesby, 17; type *SPARUS SYNAGRIS* L. (*LUTIANUS SYNAGRIS*, based on "SALPA PURPURASCENS VARIEGATA, the Lane Snapper," Catesby).

Prior to *SALPA* Forskål, 1775. If allowed, *SALPA* would replace *NEOMÆNIS* or *LUTIANUS* and perhaps add further to the confusion among the Salpoid Tunicates, although it is claimed that an earlier name, *DAGYSA*, must replace *SALPA* Forskål.

Novacula Catesby, 18; type *SCARUS CÆRULEUS* Bloch. "NOVACULA CÆRULEA, the Blue-fish," Catesby.

Name a synonym of *CALLYODON* Gronow, but prior to *NOVACULA* Cuvier, which is a synonym of *XVRICHTHYS* Cuvier.

Petimbubabo Catesby & Edwards, 18; refers to *FISTULARIA TABACARIA* L. "PETIMBUABO BRAZIL, the Tobacco Pipe-fish," Catesby.

A synonym of *FISTULARIA* L., but obviously not intended as a generic name.

Unicornis Catesby, 19; type *OSBECKIA SCRIPTA* (Osbeck). "UNICORNIS PISCIS BAHAMENSIS, the Bahama Unicorn-fish," Catesby.

If accepted, would replace *OSBECKIA* Jordan & Evermann.

Bagre Catesby, 23; type *SILURUS CATUS* L. (*AMEIURUS CATUS* L.) "BAGRE SECUNDÆ SPECIEI MARCGRÆVI AFFINIS, the Cat-fish," Catesby.

If accepted, *BAGRE* must replace *AMEIURUS*.

Harengus Catesby, 24; type *CLUPEA SARDINA* Poey. "HARENGUS MINOR BAHAMENSIS, the Pilchard," Catesby.

Equivalent to *HARENGULA* Cuv. & Val., and, if allowed, would replace the latter.

Anthea Catesby, 25; refers to *MESOPRION ANALIS* Cuv. & Val. A species of *NEOMÆNIS*, Girard. "ANTHEA QUARTUS RONDELETI, the Mutton-fish," Catesby.

Not intended as a generic name, being wrongly identified with the fourth *ANTHIA* of Rondelet.

Remora Catesby, 26; type *ECHENEIS REMORA* L. "REMORA, the Suck-ing-fish," Catesby.

Equivalent to *REMORA* Forster, and of Gill.

Solea Catesby, 27; type *PLEURONECTES LUNATUS* L., based on Catesby's figure. "SOLEA LUNATA ET PUNCTATA, the Sole," Catesby.

Not *SOLEA* of Klein nor of subsequent writers. If allowed, *SOLEA* would replace *PLATOPHYRUS*; and *SOLEA* of Klein, Quensel, Rafinesque and Cuvier would require a new name.

Orbis Catesby & Edwards, 28; type *TETRAODON TESTUDINEUS* L. "ORBIS LÆVIS VARIEGATUS, the Globe-fish," Catesby.

A synonym of *TETRAODON* L.

Psittacus Catesby, 29; type *LABRUS CATESBEI* Lacepède. "PSITTACUS PISCIS VIRIDIS BAHAMENSIS, the Parrot-fish," Catesby.

Not *PSITTACUS* L., 1758, a genus of parrots.

Acus Catesby, 30; type *ESOX OSSEUS* L. "ACUS MAXIMA SQUAMOSA VIRIDIS, the Green Gar-fish," Catesby.

Equivalent to *PSALISOSTOMUS* Klein and *LEPISOSTEUS* Lacepède.

Acarauna Catesby, 31; refers to *HOLACANTHUS CILARIS* L. "AN ACARAUNA MAJOR PINNIS CORNUTIS AN PARU BRASILIENSIBUS?, the Angel-fish," Catesby.

This name cannot be used to replace *HOLACANTHUS* as it represents a very doubtful identification on the part of Catesby; not at all a generic division.

Vipera Catesby, 9, Appendix; refers to *VIPERA MARINA* Catesby (*CHAULIODUS SLOANI* Bloch & Schneider).

As it is a fish, it cannot belong to the genus *VIPERA* L. *VIPERA MARINA* is apparently merely a vernacular name, sea-viper or viper-fish being intended.

Cataphractus Catesby, 9, Appendix; type *SILURUS CATAPHRACTUS* L. = *DORAS CATAPHRACTUS* of authors = *CATAPHRACTUS AMERICANUS* Catesby.

This name, being preoccupied, cannot replace *DORAS* Lacepède.

XVIII. GÜLDENSTADT, *Acerina piscis ad Percæ genus pertinens*:
Nov. Comm. Acad. Petropol., 1774, XIX.

ANTON JOHANN VON GÜLDENSTADT.

Not seen by us.

Acerina Güldenstadt, 455; type *PERCA CERNUA* L. (*ACERINA KABIR* Güldenstadt).

Equivalent to *CERNUA* Schæfer.

XIX. *Descriptiones Animalium quæ in Itinere Orientali Observavit*,
by PETRUS FORSKÅL (edited after the death of the author
by CARSTEN NIEBUHR). 1775.

Siganus Forskål, X; type *SCARUS RIVULATUS* Forskål.

No definition. This genus has been of late years generally called *TEUTHIS*, but apparently this Linnæan name should remain with the group for which Browne first used it.

Torpedo Forskål, 1775, 16; type *RAJA TORPEDO* (not of Linnæus) =
SILURUS ELECTRICUS Gmelin, *MALAPTERURUS ELECTRICUS* Lacepède.

Forskål describes the Electric Cat-fish of the Nile under the erroneous name of *RAJA TORPEDO* L. He questions whether it might be allied to *MORMYRUS* or whether it might find a place among the torpedoes of Rondelet, or might it be type of a new genus. "Aut potius novum constituere genus. Certe determinatur torpedinis CHARACTER GENERICUS: Piscis branchiostegus: apertura lineari, obliqua supra pinnæ pectorales; corpore nudo: pinnis ventralibus seu abdominalibus; dentibus numerosissimis densis, subulatis." This statement leaves no question as

to the species in mind, but *TORPEDO* Houttuyn, 1764, if available, is of still earlier date.

Salaria Forskål, X and 22; type (without specific name) = *BLENNIUS BASILISCUS* L.

The genus is equivalent to *BLENNIUS* L. Not *SALARIAS* Cuvier.

Scarus Forskål, 25; type *SCARUS PSITTACUS* Forskål.

The type no doubt intended was *LABRUS SCARUS* L., of the Mediterranean "antiquo nomine *σάραρος*"; but that species was not mentioned by Forskål, and another must be taken as the type. The name *SCARUS* was earlier used by Gronow as a synonym of *LABRUS*. *SCARUS* of Forskål must give way to *CALLYODON* of Gronow if the names of Gronow are to be adopted. This is unfortunate, as *CALLYODON* has been used by most authors as the name of another genus in the same family.

Abu-defduf Forskål, 59; type *CILÆTODON SORDIDUS* Forskål.

Equivalent to the later *GLYPHISODON* of Lacepède, 1803. The definition of this genus admits of no question. It occurs in the same paragraph with the equally accurate definition of *ACANTHURUS*. It may receive objection as a barbarous name. It was probably a "stop-gap" word for which Forskål intended to supply a Latin equivalent. This his editor after his death failed to do and we must apparently take it as it stands: "A generic name is a name without necessary meaning." (*Baird.*)

Acanthurus Forskål, 59; type *CILÆTODON SORIAL* Forskål; to be replaced by *HEPATUS* Gronow, if Gronow's names are adopted; otherwise by *TEUTHIS* L.

Later restricted by authors to the first species named. *CIL. UNICORNIS*.

Besides these names, clearly eligible, Forskål lists a number of subordinate groups or subgenera, under *PERCA*, *SCARUS* and *SCIÆNA*. Some of these are properly and fully defined, and would be accepted without question if in Latin. But all are in Arabic, and may perhaps be taken as vernacular words, as one might divide a genus into "Groupers," "Snappers" and "Porgies." We may perhaps reject them on the same ground as that on which we reject "*les sphéroides*."

In addition to these more or less formal names are two sections, one under *SCARUS* called "*dentibus Abudjubbe*," equivalent to *CHEILINUS* Lac., and one "*dentibus Harid*," equivalent to *SCARUS*. *LOUTI* and *DABA* are above reproach, except as to their Arabic origin. *ABUHAMRUR* is defined by reference to its type species. *NAQUA* is based on a species referred with doubt to *SCIÆNA*. *GHANAN*, *SCHOUR* and *TAHUMEL* are names only, identifiable by the correspondence with the Arabic names of their type species.

These names of Forskål doubtfully eligible, being vernacular and not meant as subgeneric.

Naqua Forskål, xvii; type *SCIÆNA GIBBA* Forskål.

With definition as "Piscis marinis rubri obscuris, an *Sciæna* 48?" Equivalent to *GENYOROGA* Cantor, 1850.

Louti Forskål, 44; type *PERCA LOUTI* Forskål.

With full definition. Equivalent to *VARIOLA* Swainson, 1839, which apparently it should replace.

Daba Forskål, 44; type *PERCA AREOLATA* Forskål.

With full definition. *EPINEPHELUS* Bloch, 1798, which apparently it should replace.

Abuhamrur Forskål, 44; type *SCIÆNA HAMRUR* Forskål.

With definition by reference to the type species. *PRACANTHUS* Cuvier, 1817.

Hobar Forskål, 44; type *SCIÆNA BOHAR* Forskål.

With short definition. *LUTIANUS* Bloch, 1790.

Farer Forskål, 44; type *SCIÆNA SAMMARA* Forskål.

With definition. *HOLOCENTRUS* Gronow, 1763.

Ghanan Forskål, 44; type *SCIÆNA GHANAM* Forskål.

Without definition. *SCOLOPSIS* Cuvier, 1817.

Djabub Forskål, 44; type *SCIÆNA JARBUA* Forskål.

With definition. *THERAPON* Cuvier, 1817.

Gaterin Forskål, 44; type *SCIÆNA GATERINA* Forskål.

With scanty definition. *PLECTORHINCHUS* Lacepède, 1800.

Schour Forskål, 44; type *SCIÆNA NEBULOSA* Forskål.

Without definition. *LETHRINUS* Cuvier, 1817.

Tahhmel Forskål, 44; type *SCIÆNA TAHHMEI* Forskål.

Without definition. *KYPHOSUS* Lacepède, 1800, subgenus *OPISTHISTIUS* Gill, 1862.

XX. KLEIN, *Neuer Schauplatz der Natur, nach den Richtigsten Beobachtungen und Versuchen, in Alphabetischer Ordnung.*

Durch eine Gesellschaft der Gelehrten. Weidmann, Leipzig. (Quoted as "Gesellschaft Schauplatz.")

No author named, the account of the fishes compiled from *Historia Piscium Naturalis* Klein, perhaps by Philip Ludwig Statius Müller, professor at Erlangen. Vol. I, 1775; vol. II, 1776; vol. III, 1776; vol. IV, 1777; vol. V, 1777; vol. VI, 1778; vol. VII, 1779; vol. VIII, 1779; vol. X, 1781.

JAKOB THEODOR KLEIN.

In a recent monograph of the sharks and rays (PLAGIOSTOMIA: Mem. Mns. Comp. Zool., Harvard College, XXXVI, 1916) Mr. Samuel Garman calls attention to the availability in nomenclature of names of genera accepted from Klein, a pre-Linnæan writer, in a post-Linnæan dictionary called "Neuer Schauplatz," or for convenience "Gesellschaft Schauplatz." This publication began, according to Mr. Garman, as a translation of Valmont de Bomare, but later it was extended and improved.

We find no copy of this work in the libraries of Washington and New York. It is probable that the copy in Mr. Garman's possession, which its owner has kindly placed at our disposal, is the only one now in the United States.

Mr. Garman remarks: "The Schauplatz referred to above is anonymous, it is true, but it gives the authorities for its generic and specific names, and thus its citations amount to republication after 1758, by the original authors, previous as the first publication may have been."

All the generic names used by Jacob Theodor Klein in his *Historia Piscium Naturalis*, 1740 to 1744, are here reproduced and accepted, thus bringing them for consideration into eligibility in scientific nomenclature. If accepted they therefore replace nearly all competing names except those of Artedi (1738) accepted by Linnæus (1758), and those of Gronow (1763).

Toward the middle of the eighteenth century the idea of genus among animals as a basis of classification became common property among naturalists. The name of the genus was recognized as consisting of a single word, but, until 1758, the species was indicated by a descriptive phrase attached to the name of the genus. By the device of binomial nomenclature, Linnæus made the system coherent, allotting to genus and species each a single word, the first a noun, the second of the nature of an adjective or genitive. In zoology, scientific nomenclature therefore dates from January 1, 1758, the time of the development of this system by Linnæus in the Tenth Edition of his *Systema Naturæ*.

Prior to Linnæus, on the basis of definite genera with polynomial species, three distinguished ichthyologists had separately developed, without knowledge of each other's work, a system of classification of fishes. These were Peter Artedi, "the Father of Ichthyology," in Upsala, in 1738; Jacob Theodor Klein, in Jena, 1740 to 1744; and Lorenz Theodor Gronow, in Leyden, 1754 to 1780. Of these authors the work of Artedi was the most compact and accurate, that of Klein the most elaborate, and that of Gronow based on the most material. Artedi's work was the basis of Linnæus's classification of the fishes. The principal part of the work

of Gronow was published in 1763. His names have been accepted as eligible by the International Commission of Zoological Nomenclature.

In this paper we give a list of these genera of Klein together with the Linnæan type, each as understood or as indicated by the present writer. In deciding on the type, the writer has been materially aided by the possession of a copy of Klein's *Historia Piscium Naturalis*, which was once the property of his commentator, Dr. Johann Julius Walbaum of Greifswald, and which contains profuse annotations in Walbaum's own handwriting.

Dr. Walbaum himself published in 1792 (*Petri Artedi sueci Genera Piscium*, 589-587) a classified record of the genera of Klein, but without actually accepting these as part of the System. Later Walbaum printed an Index to all these early names of various authors, as *Ichthyologia Enodata sive Index Rerum* (Leipzig, 1793). In this Index the generic and other names used by previous writers are arranged in alphabetical order with indication of the Linnæan synonymy. This again does not, in the view of the Zoological Commission (Opinion 21), involve the acceptance of any of these names. A reprint of Klein's *Historia Piscium Naturalis* was published, with notes by Walbaum, in 1802.

In the *Gesellschaft Schauplatz* Klein's names are frankly adopted, and the chief serious objection to be raised is that the species are named polynomially. We here omit those names in the *Schauplatz*, as ACIPENSER, CYPRINUS, XIPHIAS, etc., which had been used by Linnæus and were already accepted in the System with the same significance. We are indebted to Mr. Garman for the verification of the list and for the insertion of page references.

Illustrations of the method of the elliptical and disorderly *Schauplatz* are the following. In vol. I, p. 918, 1777, we read:

"Botte. RHOMBUS, ein Kleinisches Fischgeschlecht, welches Linné, PLEURONECTES G. 163, Müller Seitenschwimmer, Richter Butten nennt," etc. Description follows.

In III, p. 512, we find: "GREETE, Kleinische, eine Art platteise, Butten, Richter: s(iche) Botte, RHOMBUS, des Kleins und unsern Artikel Th. I, s. 918; desgleichen Flunder, PASSER 4 des Kleins und unsern Artikel Th. III, s. 151" etc.

"PASSER 4" is the species called "PASSER ASPER s(EU), SQUAMOSUS Rondlet. This species is PLEURONECTES LIMANDA L. With (eight) other species named polynomially, it is set forth in the *Schauplatz*, after Klein. The quotations from Müller probably refer to the Nürnberg Edition of the *Systema Naturæ*, published in German by Professor Philip

Ludwig Statius Müller of Erlangen, in 1776. This edition in its Supplement contains a few new specific names but no new genera, so far as noticed.*

The reference to "Richter," refers apparently to a work published at Leipzig, in 1754, by J. G. O. Richter, entitled "*Ichthyotheologie, oder Versuch die Menschen aus Betrachtung der Fische zu Bewunderung des Schöpfers zu führen.*" This we have not seen, but quote the title from Bosgoed. The same work appears in Dutch, in 1768, as "*Godleerende Vischkunde.*"

The names in the "*Gesellschaft Schauplatz*" are all of doubtful eligibility, because not adopting the Linnæan Code as to species, and possibly because published in an anonymous dictionary.

Conger Klein, I, 22, 1775; type *MURÆNA CONGER* L. "CONGER PINNA MEMBRANACEA" Klein.

A synonym of *CONGER* Houttuyn.

Enchelyopus Klein, I, 32, 1775; type *TRICHIURUS LEPTURUS* L. "ENCHELYOPUS CAPITIS PRODUCTO SERPENTINO" Klein.

A synonym of *TRICHIURUS* L., not *ENCHELYOPUS* Gronow.

Brama Klein, I, 61, 932, 1775; type *CYPRINUS BRAMA* L. "BRAMA PRIMI RADIO PINNÆ DORSALIS SIMPLICI" Klein.

BRAMA, if accepted, replaces *ABRAMIS* Cuvier, and the marine genus now called *BRAMA* would take the name of *LEPODUS* Rafinesque.

Galeus Klein, I, 70, 1775; type *SQUALUS GALEUS* L. "GALEUS ROSTRI EXTREMA PARTE PELLUCIDA" Klein.

Equivalent to *GALEORHINUS* Blainville, 1816 = *GALEUS* Cuvier, 1817, not *GALEUS* Valmont, 1768, nor of Rafinesque, 1810.

Trutta Klein, I, 115, 1775; type *SALMO TRUTTA* L. "TRUTTA TOTA ARGENTEA" Klein.

A synonym of *TRUTTA* L.

Leuciscus Klein, I, 172, 1775; type *CYPRINUS LEUCISCUS* L. "LEUCISCUS SUPRA LINEA LATERALIS" Klein.

LEUCISCUS Klein would replace *LEUCISCUS* Cuvier, Rafinesque, Agassiz, for the same group.

Pelamys Klein, I, 176, 1775; type *SCOMBER SCOMBRUS* L. "PELAMYS CORPORE CASTIGATO" Klein, the "makarel" of Willughby.

The genus, based on the tunnies and the mackerels, is exactly coterminous with *SCOMBER* L. If regarded as eligible, the genus of snakes, *PELAMYS* Daudin, must receive a new name.

*See "On the Fishes Described in Muller's Supplemental Volume to the *Systema Naturæ* of Linnæus," D. S. Jordan, Proc. Acad. Nat. Sci., 1890, p. 48.

Harengus Klein, I, 209, 1775; type *CLUPEA HARENGUS* L. "HARENGUS VULGARIS" Klein.

Synonym of *CLUPEA* L.

Amphisilen Klein, I, 280, 1775; type *CENTRISCUS SCUTATUS* L. "AMPHISILEN" Klein.

Monotypic. A synonym of *CENTRISCUS* L., and *AMPHISILE* Cuvier.

Latargus Klein (misprint for *LATHARGUS*), I, 298, 1775; type *ANARHICHAS LUPUS* L. "LATARGUS ROSTRO RETUSO DENTIS HORRIDIS" Klein.

Synonym of *ANARHICHAS* L. Monotypic.

Leiobatus Klein, I, 316, 1775; type *RAJA ONYRHYNCHUS* L. "LEIOBATUS ROSTRO OMNIUM LONGISSIME PRODUCTO" Klein.

Synonym of *RAJA* L. Includes all smooth rays.

Synagris Klein, I, 442, 1775; type *SPARUS AURATA* L. "SYNAGRIS DORSO OBSCURE VIRIDE" Klein.

A synonym of *SPARUS* L. Includes many sparoid fishes.

Mystus Klein, I, 535, 1775; type "MYSTUS FLUVIATILIS" Klein = *CYPRINUS BARBUS* L., not *MYSTUS* Gronow, 1763.

Equivalent to *BARBUS* Cuvier.

Passer Klein, I, 816, 1775; type *PLEURONECTES FLESUS* L. "PASSER CUTE DENSIS TUBERCULIS."

Not of Brisson, 1760, a genus of birds. A synonym of *FLESUS* Moreau.

Glaucus Klein, I, 829, 1775; type *SCOMBER GLAUCUS* L. "GLAUCUS ACULEATUS MACULIS IN UTROQUE LATERE" Klein.

GLAUCUS, if allowable, replaces *CÆSIOMORUS* Lacepède, a genus distinct from *TRACHINOTUS* Lacepède, 1803. *HYPODIS* Rafinesque, 1810, is the same.

Rhombus Klein, I, 918, 1775, VIII, 88, 1779; type *PLEURONECTES RHOMBUS* L. "RHOMBUS OMNIUM MINIMUS PALMÆ LONGITUDINE."

This name antedates *RHOMBUS* Da Costa, 1776, a genus of Snails. If eligible, it replaces *Bothus* Rafinesque, and is equivalent to *RHOMBUS* Cuvier, 1817. The other nominal species of *RHOMBUS* are synonyms of the Turbot, *PSETTA MAXIMA* (L.).

Rhombotides Klein, I, 922, 1775; type *CHÆTODON CÆRULEUS* Bloch. "RHOMBOTIDES OBSCURE CÆRULEUS" Klein, after Catesby.

Synonym of *ACANTHURUS* Forskål, and of *TEUTHIS* of Browne and Linnæus, Klein suggests as substitute names, if *RHOMBOTIDES* is not acceptable, *EUROPUS* and *PSETTA*.

Sargus Klein, I, 966, 1775; type *SPARUS SARGUS* L. "SARGUS PINNIS VENTRALIBUS" Klein.

SARGUS, if allowed, replaces *DIPLODUS* Rafinesque, and *SARGUS* Cuvier. The genus of Insects called *SARGUS* would in this case require a new name.

Dasybatus Klein, I, 991, 1775; type *RAJA PASTINACA* L. "DASYBATUS CAUDA SQUAMEIS OSSEIS" Klein.

DASYBATUS, if allowed, replaces *DASYATIS* Rafinesque and *TRYGON* Adanson. Intended to include all the rough-skinned rays.

Prochilus Klein, I, 1043, 1775; type, as here restricted, "PROCHILUS LÆVIS LATERIBUS CARINATUS" Klein (*BLENNIUS PHOLIS* L.).

Equivalent to *PHOLIS* Cuv. & Val., a name used earlier for another genus by Gronow and Scopoli. In this sense *PROCHILUS* is a subgenus under *BLENNIUS*. ..

On plates in Bleeker's Atlas, *PROCHILUS* is used instead of *AMPHIPRION*, the species named first by Klein being *AMPHIPRION EPIHIPPIUM* (Bloch). We find, however, no formal restriction of *PROCHILUS* by Bleeker.

Labrax Klein, II, 32, 1775, and VIII, 164, 1779; type *PERCA LABRAX* L. "LABRAX SIVE LUPUS" Klein.

LABRAX, if allowed, replaces *DICENTRARCHIUS* Gill = *LABRAX* Cuvier, 1817. Not *LABRAX* of Pallas, 1810, which is *HEXAGRAMMUS*.

Percis Klein, II, 45, Ed. 2, 1776; type *PERCA CERNUA* L., as restricted by Bleeker, *Systema Percarum Revisum*. "PERCIS PINNIS SEX ANTERIORE PARTE DORSALIS 14" Klein.

Equivalent to *CERNUA* Schæfer 1761, *GYMNOCEPHALUS* Bloch & Schneider 1801, to *ACERINA* Cuvier 1817, and *CERNUA* Fleming 1828; not *PERCIS* Scopoli 1777, nor of Cuvier.

Narcacion Klein, II, 237, 1776; IV, 726, 1777; type *RAJA TORPEDO* L. "NARCACION DEMA CAUDA SINUOSA CIRCULARIS" Klein.

NARCACION, if accepted, replaces *TORPEDO* Duméril, not of Forskål. If rejected, *NARCOBATUS* Blainville is next in date. Monotypic.

Mænas Klein, II, 360, 1776; type *SPARUS MÆNA* L. "MÆNAS DILUTE VIRIDIS" Klein.

MÆNAS would replace *MÆNA* Cuvier.

Cicla Klein, II, 412, 1776; type *LABRUS VIRIDIS* L. "CICLA VIRIDIS OPERCULORUM" Klein.

Synonym of *LABRUS* L. Comprises all the species of *LABRUS* L., called *TURDUS* or *MERULA* by authors, these names also signifying "thrush". If accepted, *CICHLA* Bloch & Schneider, 1801, would require a new name.

Rhina Klein, II, 587, 1776; type *RIHINA SQUATINA* L. "RIHINA SIVE SQUATINA" Klein.

RIHINA, if allowed, replaces *SQUATINA* Duméril.

Rhinobatus Klein, II, 593, 1776; type *RAJA RHINOBATUS* L. "RHINOBATUS SEU SQUATINO RAJA" Klein.

RHINOBATUS would replace *RHINOBATUS* Bloch & Schneider, 1801, and *SYRRHINA* Müller & Henle, based on the same species.

Solea Klein, III, 115, 1776; type *PLEURONECTES SOLEA* L. "SOLEA SQUAMIS MINUTIS" Klein.

SOLEA Klein would replace *SOLEA* Rafinesque, *SOLEA* Quensel and *SOLEA* Cuvier.

Pseudopterus Klein, III, 139, 1776; type *GASTEROSTEUS VOLITANS* L. "PSEUDOPTERUS QUI PERCA AMBOINENSIS" Klein.

Replaces, if allowed, *PTEROIS* Cuvier.

Tetragonoptrus Klein, III, 153, 1776; type *CHÆTODON CAPISTRATUS* L. "TETRAGONOPTRUS LÆVIS AD CAUDAM BRUNNEA" Klein.

Synonym of *CHÆTODON* L. Bleeker uses this name in place of *CHÆTODON*, as Artedi's "type" of *CHÆTODON*—that is, the species first named—is a *POMACANTHUS*. But Artedi included also true species of *CHÆTODON* in his list, and the name was adopted by Linnæus from his own use of it, in the *Amantitates Academicia*.

Batrachus Klein, III, 202, 1776; type *LOPHIUS PISCATORIUS* L. "BATRACHUS RICTUQUE RANÆ" Klein.

Synonym of *LOPHIUS* L., not *BATRACHUS* Bloch & Schneider, 1801.

Mastacembelus Klein, III, 271, 1776; type *ESOX BELONE* L. "MASTACEMBELUS MANDIBULIS LONGISSIMIS" Klein.

Not *MASTACEMBELUS* Gronow, 1763; stands as *BELONE* Cuvier.

Platiglossus Klein, III, 300, 1776; type *HALICHERES MARGINATUS* Rüppell. "PLATIGLOSSUS SUBRUFUS SQUAMULIS LÆVIBUS" Klein.

Accepted by Bleeker as *PLATYGLOSSUS*. Klein's figure is crude, but recognizable.

Lucius Klein, III, 506, 1776; type *ESOX LUCIUS* L. "LUCIUS . . . ROSTRO QUASI ANSERINO" Klein.

Synonym of *Esox* L. = *LUCIUS* Rafinesque.

Cestracion Klein, III, 523, 1776; type *SQUALUS ZYGÆNA* L. "CESTRACION FRONTE ACUS" Klein.

CESTRACION, if accepted, replaces *SPHYRNA* Rafinesque and *ZYGÆNA* Cuvier. *CESTRACION* Cuvier is a different genus, *HETERODONTUS* Blainville, *CENTRACION* Gray.

Trichidion Klein, III, 592, 1776; type *POLYNEMUS VIRGINICUS* L. "TRICHIDION CORPORE OBLONGO" Klein.

A synonym of *POLYNEMUS* L. as restricted by authors generally. Monotypic.

Asperulus Klein, III, 686, 1776; X, 236, 1781; type *PERCA ZINGEL* L. "ASPERULUS VEL ASPREDO DORSO ACUTO" Klein.

Identical with *ZINGEL* Oken. Monotypic.

Corystion Klein, III, 762, 1776; type *TRIGLA LAPPONICA* L. "CORYSTION CORPORE GRANULATO" Klein.

A synonym of *TRIGLA* L.

In volume III of the *Gesellschaft Schauplatz*, 1776, pp. 61-73, is given a list of the genera of fishes. This includes so far as we note all those proposed by Klein and those of Linnæus also, those of Klein appearing first. The names are not in alphabetical order, but follow the sequence of Klein's *Historia Piscum Naturalis*. This seems to imply a post-Linnæan acceptance of all of Klein's genera, even were their use in the text rejected. One new name appears:

Pristis Klein, III, 61, 1776; type "PRISTIS, der Sägeschnautz."

Equivalent to *PRISTIS* Linck.

XXI. SCOPOLI, *Introductio ad Historiam Naturalem*, Prague, 1777.

JOHANN ANTON SCOPOLI.

A descriptive catalogue of the genera of animals and plants. The genera of fishes are mostly those of Linnæus and Gronow. No types are named save in the two new, *PERCIS* and *PTERIDIUM*.

The following names given by Gronow are not accepted by Scopoli:

ENCHELYOPUS (regarded as a synonym of *BLENNIUS*), *ELEOTRIS* (= *GOBIVS*), *PLECOSTOMUS* (= *LORICARIA*), *CORACINUS* (= *SCLENA*), *CAL-LORHYNCHUS* (= *CHIMLERA*), *CATAPHRACTUS* (= *PEGASUS*), *GYMNO-GASTER* (= *TRICHIURUS*), *CYCLOGASTER* (= *LIPARIS*), *HEPATUS*, (= *TEUTHIS*); *AMIA* is used only in the Linnæan sense.

Liparis (Artedi) Scopoli, 453; type (not named) *CYCLOPTERUS LIPARIS* L.

Percis Scopoli, 454; type *COTTUS JAPONICUS* Pallas.

Equivalent to *HIPOCEPHALUS* Swainson, 1839, not *PERCIS* Klein.

Pteridium Scopoli, 454; type *CORYPHLENA VELIFERA* Pallas (*PTERACLIS* Gronow).

The following names of Gronow are introduced into Linnæan nomenclature by Scopoli, without mention of type. These date from Scopoli, 1777, if the *Zoophylacum* of Gronow, 1763, be not accepted.

ERYTHRINUS, 449	MYSTUS, 451
SYNODUS, 449	CALLICHTHYS, 451
CALLYODON, 449	ASPREDO, 453
HOLOCENTRUS, 449	CHARAX, 455
(misprinted HOLOCENTHRUS)	CLARIAS, 455
GONORHYNCHUS, 450	CYNÆDUS, 455
ALBULA, 450	PHOLIS, 456
UMBRA (Krämer), 450	MASTACEMBELUS, 458
ANABLEPS, 450	CHANNA, 459
ANOSTOMUS, 451	

XXII. FORSTER, *Icones Ineditæ*; Bibliotheca Banksiæ, 1777.

JOHN REINHOLD FORSTER.

Echidna Forster, 181; type ECHIDNA VARIEGATA Forster = MURÆNA ECHIDNA Gmelin.

This generic name, according to Kaup, first appears in 1777, in the *Icones Ineditæ*. It must be retained for the genus of fishes, and is not available for the genus of mammals named ECHIDNA by Cuvier, = TACHYGLOSSUS.

XXIII. KLEIN, *Gesellschaft Schauplatz*, vols. IV, V, 1777.

JAKOB THEODOR KLEIN.

Oncotia Klein, IV, 46, 1777; type CYCLOPTERUS LUMPUS L. "ONCOTIA COLORE NIGRICANTE" Klein.

A synonym of CYCLOPTERUS L.

Cynocephalus Klein, IV, 161, 1777; type SQUALUS GLAUCUS L. "CYNOCEPHALUS GLAUCUS" Klein, as restricted by Gill.

CYNOCEPHALUS Boddart is of later date. Equivalent to PRIONACE Cantor.

Callarias Klein, IV, 327, 1777; type GADUS MORRHUA L. "CALLARIAS SORDIDE OLIVACEUS" Klein.

Synonym of GADUS L.

Crayracion Klein, IV, 788, 1777; type TETRAODON SPENGLERI Bloch. "CRAYRACION LÆVISSIMUS EX TERREO RUFESCENS" Klein.

A synonym of TETRAODON L.

The type of this genus was first fixed by Bleeker, *Atlas Ichth.*, 1865, 65. Bleeker observes: "La première espèce du genre compliqué que Klein en 1742 déjà nomma CRAYRACION étant le TETRAODON SPENGLERI des auteurs ou au moins une espèce extrêmement voisine, je propose d'indiquer sous ce nom générique toutes

les espèces à tentacule nasale non perforée. . . . Le nom de CRAYRACION est antérieur de plusieurs années à celui de TETRAODON et devrait être substitué à ce dernier si le type du genre n'était pas reconnu à un genre distincte du CRAYRACION LÆVISSIMUS de Klein."

This fixes the type of Klein on the species figured by him, but Bleeker is in error in supposing TETRAODON SPENGLERI to be a species with closed nostrils. The proper name for that group—(AROTHIION Müller: TETRAODON of several authors) seems to be OVOIDES Cuvier.

Cataphractus Klein, IV, 828, 1777; type COTTUS CATAPHRACTUS L.

"CATAPHRACTUS ROSTRO RESIMO" Klein.

Not CATAPHRACTUS Gronow. Stands as AGONUS Lacepède.

Capriscus Klein, V, 427, 1777; type BALISTES CAPRISCUS Gmelin.

"CAPRISCUS TRIBUS ACULEIS" Klein.

Synonym of BALISTES L.

Cestreus Klein, V, 460, 1777; type MUGIL CEPHALUS L. "CESTREUS DORSO REPANDO" Klein.

A synonym of MUGIL L.

XXIV. FORSTER, *Enchiridion*, 1778.

JOHN REINHOLD FORSTER.

Harpurus Forster, 84; type HARPURUS FASCIATUS FORSTER.

Equivalent to HEPATUS, TEUTHIS and ACANTHURUS.

XXV. KLEIN, *Gesellschaft Schauplatz*, vols. VI to X, 1778 to 1781.

JAKOB THEODOR KLEIN.

Solenostomus Klein, VI, 32, 1778; type FISTULARIA TABACCARIA L.

"SOLENOTOMUS CUTE GLABRA" Klein.

Synonym of FISTULARIA. If SOLENOTOMUS is accepted, a new generic name is required for SOLENOTSMUS Lacepède.

Sphyræna Klein, VI, 464, 1778; type ESX SPHYRÆNA L.

Would replace SPHYRÆNA Röse, unless UMBLA Catesby is available.

Gobio Klein, VII, 178, 1779; type GOBIUS NIGER L. "GOBIO BRANCHIARUM OPERCULIS ET VENTRE FLAVICANTHUS" Klein.

If allowed, GOBIO Klein becomes a synonym of GOBIUS L. and a new name would be required in place of GOBIO Cuvier.

Hippurus Klein, VII, 788, 1779; type CORYPHÆNA HIPPURUS L. "HIPPURUS PINNIS BRANCHIALIBUS" Klein.

Synonym of CORYPHÆNA L.

Blennus Klein, VIII, 589, 1779; type **BLENNIUS OCELLARIS** L. "BLENNUS PINNICEPS COLORIS" Klein.

Synonym of **BLENNIUS** L.

Psalisostomus Klein, X, 154, 1781; type **ESOX OSSEUS** L. "PSALISOSTOMUS OMNIUM MAXIMUS" Klein.

If allowed, replaces **LEPISOSTEUS** Lacepède.

XXVI. HERRMANN, *Schreiben ueber eine neues Americanisches Fischgeschlecht*, STERNOPTIX: Der Naturforscher, 2 Stück, vol. XVI, 1781.

JOHANN HERRMANN.

Sternoptix Herrmann, 8, 36; type **STERNOPTIX DIAPHANA** Herrmann.
Monotypic.

XXVII. HOUTTUYN, *Beskrivning van Ecnige Japanske Visschen*: Actæ Harlemensis, XX, pt. 2, 1782.

MARTIN HOUTTUYN.

Centrogaster Houttuyn, 333; type **CENTROGASTER FUSCESCENS** Houttuyn.
A synonym of **SIGANUS** Forskål.

XXVIII. BLOCH, *Naturgeschichte der Ausländischen Fische*. Nine parts, 1785 to 1795. Part 2, 1786.

MARK ELIESER BLOCH.

Kurtus Bloch, II, 122, 1786; type **KURTUS INDICUS** Bloch.

Also written **KYRTUS** and **CYRTUS**. Monotypic.

Macrourus Bloch, II, 150, 1786; type **CORYPHÆNA RUPESTRIS** Fabricius, the "Ingmingoak" = **MACROURUS BERGLAX** Lacepède, which is not the same as **CORYPHÆNOIDES RUPESTRIS** Gunner.

XXIX. BLOCH, *Ueber Zwey Merkwürdige Fisch-Arten*: Abhandlungen Böhmischer Gesellschaft, I, 1787.

Notacanthus Bloch, 278; type **NOTACANTHUS CHEMNITZI** Bloch.

This name was changed by Bloch in 1797 to **ACANTHONOTUS** and the species to **ACANTHONOTUS NASUS**. Monotypic.

XXX. AHL, *De Muræna et Ophichtho*, 1787.

JONAS NICHOLAS AHL.

Ophichthus Ahl, 5; type *MURÆNA OPHIS* L., as restricted.

Unquestioned.

XXXI. ASCANIUS, *Beretning um Silde-Tusten*: Dansk. Selsk. 1788.

P. ASCANIUS

Regalecus Ascanius, III, 419; type *OPHIIDIUM GLESNE* Ascanius.

Other dates have been quoted, for example "Icones," 1772, a series of plates of objects in nature. This may not be the oldest.

XXXII. BLOCH, *Charactere und Beschreibung des Geschlechts der Papageyfische*, *CALLYODON*: Abhandlungen Böhmischer Gesellschaft, IV, 1788.

MARK ELIESER BLOCH.

Callyodon Bloch, 242; type (presumably) *SCARUS CROICENSIS* Bloch.

Not seen by us.

XXXIII. BLOCH, *Naturgeschichte der Ausländischen Fische*, III, 1788.

Gymnetrus Bloch, III, 1; type *GYMNETRUS HAWKENI* Bloch.

A synonym of *REGALECUS*.

XXXIV. BROWNE, *Civil and Natural History of Jamaica*, Second Edition, 1789.

PATRICK BROWNE, M. D.

Originally published in 1756, reprinted in 1789, with a table showing the Linnaean equivalents of species named, and perhaps other revisions. No changes have been noted in the systematic part. In the original edition of 1756, as in later editions, the author refers to the works of Artedi and Gronow, with both of whom he was familiar. His recognition of genus as a technical term and not as a mere Latin noun is unmistakable. Browne adopts various genera of Artedi (later accepted by Linnaeus), and to these he adds twelve new genera of his own. The species are

indicated by polynomial terms, to which are added the English vernacular names current in Jamaica.

The *History of Jamaica* is the ablest of all the works describing a local fish-fauna, prior to Linnæus, in quality comparable to the work of Osbeck, Hasselquist, and even of Forskål.

The revised republication of the work in 1789 may perhaps make the names of Browne eligible in nomenclature, if other authors rigidly correct as to generic names but polynomial as to species are to be considered. We have examined the original edition and the edition of 1789.

The names of Browne are perhaps not eligible as not binomial and as occurring in a slightly revised reprint of a pre-Linnæan work.

Following the precedent of Opinion 57, rejecting Hasselquist (*Iter Palestinum*), Browne's work would not be regarded as available.

Solenostomus Browne, 441; type "SOLENOTOMUS CORPORE TERETE SUBROTUNDO etc., the Trumpeter" = *FISTULARIA TABACCARIA* L.

This name, if eligible, antedates *SOLENOTOMUS* Klein and *SOLENOTOMUS* Lacépède. Monotypic.

Menidia Browne, 441; type "MENIDIA CORPORE PELLUCIDO, LINEA LATERALI LATIORI ARGENTEA" = *ATHERINA BROWNI* Gmelin, 1789.

This name, if accepted, replaces *ANCHOVIELLA* Fowler, besides rendering *MENIDIA* Bonaparte ineligible. Monotypic.

Amia Browne, 442; type "AMIA SUBARGENTEA LABRIS ÆQUALIBUS OSSICULUS BRANCHIOSTEGUS VIGINTIDUOBUS, the Tarpon" = *MEGALOPS ATLANTICUS* Cuv. & Val.

This name is equivalent to *TARPON* Jordan & Evermann. It is however preoccupied by *AMIA* Gronow and by *AMIA* L. Browne refers also to *AMIA*, a second species, "the Ten-pounder," which is *ELOPS SAURUS* L., type of the genus *ELOPS*.

Mormyra Browne, 445; type "MORMYRA MAJOR CÆRULEA ET AUREO VARIA, the larger Painted Parrot-fish" = *SCARUS VETULA* Bloch & Schneider.

The name *MORMYRA*, too close to *MORMYRUS* L., is subsequent to *CALLYODON* of Gronow, and to *SCARUS* Forskål. Three other species of Parrot-fish are placed by Browne in *MORMYRA*. Synonym of *CALLYODON*.

Plagusia Browne, 445; type "PLAGUSIA SUBCINEREA CAUDA ATTENUATA, the little Brown Sole with a pointed tail" = *PLEURONECTES PLAGUSIA* Bloch & Schneider, 1801 = *SYMPHURUS PLAGUSIA* Jordan & Evermann.

The name *PLAGUSIA* was adopted for this genus by Cuvier in 1829. It had however been earlier (1806) used by Latreille for a genus of Crustaceans.

Browne's name *PLAGUSIA*, if available, has priority over *SYMPHYRUS* Rafinesque, 1820, as well as over the numerous later names applied to this group, the best known of which are *APHORISTIA* Kaup and *AMMOPLEUROS* Günther. As there is a still earlier species, *PLAGUSIA PLAGIUSA* L., in this genus, the present species may perhaps stand as *PLAGUSIA ORNATA* Lacepède, "*PLAGIUSA*" being only a variant spelling of the same word.

Helops Browne, 445; type "*HELOPS NIGRESCENS VARIE NEBULATIM*, the Hog-fish of Catesby" = *LABRUS RUFUS* L.

If *HELOPS*, with this type, is accepted, it will eliminate the much confused generic name *BODIANUS* Bloch, based on the same type (*BODIANUS BODIANUS* Bloch = *LABRUS RUFUS* L.). *HARPE* Lacepède and *COSSYPHUS* Cuvier are later names for the same genus. The first species indicated by Browne under *HELOPS* is *LACHNOLAIMUS MAXIMUS* (Walbaum), the "*SUILLUS* or Great Hog-fish" of Catesby. This is "*HELOPS RUFESCENS IRIDE PARTIM RUBRA, PARTIM ALBIDA, MACULA NIGRA POST PINNIM DORSALEM*, the Hog-fish" of Browne. In the interest of nomenclature, it would be better to suppress *BODIANUS* rather than *LACHNOLAIMUS*, if *HELOPS* is found eligible.

Cromis Browne, 449; type "*CROMIS SUBARGENTEO OBLONGUS RADIUS ANTERIORIBUS DORSALIS ÆGRE PUNGENTIBUS*, the Drummer" = *LABRUS CROMIS* L. = *POGONIAS CHROMIS* of authors.

Browne cites four species of his genus *CROMIS*, the "Silver Shad" (*GERRES CINEREUS*), the Red-mouth Grunt (*HÆMULON PLUMIERI*), the Stone Bass (*DIAMTERUS BRASILIENSIS*), and the Drummer (*POGONIAS CROMIS*). As the last named became *LABRUS CROMIS* L., we may take it as the type of the genus *CROMIS* of Browne, if the latter is eligible. *CROMIS* would then, if accepted, replace *POGONIAS* Lacepède. *CHROMIS* Cuvier, 1815, a more correct spelling of the same word, would then give place to *HELIASES* Cuvier.

Macrocephalus Browne, 449; type "*MACROCEPHALUS ARGENTEA MAJOR LINEA LATERALIS RECTA NIGRA*, the Snook" = *SCIÆNA UNDECIMALIS* Bloch.

Monotypic. Equivalent to *CENTROPOMUS* Lacepède. Preoccupied by *MACROCEPHALUS* Swederus, 1787, a genus of Insects.

Pelmatia Browne, 449; type "*PELMATIA MAJOR SQUAMIS VIX PERSPICUUS*, the Mud-fish" = *GOMIOMORUS DORMITOR* Lacepède.

The name *PELMATIA*, if accepted, replaces *GOMIOMORUS*, which in turn has replaced the excellent name *PHILYPNUS* of Cuvier.

The first species named under *PELMATIA* by Browne is "*PELMATIA MINOR SQUAMIS MAJUSCULUS*, the Bullhead." This is *DORMITATOR MACULATUS* (Bloch). Browne gives a long and correct account of *PELMATIA*, and notes that his "second sort," the mud-fish, is "most esteemed and grows frequently to the length of 17 to 20 inches. It is the most delicate fish I have yet known, when in full perfection."

Thynnus Browne, 451; type "THYNNUS BONTII CORPORE CRASSIORI ET BREVIORE etc., The Boneeto" = *SCOMBER PELAMYS* L.

This use of the name THYNNUS is later than that of Fabricius, 1775, for a genus of Insects. It antedates THYNNUS of Cuvier and it is equivalent to THYNNUS of Lütken, a name later changed to EUTHYNNUS by its author. *SCOMBER PELAMYS* L., the Oceanic Bonito, is the Bonito of Cuba and Jamaica, where the Northern Bonito, *SARDA SARDA*, is unknown. Of the "Boneeto," Browne observes that it is "a dry coarse fish, not much esteemed, though a hearty wholesome food." Should stand as EUTHYNNUS Lütken. Monotypic.

Saurus Browne, 452; type "SAURUS ARGENTEUS CUTE LONGITUDINALIS etc., the Leather Coat" = *SCOMBER SAURUS* Bloch & Schneider = *OLIGOPLITES SAURUS* of authors.

Not SAURUS Cuv. & Val., which is *SYNODUS* Gronow. If Browne's names are accepted, SAURUS must replace *OLIGOPLITES* Gill, its type species standing as SAURUS SAURUS (Bloch & Schneider). Two other species of SAURUS are enumerated by Browne, the "Red-tailed Jack" and the "White-fish."

Teuthis Browne, 454; type "TEUTHIS FUSCA CÆRULEO NITENS, the Doctor (*TURDUS RHOMBOIDES* Catesby)" = *CHÆTODON CÆRULEUS* Bloch.

The first application of the name TEUTHIS (τεύθις, a squid) to a fish is that of Browne in 1756. Linnæus in 1766 accepted Browne's name TEUTHIS, and substituted it for Gronow's name HEPATUS, 1763. The republication of TEUTHIS in 1789 would help to fix the generic name TEUTHIS with Browne's original species. HEPATUS Gronow was primarily based on a specimen of the West Indian species called *CHÆTODON CHIRURGUS* by Bloch, with which *CHÆTODON CÆRULEUS* Bloch, the type of TEUTHIS, is strictly congeneric. The other species concerned, TEUTHIS JAVUS L., wrongly referred by Gronow to HEPATUS, should stand as *SIGANUS* Forskål. Cuvier and Valenciennes, according to Günther, were in error in referring Gronow's specimen, the type of TEUTHIS HEPATUS L., to an East Indian species, since called *COLOCOPUS LAMBURUS* Gill.

The four species entangled in the confusion superimposed upon Browne, should, as Gill has shown, stand as follows:

HEPATUS or TEUTHIS CÆRULEUS (Bloch & Schneider).

HEPATUS or TEUTHIS HEPATUS L.

COLOCOPUS LAMBURUS Gill.

SIGANUS JAVUS (L.).

Rhomboida Browne, 455; type "RHOMBOIDA ALEPIDOTA ARGENTEA PINNIS OMNIS BREVIBUS, the Silver-fish" = *VOMER BROWNI* Cuv. & Val., 1833.

The generic name RHOMBOIDA antedates that of *VOMER* Cuvier, and, if accepted, the type species would stand as RHOMBOIDA BROWNI (Cuv. & Val.) = *PLATYSOMUS SPIXI* Swainson, a species distinct from the northern *VOMER SETIPINNIS* (Mitchill).

Under Rhomboida, Browne mentions also "RHOMBOIDA MAJOR ALEPIDOTA, the Larger Silver-fish, with long fins (*ZEUS CAUDA BIFURCA* Artedi)." This must be

SELENE VOMER L. A third species is "RHOMBOIDA SQUAMOSA EX ARGENTEA, the Portuguese." This seems to be POMACANCHUS ARCUATUS L., the "Portugais" of the French Antillan fishermen.

XXXV. LINCK, *Magazin Neuestes aus der Physik und Naturgeschichte*,
Gotha, 1790.

H. F. LINCK.

This work we have not seen; we quote from Gill.

Mustelus Linck, 31; type SQUALUS MUSTELUS L. = MUSTELUS LÆVIS
of authors.

Equivalent to PLEURACROMYLON Gill, not quite the same as MUSTELUS Valmont.

Pristis Linck, 31; type SQUALUS PRISTIS L.

Unquestioned.

Rhinobatos Linck, 32; type not specified: RAJA RHINOBATOS L.

Equivalent to RHINOBATUS Klein.

Callichthys Linck, 32; type not specified: SILURUS CALLICHTHYS L.

Equivalent to CALLICHTHYS Gronow.

Alosa Linck, 35 (scarcely defined); type not specified: CLUPEA ALOSA
L. = ALOSA Cuvier.

Thymallus Linck, 35; type not specified: SALMO THYMALLUS L. =
THYMALLUS Cuvier.

Mola Linck, 37; type DIODON MOLA L.

Equivalent to MOLA Koelreuter and Cuvier.

Soarus Linck (misprint for SAURUS), 37; type not specified and un-
identifiable.

Barbatula Linck, 38; type COBITIS BARBATULA L.

Replaces OREIAS Sauvage; ORTHIRIAS Jordan & Fowler.

XXXVI. BLOCH, *Naturgeschichte der Ausländischen Fische*, IV, 1790.

MARK ELIESER BLOCH.

Bodianus Bloch, IV, 48; type BODIANUS BODIANUS Bloch, by tautonymy.

Replaces HARPE Lacepède. By first restriction, Cuvier and Gill, the type would be BODIANUS GUTTATUS Bloch, a species of ENNEACENTRUS Gill. Tautonymy has precedence in this case.

Lutianus Bloch, IV, 105; type LUTIANUS LUTIANUS Bloch.

Unquestioned. Also spelled LUTJANUS.

XXXVII. WHITE, *Journal of a Voyage to New South Wales*, 1790.

J. WHITE.

Enoplosus White, plate 39; type *CILÆTODON ARMATUS* White.

Lacepède quotes the name *ENOPLOSUS* from White. We have not seen this paper, and the name may have been first printed by Lacepède.

XXXVIII. VALMONT DE BOMARE, *Dictionnaire* etc., Edition IV, vol. VIII, 1791.

JEAN CHRISTOPHE VALMONT DE BOMARE.

Acus Valmont; type *ACUS ARISTOTELIS* Valmont = *SYNGNATHUS ACUS* L.

After Willughby. Same as *SYNGNATHUS* L.

XXXIX. SHAW, *Description of STYLEPHORUS CHORDATUS*, a new fish: Transactions of the Linnæan Society of London, I, 1791.

GEORGE SHAW.

Stylephorus Shaw, I, 90; type *STYLEPHORUS CHORDATUS* Shaw.
Monotypic.

XL. WALBAUM, *Artedi Piscium*, 1792.

JOHANN JULIUS WALBAUM.

Curimata Walbaum, 80; type *SALMO MARCGRAVII* Walbaum, based on "CHARAX MAXILLA SUPERIORE LONGIORE" Gronow, which is *SALMO CYPRINOIDES* L.

CURIMATA should replace *CURIMATUS* Cuvier for this genus.

XLI. BLOCH, *Naturgeschichte der Ansländischen Fische*, VI, VII, 1792, 1793.

MARK ELIESER BLOCH.

Anthias Bloch, VI, 97, 1792; type *LABRUS ANTHIAS* L. = *ANTHIAS SACER* Bloch.

Unquestioned. *AVLOPON* Rafinesque is a substitute name, *ANTHIAS* being said to be preoccupied. We do not find it so. *ANTHIA*, a genus of Beetles, dates from 1801.

Epinephelus Bloch, VII, 11, 1793; type *EPINEPHELUS MARGINALIS* Bloch = *PERCA FASCIATA* Forskål, by general consent.

The genus *EPINEPHELUS* was based on *E. AFER*, *E. MARGINALIS*, *E. MERRA*, and *E. RUBER*. *MARGINALIS* and *MERRA* are congeneric, and belong to the great group called *EPINEPHELUS* by Gill, Bleeker, and nearly all recent authors. Of these, *MARGINALIS* is typical. The species named first, *AFER*, has been on that account chosen as type by Fowler, 1907. This species was separated as the type of *ALPHISTES* by Bloch & Schneider, 1801. *RUBER* was named as type by Jordan & Gilbert, 1883. This species under another name (*ACUTIROSTRIS* Cuv. & Val.) became the type of *PARAPINEPHELUS* Bleeker, 1875. Justice and convenience are best served by retaining the name *EPINEPHELUS* for its chief components, as understood by nearly all authors. Otherwise the genus would stand as *CERNA* Bonaparte, 1837, unless, with Fowler, we recognize *EPINEPHELUS GIGAS* (*PERCA GIGAS*) L. as the type of *SERRANUS* Cuvier, 1817, a change we think unnecessary. If the subgenera of Forskål, with Arabic names, are recognized, *EPINEPHELUS* must give place to *DABA*.

Gymnocephalus Bloch, VII, 24, 1793; type *PERCA SCHRÆTZER* L., equivalent to *CERNUA* Schaefer, *ACERINA* Cuvier, and *CERNUA* Fleming.

Johnius Bloch, VII, 132, 1793; type *JOHNIUS CARUTTA* Bloch, as restricted by Gill.

Lonchiurus Bloch, VII, 143, 1793; type *LONCHIURUS BARBATUS* Bloch, 1793 = *PERCA LANCEOLATA* Bloch, 1788.

Monotypic. Corrected by later writers to *LONCHIURUS*.

Cataphractus Bloch, VII, 80, 1793; type *SILURUS CALLICHTHYS* L. as here restricted.

A synonym of *CALLICHTHYS*.

XLII. RÖSE, *Petri Artedi Angermannia-Succi Synonymia Nominum Piscium* etc. Greifswald. Edition II, 1793.

ANTON FERDINAND RÖSE.

This article, published as a supplement to Walbaum's *Artedi Piscium*, enumerates the generic names of Artedi and others, the species in their original polynomial form. In an Appendix are given a few new generic names, mostly taken from Aristotle. These genera are not described, nor are their species named, but the synonymy is fully given. Some of them had been already used by other authors. In our judgment, these names are eligible, and a few maintain priority of date.

Phycis Röse, 111; type *φυκίς* Aristotle, *PHYCIS TINCA* Bloch & Schneider. *GADUS BLENNIOIDES* Brünnich.

This is identical with *PHYCIS* Bloch & Schneider, 1801; the latter, but not the former, antedated by *PHYCIS* Fabricius, 1798, a genus of Insects. *PHYCIS* Rose replaces *EMPHYCUS* Jordan & Evermann, 1898.

Cicla Röse, 112; type "CICLA VIX PALMARIS" Röse, *κίχλη* Aristotle, a species of LABRUS, perhaps L. VIRIDIS L.

CICLA Klein is identical with that of Röse. Schneider, more correctly, wrote the word CICHLA, but applied it to a different group.

Sphyræna Röse, 112; type *σφύρα* Aristotle = ESOX SPHYRÆNA L.

This antedates SPHYRÆNA Bloch & Schneider, 1801, for the same genus.

Hepatus Röse, 113; type *ἥπατος* Aristotle, which is probably LABRUS HEPATUS L., the type of the genus PARACENTROPYSTIS Bleeker.

HEPATUS Gronow is wholly different.

Capriscus Röse, 114; type *καπρίσκος* Diphili, *κάπρος* Aristotle, which is probably BALISTES CAPRISCUS L.

A synonym of BALISTES L.

Tænia Röse, 114; type *τανία* Aristotle = CEPOLA TÆNIA L.

The genus is equivalent to CEPOLA L., and is preoccupied in Worms by TÆNIA L.

Pholis Röse, 116; type *φολῖς* Aristotle = BLENNIUS PHOLIS L.

Equivalent to PHOLIS Cuv. & Val., not of Scopoli, 1777.

Citharus Röse, 116; type *κιθάρος* Aristotle = PLEURONECTUS LINGUATULA L.

Equivalent to CITHARUS Bleeker, 1862, and EUCITHARUS Gill, 1888; not CITHARUS Reinhardt, 1838, which is HIPPOGLOSSOIDES.

Liparis Röse, 117; type "LIPARIS NOSTRAS Johnson" = CYCLOPTERUS LIPARIS L.

Equivalent to CYCLOGASTER Gronow and LIPARIS Scopoli.

Chelon Röse, 118; type *χάλλων* or *χέλων* Aristotle, CHELON of Gesner, which is probably MUGIL CHELO Cuv. & Val.

Probably equivalent to CHÆNOMUGIL Gill, but the European and American types need further comparison.

XLIII. LATHAM, *Essay on the various species of Saw-Fish*: Transactions of the Linnæan Society of London, 1794.

JOHN F. LATHAM.

Pristis Latham, II, 276; type SQUALUS PRISTIS L.

Same as PRISTIS Linck.

XLIV. VAHL, *Beskrivelse af en nye Fiskeslaegt*: Shrivt. Naturh. Selsk., Kjöbenhavn, III, 1794.

M. VAHL.

Cæcula Vahl, III, 2, 149; type CÆCULA PTERYGERA Vahl.

Monotypic.

XLV. BLOCH, *Naturgeschichte der Ausländischen Fische*, VIII, 1794;
IX, 1795.

MARK ELIESER BLOCH.

Platystacus Bloch, VIII, 52, 1794; type **PLATYSTACUS COTYLEPHORUS** Bloch, as usually restricted.

Ophicephalus Bloch, VIII, 137, 1794; type **OPHICEPHALUS PUNCTATUS** Bloch.

Unquestioned. Corrected by later writers to **OPHIOCEPHALUS**.

Sphagebranchus Bloch, IX, 88, 1795; type **SPHAGEBRANCHIUS ROSTRATUS** Bloch.

Monotypic.

Gymnothorax Bloch, IX, 83, 1795; type **GYMNOTHORAX MURÆNA** Bloch
= **MURÆNA HELENA** L.

A synonym of **MURÆNA** L. Günther, *Cat. Fish*, VIII, p. 100, 1870, restricts the names to allies of **MURÆNA AFRA** = **LYCODONTIS** McClelland, an arrangement apparently not defensible, as **GYMNOTHORAX** was plainly a substitute name for **MURÆNA**, and must retain the same type, **MURÆNA HELENA** L.

Synbranchus Bloch, IX, 86, 1795; type **SYMBRANCHIUS MARMORATUS** Bloch.

Name corrected by later writers to **SYMBRANCHIUS**.

Platycephalus Bloch, IX, 96, 1795; type **PLATYCEPHALUS SPATHULA** Bloch = **COTTUS INSIDIATOR** Forskål = **CALLIONYMUS INDICUS** L.

Unquestioned.

Gastrobranchus Bloch, XII, 51, 1797; type **GASTROBRANCHIUS CÆCUS** Bloch = **MYXINE GLUTINOSA** L.

A synonym of **MYXINE** L.

Acanthonotus Bloch, XII, 113, 1797; type **ACANTHONOTUS NASUS** Bloch, 1797 = **NOTACANTHIUS CHEMNITZI** Bloch, 1787.

A needless substitute name for **NOTACANTHIUS**.

XLVI. FABRICIUS, *Beskrivelse over to siældne Grönländske Fiske*:
Skrift. Naturhist. Selskab. Kjöbenhavn, 1793, II.

OTTO FABRICIUS.

Campylodon Fabricius, 12; type **CAMPYLODON** (FABRICII Reinhardt), 1838.

A synonym of **NOTACANTHIUS** Bloch. Mononomial and monotypic.

XLVII. VOLTA, *Ichthyolithologia Veronensis*, 1796.

SERAFINO VOLTA.

Blochius Volta, 53; type **BLOCHIUS LONGIROSTRIS** Volta (Family BLOCHIIDÆ, fossil).

XLVIII. LACEPÈDE, *sur le Polyodon feuille*: Bull. Sci. Soc. Philom., 1797.

BERNARD GERMAIN ÉTIENNE DE LA VILLE-SUR-ILLON COMTE DE LACEPÈDE.

The name of this author should be written Lacepède. Sherborne, *Index Animalium*, says: "A letter dated 1831 is signed 'b. g. é cte. de Lacepède.' This spelling and accentuation should be adhered to."

Polyodon Lacepède, 49; type **POLYODON FOLIUM** Lacepède.
Monotypic.

XLIX. CUVIER, *Tableau Élémentaire*, 1798.

GEORGES JEAN LEOPOLD NICOLAS FRÉDÉRIC CUVIER.

Mola Cuvier, 323; type **DIODON MOLA** L.

Equivalent to **MOLA** Kœlreuter. Prior to **ORTHAGORISCUS** Bloch & Schneider, 1801. Monotypic.

Murænophis Cuvier, 329; type **MURÆNA HELENA** L.

A synonym of **MURÆNA** L.

L. GEOFFROY SAINT HILAIRE, *Description d'un nouveau Genre de Poisson*: Bull. Soc. Sci. Philom., III, "An X de la République," 1798.

ÉTIENNE GEOFFROY SAINT HILAIRE.

Polypterus St. Hilaire, 97; type **POLYPTERUS BICHR** St. Hilaire.
Monotypic.

LI. RETZIUS, *Lampris, En ny Fiskslagt Beskriven*: Vet. Acad. Nya Handl., Stockholm, XX, 1799.

A. J. RETZIUS.

Lampris Retzius, 91; type **ZEUS GUTTATUS** Brünnich = **ZEUS REGIUS** Bonnaterre.

LII. SHAW, *Naturalist's Miscellany*, 1799.

GEORGE SHAW.

Trachichthys Shaw, 378; type *TRACHICHTHYS AUSTRALIS* Shaw.
Monotypic.

LIII. CUVIER, *Leçons d'Anatomie Comparée*, 1800.

GEORGES CUVIER.

Ovoides Cuvier, 1, tab. 1; type *OVOIDES FASCIATUS* Lacepède = *TETRODON STELLATUS*.

After "LES OVOIDES Lacepède," 1798. Replaces *AROTHEON* Müller.

LIV. LACEPÈDE, *Histoire Naturelle des Poissons*, *vol. I, 1798; II, 1800.

BERNARD GERMAIN ÉTIENNE DE LA VILLE-SUR-ILLON, COMTE DE
LACEPÈDE (here called "CITOYEN LA CEPÈDE").

The generic names in Volume I, 1798, and Volume II, 1800, to page 160, are nearly all given in French vernacular and are therefore ineligible. Scientific forms for most of these were supplied by Duméril, *Zoologie Analytique*, 1806, from which work the generic names in question must be dated.

Aodon Lacepède, I, 297, 1798; type *SQUALUS MASSASA* Forskål, as restricted by Jordan & Evermann.

A shark, perhaps imaginary, with no teeth and with long pectorals. The Latin name *AODON* is used, as well as the French "LES AODONS."

Ovoides (Lacepède), 521, "LES OVOIDES"; type "L'OVOIDE FASCÉ."

A front view of *TETRAODON STELLATUS* L. Equivalent to *OVOIDES* Cuvier.

Spheroides (Lacepède) Duméril (LES SPHÉROIDES), II, 22, 1800; type
LE SPHÉROIDE TUBERCULÉ Lacepède.

A front view of *TETRAODON SPENGLERI* Bloch. A synonym of *TETRAODON* as here understood.

* Of this work we have before us two reprints, neither with the original pagination. This, however, we are able to give, through the kindness of Mr. Henry W. Fowler of the Academy of Natural Sciences of Philadelphia, who has supplied us with a complete list of the genera and the pages on which they occur.

In the original edition the author styles himself "Citoyen La Cepède."

Macrorhynchus (Lacepède) Duméril (LES MACRORHYNQUES); type LE MACRORHINQUE ARGENTÉ Lacepède, SYNGNATHUS ARGENTUS Osbeck.

Probably replaces DICROTUS Günther.

Cæcilia Lacepède, II, 134, 1800 (LES CÆCILIES); type CÆCILIA BRANDERIANA Lacepède = MURÆNA CÆCA L.

Not CÆCILIA L., a genus of Amphibians. A synonym of SPHAGEBRANCHUS Bloch.

Monopterus (Lacepède), Duméril, II, 138, 1800 (LES MONOPTÈRES); type MONOPTERUS JAVANENSIS Lacepède.

Notopterus Lacepède, II, 189, 1800; type GYMNOTUS KAPERAT Bonnat-terre (GYMNOTUS NOTOPTERUS Pallas).

Ophisurus Lacepède, II, 195, 1800; type MURÆNA SERPENS L. as re-stricted by Risso, 1826.

Triurus Lacepède, II, 200, 1800; type TRIURUS BOUGAINVILLEI Lacepède, later called POMATIAS by Bloch & Schneider.

Unidentified. A deep-sea fish, apparently allied to AULOSTOMATOMORPHA Alcock, but without ventral fins.

Apterotonotus Lacepède, II, 208, 1800; type APTERONOTUS PASSAN Lacepède = GYMNOTUS ALBIFRONS L.

Must replace STERNARCHUS Bloch & Schneider.

Odontognathus Lacepède, 220, 1800; type ODONTOGNATHUS MURICATUS Lacepède.

Macrognathus Lacepède, II, 283, 1800; type OPHIDIUM ACULEATUM L.

Replaces RHYNCHOBDELLA Bloch & Schneider, with the same type. The name MACROGNATHUS was used by Gronow in 1754 (but not in 1763) to designate the group called BELONE Cuvier.

Comephorus Lacepède, II, 312, 1800; type CALLIONYMUS BAIKALENSIS Bonnat-terre.

Monotypic.

Rhombus Lacepède, II, 312, 1800; type STROMATEUS ALEPIDOTUS L.

Preoccupied, replaced by PEPRIUS Cuvier.

Murænoides Lacepède, II, 324, 1800; type BLENNIUS MURÆNOIDES Sujef (BLENNIUS GUNNELLUS L.).

Equivalent to PHOLIS Scopoli, 1777.

Calliomorus Lacepède, II, 343, 1800; type CALLIONYMUS INDICUS L.

Synonym of PLATYCEPHALUS Bloch.

Batrachoides Lacepède, II, 351, 1800; type **BATRACHOIDES TAU** Lacepède.

Not **GADUS TAU** L.

Because the body is said to be covered with scales, "molles, petites, minces, rondes, brunes, bordées de blanc et arrosées par une mucosité très abondantes," we cannot identify this genus with the naked **GADUS TAU** L., which is identical with the type of **ORSANUS** Rafinesque.

Oligopodus Lacepède, II, 511, 1800; type **CORYPHÆNA VELIFERA** Pallas.
Equivalent to **PTERACLIS** Gronow.

Hiatula Lacepède, II, 522, 1800; type **HIATULA GARDENIANA** Lacepède
= **LABRUS ONITIS** L. = **LABRUS HIATULA** L.

Not **HIATULA** Modeer, 1793, a genus of Mollusks. Gives way to **TAUTOGA** Cuvier.

Tænioides Lacepède, II, 532, 1800; type **TÆNIOIDES HERMANNIANUS** Lacepède.

Gobioides Lacepède, II, 576, 1800; type **GOBIOUS BROUSSONETI** Lacepède,
as restricted by Jordan & Evermann, 1898.

Gobiomorus Lacepède, II, 583, 1800; type **GOBIIOMORUS DORMITOR** Lacepède,
as restricted by Jordan.

Replaces **PHILYPNUS** Bloch & Schneider, 1801.

Gobiomoroides Lacepède, II, 592, 1800; type **GOBIIOMOROIDES PISON** Lacepède = **GOBIOUS PISONIS** L., a species of **ELEOTRIS** Gronow.

Monotypic.

Gobiesox Lacepède, II, 595, 1800; type **GOBIESOX CEPHALUS** Lacepède.
Monotypic.

LV. BLOCH & SCHNEIDER, *Systema Ichthyologia*, 1801.

MARK ELIESER BLOCH.

Edited and extended by JOHANN GOTTLÖB SCHNEIDER.

Batrachus Bloch & Schneider, 42; type **BATRACHIUS SURINAMENSIS** Schneider,
as restricted by Jordan & Evermann.

The name has been usually applied to the congeners of **GADUS TAU** L., not of Bloch, the group called **ORSANUS** by Rafinesque. But no ally of the scaleless **GADUS TAU** is placed in **BATRACHOIDES** by Lacepède or in **BATRACHIUS** by Schneider, only scaly species being known to either.

Enchelyopus Bloch & Schneider, 50; type, as first restricted, **GADUS CIMBRIUS** L. (**RHINONEMUS CIMBRIUS** Gill).

Not **ENCHELYOPUS** of Gronow, which is **ZOARCES** Cuvier, nor of Klein, which is **TRICHTIRUS**.

Phycis Bloch & Schneider, 56; type *BLENNIUS PHYCIS* L. (*PHYCIS TINCA* Bloch & Schneider).

Equivalent to *PHYCIS* Röse, 1793; not *PHYCIS* Fabricius, 1798, a genus of Butterflies.

Periophthalmus Bloch & Schneider, 63; type *PERIOPHTHALMUS PAPILIO* Bloch & Schneider.

Eleotris Bloch & Schneider, 65; type *ELEOTRIS* Gronow (*GOBIOUS PISONIS* Gmelin).

The name is borrowed from Gronow, whose *ELEOTRIS* is the *ELEOTRIS* of Cuvier and subsequent authors. But *ELEOTRIS PISONIS* is indicated by Schneider as "a species of doubtful relations, perhaps a *PERIOPHTHALMUS*." We let the current arrangement stand, though on shaky foundation, unless the names of Gronow are finally accepted. The genus *ELEOTRIS* of Bloch & Schneider represents an utter confusion of species, many of them not gobies at all.

Brama Bloch & Schneider, 98; type *SPARUS RAJI* Bloch.

Not *BRAMA* Klein, which is *ABRAMIS* Cuvier.

Monocentris Bloch & Schneider, 100; type *GASTEROSTEUS JAPONICUS* Houttuyn.

Monotypic.

Sphyræna Bloch & Schneider, 109; type *ESOX SPHYRÆNA* L.

Equivalent to *UMBLA* Catesby. Subsequent to *SPHYRÆNA* Röse.

Trichogaster Bloch & Schneider, 164; type *TRICHOGASTER FASCIATUS* Bloch & Schneider.

Centronotus Bloch & Schneider, 165; type *CENTRONOTUS FASCIATUS* Schneider.

A synonym of *PHOLIS* Scopoli.

Percis Bloch & Schneider, 179; type *PERCIS MACULATA* Schneider.

Not *PERCIS* Klein nor of Scopoli. Replaced by *PARAPERCIS* Bleeker. Monotypic.

Trichonotus Bloch & Schneider, 179; type *TRICHONOTUS SETIGER* Bloch & Schneider.

Monotypic.

Monoceros Bloch & Schneider, 180; type *MONOCEROS BIACULEATUS* Bloch & Schneider (*CHÆTODON UNICORNIS* Forskål).

Name preoccupied in Mollusks. Equivalent to *NASO* Lacepède.

Grammistes Bloch & Schneider, 182; type *PERCA SEXLINEATA* Thunberg.

A jumble of striped fishes, restricted by Cuvier to the *GRAMMISTES* of Seba, *G. SEXLINEATUS*.

Synanceja Bloch & Schneider, 194; type *SCORPÆNA HORRIDA* L.

By common consent. Commonly written *SYNANCEIA*.

Amphiprion Bloch & Schneider, 200; type *LUTJANUS EPIHIPPIUM* Bloch.

Amphacanthus Bloch & Schneider, 206; type *CHÆTODON GUTTATUS* Bloch.

Equivalent to *TEUTHIS* L. as restricted = *SIGANUS* Forskål.

Alphestes Bloch & Schneider, 236; type *ALPHISTES AFER* Bloch & Schneider.

Cephalopholis Bloch & Schneider, 311; type *CEPHALOPHOLIS ARGUS* Bloch & Schneider.

Monotypic. Replaces *ENNEACENTRUS* Gill.

Calliodon Bloch & Schneider, 312; type *CALLIODON LINEATUS* Bloch & Schneider (*SCARUS CROICENSIS* Bloch).

Equivalent to *CALLYDON* Gronow.

Cichla Bloch & Schneider, 336; type *CICHLA OCELLARIS* Bloch & Schneider as restricted by Heckel, 1840.

Name to be changed if *CICLA* Klein is eligible.

Rhina Bloch & Schneider, 353; type *RHINA ANCYLOSTOMUS* Bloch & Schneider.

Not of Klein; equivalent to *RIAMPHOBATIS* Gill.

Rhinobatus Bloch & Schneider, 353; type *RAJA RHINOBATUS* Forskål.

Equivalent to *RHINOBATOS* Linck.

Anableps Bloch & Schneider, 389; type *ANABLEPS TETROPIHTHALMUS* Bloch & Schneider (*COBITIS ANABLEPS* L.).

Equivalent to *ANABLEPS* Gronow and of Scopoli.

Synodus Bloch & Schneider, 396; type *ESOX SYNODUS* L.

Replaces *SAURUS* Cuvier.

Chauliodus Bloch & Schneider, 430; type *CHAULIODUS SLOANI* Schneider.

Albula Bloch & Schneider, 433; type *ALBULA CONORHYNCHUS* Schneider (*ESOX VULPES* L.). *ALBULA* Gronow.

Not *ALBULA* Osbeck. To stand as *BUTYRINUS* Lacepède, if Osbeck's names are accepted.

Pœcilia Bloch & Schneider, 453; type *PECILIA VIVIPARA* Bloch & Schneider.

By common consent.

Polyodon (Lacepède) Bloch & Schneider, 457; type "LE POLYDON FEUILLE" Lacepède, 1798 = *SQUALUS SPATHULA* Walbaum.

Rhynchobdella Bloch & Schneider, 479; type *RHYNCHOBDELLA ORIENTALIS* Bloch & Schneider = *OPHIDIUM ACULEATUM* Bloch.

As restricted by Cuvier. A synonym of *MACROGNATHUS* Lacepède, 1800.

Sternarchus Bloch & Schneider, 497; type *GYMNOTUS ALBIFRONS* L.

A synonym of *APTERONOTUS* Lacepède, 1800.

Orthogoriscus Bloch & Schneider, (misprinted ORTHRAGORISCUS), 510; type DIODON MOLA (Bloch).

Equivalent to MOLA Kœlreuter.

Bogmarus Bloch & Schneider, 518; type BOGMARUS ISLANDICUS Bloch & Schneider (GYMNOGASTER ARCTICUS Brünnich).

A synonym of TRACHIPTERUS Gouan. Monotypic.

Gymnonotus Bloch & Schneider, 521; type GYMNOTUS CARAPO L. (corrected spelling for GYMNOTUS).

Ovum Bloch & Schneider, 530; type OVUM COMMERSONI Bloch & Schneider = "L'OVOIDE FASCÉ, Lacepède, 1798.

Monotypic. Equivalent to OVOIDES Cuvier. OVUM Martin, 1764, is recorded by Sherborne as a "vernacular name only."

Typhlobranchus Bloch & Schneider, 537; type TYPHLOBRANCHUS SPURIUS Bloch & Schneider.

Monotypic, not identified. A river eel of Tropical America, without gill-openings. Doubtless a synonym of SYMBRANCHUS.

Gnathobolus Bloch & Schneider, 556; type ODONTOGNATHUS MUCRONATUS Lacepède.

Equivalent to ODONTOGNATHUS.

Pomatias Bloch & Schneider, 559; type TRIURUS BOUGAINVILLEI Lacepède.

Equivalent to TRIURUS.

Fluta Bloch & Schneider, 565; type MONOPTERUS JAVANENSIS Lacepède.

Equivalent to MONOPTERUS. Like the two preceding, a needless substitute name.

LVI. LACEPÈDE, *Histoire Naturelle des Poissons*, vol. III, 1802; IV and V, 1803.

BERNARD GERMAIN LACEPÈDE.

Scomberoides Lacepède, III, 50, 1802; type SCOMBEROIDES COMMERSONIANUS Lacepède (SCOMBER LYSAN Forskål).

Caranx Lacepède, III, 57, 1802; type SCOMBER CARANGUS Bloch = CARANX HIPPOS L., as restricted by Bleeker, the first reviser.

The generic name CARANX was taken by Lacepède from the manuscripts of Commerson, who first applied the name to SCOMBER SPECIOSUS Forskål. In revising the genus, Bleeker referred SPECIOSUS to a new genus, GNATHANODON. This view Dr. Gill accepted at first, but later selected SPECIOSUS as the type of CARANX, leaving some older name as TRICROPTERUS Rafinesque or CARANGUS Griffith for the bulk of the species of this extensive group. Later, by the process of elimination, CARANX RUBER was selected by Jordan as type of CARANX. On the whole it seems

most just, as it is certainly most convenient, to recognize the right of Bleeker as "first reviser." *CARANX CARANGUS* is congeneric with *C. RUBER*.

Trachinotus Lacepède, III, 78, 1802; type *SCOMBER FALCATUS* Forskål.

Caranxomorus Lacepède, III, 82, 1802; type *SCOMBER PELAGICUS* L.

Synonym of *CORYPHÆNA* L.

Cæsius Lacepède, III, 85, 1802; type *CÆSIO CÆRULEO-AUREUS* Lacepède.

Cæsiomorus Lacepède, III, 92, 1802; type *CÆSIOMORUS BAILLONI* Lacepède.

Genus probably valid; equivalent to *GLAUCUS* Klein.

Coris Lacepède, III, 96, 1802; type *CORIS AVGULA* Lacepède.

Gomphosus Lacepède, III, 100, 1802; type *GOMPHOSUS CÆRULEUS* Lacepède.

Naso Lacepède, III, 105, 1802; type *CHÆTODON FRONTICORNIS* L.

Adopted from Commerson ms. Commerson writes *NASEUS*, but the form *NASO* occurs first. Identical with *MONOCEROS* Bloch & Schneider, the latter preoccupied.

Kyphosus Lacepède, III, 114, 1802; type *KYPHIOSUS BIGIBBUS* Lacepède.

Osphronemus Lacepède, III, 116, 1802; type *OSPHRONEMUS GOURAMY* Lacepède.

Written *OSPHEMENUS* by Gunther.

Trichopodus Lacepède, III, 125, 1802; type *TRICHOPODUS MENTUM* Lacepède (*OSPHRONEMUS GOURAMY* Lacepède).

Monodactylus Lacepède, III, 131, 1802; type *MONODACTYLUS FALCIFORMIS* Lacepède.

Called *PSETTUS* by Commerson in ms. as quoted by Lacepède. Monotypic.

Plectorhinchus Lacepède, III, 134, 1802; type *PLECTORHINCHIUS CHÆTODONOIDES* Lacepède.

Monotypic. Replaces *DIAGRAMMA* Cuvier.

Pogonias Lacepède, III, 137; type *POGONIAS FASCIATUS* Lacepède = *LABRUS CROMIS* Lacepède.

Bostrychus Lacepède, III, 144, 1802; type *BOSTRYCHIUS SINENSIS* Lacepède.

Not *BOSTRICHUS* Geoffroy 1762, a genus of Insects. Replaced by *BOSTRICHITHUS* Duméril, 1866, by *PSILUS* Fischer, 1813, and by *ICTIOPOGON* Rafinesque, 1815.

Bostrychoides Lacepède, III, 144, 1802; type *BOSTRYCHOIDES OCULATUS* Lacepède.

Monotypic.

Hemipteronotus Lacepède, III, 214, 1802; type *HEMIPTERONOTUS QUINQUEMACULATUS* Lacepède (*CORYPHÆNA PENTADACTYLA* Gmelin).

Coryphænoides Lacepède, III, 219, 1802; type *CORYPHÆNOIDES HOUTTUYNII* Lacepède (*CORYPHÆNA JAPONICA* Houttuyn).

Not *CORYPHÆNOIDES* Gunner. Replaced by *BRANCHIOSTEGUS* Rafinesque, 1815, which is earlier than *LATILUS* Cuvier & Val., 1830.

Aspidophorus Lacepède, III, 221, 1802; type *ASPIDOPHORUS ARMATUS* Lacepède (*COTTUS CATAPHRACTUS* Lacepède).

Equivalent to *AGONUS* Bloch & Schneider.

Aspidophoroides Lacepède, III, 227, 1802; type *ASPIDOPHOROIDES TRANQUEBAR* Lacepède (*AGONUS MONOPTERYGIUS* Bloch & Schneider).

Scomberomorus Lacepède, III, 292, 1802; type *SCOMBEROMORUS PLUMIERI* Lacepède (*SCOMBER REGALIS* Bloch).

Centropodus Lacepède, III, 303, 1802; type *SCOMBER RHOMBEUS* Forskål.

A synonym of *MONODACTYLUS* Lacepède.

Centronotus Lacepède, III, 309, 1802; type *CENTRONOTUS CONDUCTOR* Lacepède (*GASTEROSTEUS DUCTOR* Lacepède).

Not *CENTRONOTUS* Bloch & Schneider, 1801 (*PHOLIS* Scopoli). Replaced by *NAUCRATES* Rafinesque.

Lepisacanthus Lacepède, III, 320, 1802; type *LEPISACANTHUS JAPONICUS* Lacepède (*GASTEROSTEUS JAPONICUS* L.).

Equivalent to *MONOCENTRIS* Bloch & Schneider, 1801. Monotypic.

Cephalacanthus Lacepède, III, 323, 1802; type *GASTEROSTEUS SPINARELLA* L.

The young of some species of *DACTYLOPTERUS*. Monotypic.

Dactylopterus Lacepède, III, 325, 1802; type *DACTYLOPTERUS PIRAPEDA* Lacepède (*TRIGLA VOLITANS* L.).

Equivalent to *CEPHALACANTHUS* Lacepède.

Prionotus Lacepède, III, 336, 1802; type *PRIONOTUS EVOLANS* Lacepède. Monotypic.

Peristedion Lacepède, III, 368, 1802; type *PERISTEDION MALARMAT* Lacepède (*TRIGLA CATAPHRACTA* L.).

Monotypic.

Istiophorus Lacepède, III, 374, 1802; type *SCOMBER GLADIUS* Broussonet.

Monotypic. Spelled *HISTIOPHORUS* by Cuvier.

Apogon Lacepède, III, 411, 1802; type *APOGON RUBER* Lacepède (*MULLUS IMBERBIS* L.).

Monotypic. Equivalent to *AMIA* Gronow.

Macropodus Lacepède, III, 416, 1802; type *MACROPODUS VIRIDIAURATUS* Lacepède.

Monotypic.

Cheilinus Lacepède, III, 529, 1802; type *CHEILINUS TRILOBATUS* Lacepède.

Monotypic.

Cheilodipterus Lacepède, III, 539, 1802; type *CHEILODIPTERUS LINEATUS* Lacepède = *CHEILODIPTERUS OCTOVITTATUS* Cuv. & Val., as restricted by Cuv. & Val.

Hologymnosus Lacepède, III, 556, 1802; type *HOLOGYMNOSUS FASCIATUS* Lacepède (*CORIS ANNULATUS* Lacepède, 1802).

Equivalent to *CORIS*.

Ostorhinchus Lacepède, IV, 23, 1803; type *OSTORHINCHUS FLEURIER* Lacepède.

Monotypic; subgenus of *APOGON*.

Dipterodon Lacepède, IV, 165, 1803; type *DIPTERODON HEXACANTHUS* Lacepède.

A species of *APOGON*, as restricted by Jordan & Evermann, *Fishes North Mid Amer.*, 1106. Not *DIPTERODON* Cuvier.

Centropomus Lacepède, IV, 248, 1803; type *SCLENA UNDECIMALIS* Bloch, by common consent, as restricted by Cuvier.

Originally a peculiarly confused jumble of species.

Tænianotus Lacepède, IV, 303, 1803; type *TÆNIONOTUS TRIACANTHUS* Lacepède, restricted by Cuv. & Val., *Hist. Poiss.*, IV, 371.

Micropterus Lacepède, IV, 324, 1803; type *MICROPTERUS DOLOMIEU* Lacepède.

Monotypic.

Harpe Lacepède, IV, 426, 1803; type *HARPE CERULEOAUREUS* Lacepède (*LABRUS RUFUS* L.).

A synonym of *BOBIANUS* Bloch and of *HELOPS* Browne.

Pimelepterus Lacepède, IV, 429, 1803; type *PIMELEPTERUS BOSCI* Lacepède.

Monotypic. A synonym of *KYPHOSUS* Lacepède.

Cheilio Lacepède, IV, 432, 1803; type *CHEILIO AURATUS* Lacepède (*LABRUS INERMIS* Forskål).

Pomatomus Lacepède, IV, 435, 1803; type *POMATOMUS SKII* Lacepède (*PERCA SALTATRIX* L.).

Monotypic. The name afterwards improperly transferred by Cuvier to a genus of *APOGONIDÆ*, *EPICONUS* Rafinesque.

Leiostomus Lacepède, IV, 438, 1803; type *LEIOSTOMUS XANTHURUS* Lacepède.

Monotypic.

Centrolophus Lacepède, IV, 441; type *PERCA NIGRA* L.

Leiognathus Lacepède, IV, 448; type *LEIOGNATHIUS ARGENTEUS* Lacepède (*SCOMBER EDENTULUS* Bloch).

Monotypic. Prior to *EQUULA* Cuvier.

Acanthinion Lacepède, IV, 499, 1803; type *CHÆTODON RHOMBOIDES* L.
Equivalent to *TRACHINOTUS*.

Chætodipterus Lacepède, IV, 503; type *CHÆTODIPTERUS PLUMIERI* Lacepède (*ZEUS FABER* Gmelin).

Monotypic.

Pomacentrus Lacepède, IV, 505, 1803; type *CHÆTODON PAVO* Bloch.

By general consent.

Pomadasys Lacepède, IV, 515, 1803; type *SCIÆNA ARGENTEA* Forskål.

Monotypic. Prior to *PRISTIPOMA* Cuvier.

Pomacanthus Lacepède, IV, 517, 1803; type *CHÆTODON ARCUATUS* L.,
as restricted by Cuvier.

Holacanthus Lacepède, IV, 525, 1803; type *CHÆTODON TRICOLOR* L., as
restricted by Cuvier.

Enoplosus (White) Lacepède, IV, 540, 1803; type *CHÆTODON ARMATUS*
White.

Monotypic.

Glyphisodon Lacepède, IV, 542, 1803; type *GLYPHISODON MOUCHARRA*
Lacepède (*CHÆTODON SAXATILIS* L.).

Equivalent to *ABUDEFDUF* Forskål. Usually written *GLYPHIDODON*.

Aspisurus Lacepède, IV, 556, 1803; type *CILÆTODON SOHAR* Forskål.

Monotypic. Equivalent to *ACANTHURUS* Forskål, *TEUTHIS* L.

Acanthopodus Lacepède, IV, 558, 1803; type *ACANTHOPODUS ARGENTEUS* Lacepède (*MONODACTYLUS FALCIFORMIS* Lacepède).

A synonym of *MONODACTYLUS*.

Selene Lacepède, IV, 560, 1803; type *SELENE ARGENTEA* Lacepède
(*ZEUS VOMER* Cuvier).

Argyreiosus Lacepède, IV, 566, 1803; type *ZEUS VOMER* L.

Monotypic. A synonym of *SELENE*.

Gallus Lacepède, IV, 583, 1803; type *GALLUS VIRESCENS* Lacepède
(*ZEUS GALLUS* L.).

Monotypic. Not *GALLUS* L., a genus of hens. Replaced by *ALECTIS* Rafinesque and *GALLICHTHYS* Cuvier.

Chrysotosus Lacepède, IV, 586, 1803; type ZEUS LUNA Gmelin.

A synonym of LAMPRIS. Monotypic.

Capros Lacepède, IV, 590, 1803; type ZEUS APER L.

Monotypic.

Achirus Lacepède, IV, 658, 1803; type PLEURONECTES ACHIRUS L.

As fixed by Jordan & Gilbert, 1883. ACHIRUS FASCIATUS Lacepède was wrongly supposed to be identical with PLEURONECTES ACHIRUS L.

Makaira Lacepède, IV, 688, 1803; type MAKAIRA NIGRICANS Lacepède.

Monotypic. A synonym of ISTIOPHORUS.

Cirrhitus Lacepède, V, 2, 1803; type CIRRHITUS MACULATUS Lacepède.

Monotypic. Written CIRRHITES by Cuvier.

Cheilodactylus Lacepède, V, 5, 1803; type CHEILODACTYLUS FASCIATUS Lacepède.

Monotypic.

Misgurnus Lacepède, V, 16, 1803; type COBITIS FOSSILIS L.

Monotypic.

Fundulus Lacepède, V, 37, 1803; type FUNDULUS MUDFISH Lacepède (COBITIS HETEROCLITA Gmelin).

Colubrina Lacepède, V, 40, 1803; type COLUBRINA CHINENSIS Lacepède.

An unidentified Chinese painting, probably fictitious.

Butyrinus Lacepède, V, 45, 1803; type BUTYRINUS BANANA Lacepède (ESOX VULPES L.).

Equivalent to ALBULA of Gronow and of Schneider, not ALBULA Osbeck. Should apparently replace ALBULA Gronow.

Tripteronotus Lacepède, V, 47, 1803; type TRIPTERONOTUS HAUTIN Lacepède (SALMO LAVARETUS L.).

Mutilated example. Equivalent to COREGONUS L.

Ompok Lacepède, V, 49, 1803; type OMPOK SILUROIDES Lacepède.

Replaces CALLICHRUS Hamilton.

Macropteronotus Lacepède, V, 84, 1803; type MACROPTERONOTUS CHARMUTHI Lacepède (SILURUS ANGUILLARIS L.).

Identical with CLARIAS Gronow.

Malapterurus Lacepède, V, 90, 1803; type SILURUS ELECTRICUS L.

Monotypic. A synonym of TORPEDO Forskål.

Pimelodus Lacepède, V, 93, 1803; type PIMELODUS MACULATUS Lacepède.

As restricted by Cuvier, Gill and authors.

Doras Lacepède, V, 116, 1803; type SILURUS CARINATUS L.

Pogonathus Lacepède, V, 120, 1803; type POGONATHUS COURBINA Lacepède.

Identical with POGONIAS Lacepède, 1802.

Plotosus Lacepède, V, 129, 1803; type *PLATYSTACUS ANGUILLARIS* Bloch (*SILURUS ANGUILLARIS* Forskål).

Ageneiosus Lacepède, V, 132, 1803; type *AGENEIOSUS ARMATUS* Lacepède (*SILURUS MILITARIS* L.).

Macrorhamphosus Lacepède, V, 136, 1803; type *SILURUS CORNUTUS* L.
Equivalent to *CENTRISCUS* Cuvier, not of Linnæus.

Centranodon Lacepède, V, 138, 1803; type *CENTRANODON JAPONICUS* Lacepède (*SILURUS IMBERBIS* Houttuyn) = *CALLIONYMUS INDICUS* L.

Monotypic and unidentifiable, perhaps based on rough notes of *PLATYCEPHALUS*.

Hypostomus Lacepède, V, 144, 1803; type *HYPOSTOMUS GUACARI* Lacepède (*LORICARIA PLECOSTOMUS* L.).

Monotypic. Identical with *PLECOSTOMUS* Gronow.

Corydoras Lacepède, V, 147, 1803; type *CORYDORAS GEOFFROY* Lacepède (*CATAPHRACTUS PUNCTATUS* Bloch).

Tachysurus Lacepède, V, 150, 1803; type *TACHYSURUS SINENSIS* Lacepède.

A Chinese picture of some species of *ARIUS* Cuvier, which name it replaces, if identifiable.

Osmerus Lacepède, V, 229, 1803; type *SALMO EPERLANUS* L.

Equivalent to *OSMERI* L.

Coregonus Lacepède, V, 239, 1803; type *SALMO LAVARETUS* L.

Equivalent to *COREGONI* L.

Characinus Lacepède, V, 269, 1803; type *SALMO GIBBOSUS* L.

Equivalent to *CHARACINI* L. and to *CHARAX* Gronow, Scopoli.

Serrasalmus Lacepède, V, 283, 1803; type *SALMO RHOMBEUS* L.

Monotypic. Written *SERRASALMO* by Cuvier.

Megalops Lacepède, V, 289, 1803; type *MEGALOPS FILAMENTOSUS* Lacepède.

Monotypic.

Lepisosteus Lacepède, V, 331, 1803; type *LEPISOSTEUS GAVIALIS* Lacepède (*ESOX OSSEUS* L.).

Usually written *LEPIDOSTEUS*.

Scomberesox Lacepède, V, 344, 1803; type *SCOMBERESOX CAMPERI* Lacepède (*ESOX SAURUS* Walbaum).

Monotypic.

Aulostomus Lacepède, V, 356, 1803; type *AULOSTOMUS CHINENSIS* Lacepède (*FISTULARIA CHINENSIS* L.).

Monotypic. Usually written *AULOSTOMA*.

Solenostomus Lacepède, V, 360, 1803; type *FISTULARIA PARADOXA* Pallas.

Monotypic. Not *SOLENOSTOMUS* Gronow nor of Klein.

Hydrargira Lacepède, V, 378, 1803; type *HYDRARGIRA SWAMPINA* Lacepède (*FUNDULUS MAJALIS* Walbaum).

Usually written *HYDRARGYRA*. Monotypic. Not separable from *FUNDULUS*.

Stolephorus Lacepède, V, 381, 1803; type *ATHERINA JAPONICA* Houttuyn (*SPRATTELLOIDES ARGYROTAENIA* Bleeker).

Restriction of Jordan & Evermann, 1896.

The first species named by Lacepède, *ATHERINA JAPONICA* Houttuyn, was unknown to him, and very scantily and incorrectly described by its discoverer. Several authors—Bleeker, Jordan & Evermann—have assumed this species to be the type, and that it was congeneric with the second species named, from which Lacepède drew up his generic description and of which he gave a figure.

Study of the fauna of Nagasaki shows that no species of the modern genus *STOLEPHORUS* has been yet found there and that the *ATHERINA JAPONICA* of Houttuyn is most likely a description from rough notes or from memory of *SPRATTELLOIDES ARGYROTAENIA* Bleeker. *ATHERINA JAPONICA* was the first species to be formally named as type of *STOLEPHORUS*. It would have been more convenient to assume the one species known to Lacepède to be his type, reverting to the system of Bleeker, who first acted on this supposition but who named no type formally. In that case *STOLEPHORUS* would become the equivalent of *ANCHIOVELLA* Fowler, 1911. *MENIDIA* Browne, if available, would replace both. But it is necessary here as elsewhere to recognize the first formally stated type. If this is regarded as identifiable *STOLEPHORUS* replaces *SPRATTELLOIDES*.

Mugiloides Lacepède, V, 393, 1803; type *MUGILOIDES CHILENSIS* Lacepède (*ESOX CHILENSIS* Molina).

Replaces *PINGUIPES* Cuv. & Val.

Chanos Lacepède, V, 395, 1803; type *CHANOS ARABICUS* Lacepède (*MUGIL CHANOS* L.).

Monotypic.

Mugilomorus Lacepède, V, 397, 1803; type *MUGILOMORUS ANNA-CAROLINA* Lacepède (*ELOS SAURUS* L.).

Synonym of *ELOS* L.

Polydactylus Lacepède, V, 419, 1803; type *POLYDACTYLUS PLUMIERI* Lacepède (*POLYNEMUS VIRGINICUS* L.).

As understood by us at present, a synonym of *POLYNEMUS* L.

Buro (Commerson) Lacepède, V, 421, 1803; type *BURO BRUNNEUS* Lacepède (*TEUTHIS HEXAGONATUS* Bleeker).

Monotypic. Same as *SIGANUS*.

Mystus Lacepède, V, 466, 1803; type *MYSTUS CLUPEOIDES* Lacepède (*CLUPEA MYSTUS* L.), a species of *COILIA* Gray.

The name *MYSTUS* is preoccupied.

Clupanodon Lacepède, V, 468, 1803; type *CLUPEA THRIS* L.

As restricted by Rafinesque, 1815, through substitution for *CLUPANODON* the more euphonious name of *THRIS*. The name *CLUPANODON* has been variously treated. It should properly replace *KONOSIRUS* Jordan & Snyder, although Lacepède's account of "*CLUPANODON THRIS*" is taken mainly from the West Indian "Caillieu-Tassart," *OPHISTHONEMA OGLINUM* (Le Sueur), the *CLUPEA THRIS* of Broussonet, but not of Linnæus.

Mene Lacepède, V, 479, 1803; type *MENE ANNA-CAROLINA* Lacepède (*ZEUS MACULATUS* Bloch), *MENE MACULATA* of authors.

Monotypic.

Dorsuarius Lacepède, V, 482, 1803; type *DORSUARIUS NIGRESCENS* Lacepède.

A species of *KYPHOSUS* Lacepède. Monotypic.

Xyster Lacepède, V, 484, 1803; type *XYSTER FUSCUS* Lacepède.

Equivalent to *KYPHOSUS*. Monotypic.

Cyprinodon Lacepède, V, 486, 1803; type *CYPRINODON VARIEGATUS* Lacepède.

Monotypic.

Murænophis Lacepède, V, 627, 1803; type *MURÆNA HELENA* Lacepède.

Equivalent to *MURÆNA* L.

Gymnomuræna Lacepède, V, 648, 1803; type *GYMNOMURÆNA DOLIATA* Lacepède.

As first restricted by Kaup, 1856. Bleeker and Günther have used *G. MARMORATA* Lacepède as type, thus replacing *UROPTERYGIUS* Rüppell. A synonym of *ECHIDNA*.

Murænoblenna Lacepède, V, 652, 1803; type *MURÆNOBLENNA OLIVACEA* Lacepède.

A synonym of *MYXINE* L. Monotypic.

Unibranchapertura Lacepède, V, 656, 1803; type *SYMBRANCHUS MARMORATUS* Bloch.

A synonym of *SYMBRANCHUS*.

LVII. SEWASTIANOFF, *Acarauna, Piscium Thoracices*, 1796 (1802).

Acarauna Sewastianoff, 357; type *ACARAUNA LONGIROSTRIS* Sewastianoff (*GOMPHOSUS CÆRULEUS* Lacepède).

Equivalent to *GOMPHOSUS* Lacepède, and apparently of later date. Not seen by us.

LVIII. COMMERSON, *Lacépède, Histoire Naturelle des Poissons*, II, 1798; III, 1800; IV, V, 1803.

PHILIBERT COMMERSON.

Commerson was an active and accurate naturalist-explorer who collected mainly in the South Seas. His specimens were accompanied by manuscript names, polynomial in form. The author had a full grasp of the meaning of "genus," as he spoke sometimes of a "genus novissimum," *Xyster*, for example. Many of his generic names were adopted by Lacépède and have found their way into the system. The others are here enumerated. These have been formally accepted as eligible by the International Commission (Opinions 23 and 24 as to *Antennarius* and *Aspro*). We think that this decision might well be reconsidered as Commerson was not "binomial" and his names were not adopted by the author who first printed them as synonyms.

The names of Commerson may be ineligible as not binomial as to species and not accepted by the author who published them. Accepted provisionally by the International Commission.

Antennarius Commerson, I, 327, 1798, footnote; type *ANTENNARIUS BIVERTEX TOTUS ATER PUNCTO MEDIORUM, LATERUM ALBO* Commerson (in foot-note) = *LOPIIUS COMMERSONIANUS* Lacépède.

Equivalent to *CHIRONECTES* Cuvier and *ANTENNARIUS* Cuvier. Regarded as eligible, in Opinion 24, International Commission.

Alticus Commerson, II, 458, 1800, footnote under *BLENNIUS*; type *ALTICUS SALTATORIUS PINNA SPURIA IN CAPITE VERTICE, BLENNIUS SALIENS* Lacépède.

Accepted by Jordan & Seale, *Fishes Samoa*, 421, 1806. Equivalent to *RUPISCARTES* Swainson. Cuv. & Val., XI, 337, 1836, adopted the name *SALARIAS ALTICUS* for the *BLENNIUS SALIENS*, "un petit *SALARIAS* qui nous paraît être celui-là même pour lequel Commerson a établi son genre, *ALTICUS*."

Sciænus Commerson, III, footnote under *CARANXOMORUS*; type *SCIÆNUS EX FUSCO CÆRULESCENS: CARANXOMORUS SACRESTINUS* Lacépède, *LABRUS FURCATUS* Lacépède.

Identical with *APHAREUS* Cuv. & Val., the name apparently a variant of *SCIÆNA*. Apparently ineligible.

Naseus Commerson, III, 105, under *NASO*; type *NASEUS FRONTICORNIS FUSCUS* Commerson (*CHÆTODON FRONTICORNIS* L.).

Equivalent to *NASO* Lacépède, *NASEUS* Cuv. & Val.

Coryphus Commerson, III, 1802, footnote under CORYPHÆNA; type CORYPHUS CHRYSURUS UNDIQUE DEAURATUS etc. Commerson, CORYPHÆNA CHRYSURUS Lacepède, CORYPHÆNA HIPPIURUS L.

Same as CORYPHÆNA.

Elops Commerson, III, 100, 1802, footnote under GOMPHOSUS; type GOMPHOSUS TRICOLOR Lacepède.

Equivalent to ACARAUNA Sewastianoff or to GOMPHOSUS Lacepède.

Psettus Commerson, III, 1802, footnote under MONODACTYLUS; type PSETTUS SPINIS PINNARUM VENTRALIUM LOCO DUABUS Commerson (MONODACTYLUS FALCIFORMIS Lacepède).

Revived by Cuvier & Valenciennes. A synonym of MONODACTYLUS Lacepède. Not PSETTUS Klein.

Odax Commerson, III, 1802, footnote under SCARUS; type ODAX ODON Commerson = SCARUS CHADRI Lacepède = SCARUS NIGER Forskål.

Monotypic. Equivalent to CALLYODON Gronow. If the names of Commerson are accepted, ODAX Cuvier requires a new name.

Mylio Commerson, III, 131, 1802, footnote under SPARUS; type MYLIO LINEIS LONGITUDINALIBUS PLURIBUS Commerson Ms. = SPARUS MYLIO Lacepède = CHÆTODON BIFASCIATUS Bloch.

Equivalent to SPARUS L.

Aspro Commerson, IV, 273, 1803, footnote; type ASPRO DORSO DIPTERYGIO DENTIBUS RARIS, ET LONGIS ET EXSERTIS etc. Commerson Ms. = CHEILODIPTERUS MACRODON Lacepède, as restricted by Jordan, Opinion 23, *Zoological Nomenclature*, 56, 1910.

A synonym of CHEILODIPTERUS as now restricted. Not ASPRO Cuvier.

Opisotomus Commerson, IV, 1803, footnote.

We have been unable to find this name.

Zanclus Commerson, V, 1803, footnote under CHÆTODON (misprinted ZANCHUS); type ZANCLUS TRANSVERSE FASCIATUS Commerson Ms. = CHÆTODON CORNUTUS Bloch.

Monotypic. Revived by Cuvier & Valenciennes, VII, 102, 1831.

Oculeus Commerson, V, 289, 1803, footnote under MEGALOPS; type OCULEUS SEU MEGALOPS POSTREMO PINNÆ etc. Commerson (MEGALOPS CYPRINOIDES Lacepède).

Equivalent to MEGALOPS.

Aulus Commerson, V, 1803, footnote under FISTULARIA; type AULUS UROGNOMON etc., FISTULARIA TABACARIA L.

Equivalent to FISTULARIA.

Encrasicholus Commerson, V, 382, 1803, footnote under **CLUPEA**; type **ENCRASICHOLUS MANDIBULA INFERIORE BREVIORE, TÆNIA LATERALI ARGENTEA** Commerson (**CLUPEA VITTARGENTEA** Lacepède).

Equivalent to **ANCHOVIELLA** Fowler (**MENIDIA** Browne).

Ptericht^{us} Commerson, V, 401, 1803, footnote under **EXOCÆTUS**; type "PTERICHTIUS PINNIS PECTORALIBUS RADIORUM SEXDECIM VENTRALIBUS INTRA CORPORIS ÆQUILIBRIUM NEQUIDEM AD ANUM APICE PERTINGENTIBUS."

As indicated by Lacepède, this species, the one placed first by Commerson, seems to be **EXOCÆTUS VOLITANS** L. A synonym of **EXOCÆTUS**.

Halex Commerson, V, 462, 1803, footnote under **CLUPEA**; type **HALEX CORPORE LATE CATHETEPLATEO** etc. Commerson, **CLUPEA FASCIATA** Lacepède, a species of **LEIOGNATHUS** Lacepède.

LIX. PLUMIER, *Lacepède, Histoire Naturelle des Poissons*, II, 1798: III, 1800; IV, V, 1803.

CHARLES PLUMIER.

Le Père Plumier, a missionary in Martinique, sent to Lacepède numerous paintings of fishes with descriptions and manuscript names. The generic names used rest on exactly the same basis as those of Commerson. As they were polynomial and as they were not accepted by the author who published them in synonymy, we think that they should not be considered eligible in scientific nomenclature, a matter which awaits final decision.

The names probably not acceptable, as polynomial and as not adopted by the author who printed them.

Orbis Plumier, II, 504, 1800, in footnote under **TETRAODON**; type **ORBIS MINIMUS** Plumier = **TETRAODON PLUMIERI** Lacepède = **TETRAODON SPENGLERI** Bloch.

A synonym of **TETRAODON**.

Monoceros Plumier, II, 1800, in footnote under **BALISTES**; type **MONOCEROS PISCIS CLUSII** Plumier.

Probably same as **MONACANTHUS CILIATUS** L. Equivalent to **MONOCANTHUS** Cuvier. Not **MONOCEROS** Zimmermann, 1780, a genus of Gasteropods; not **MONOCEROS** Bloch & Schneider, 1801.

Asellus Plumier, III, 1802, footnote under **GOMIOMORUS**; type **ASELLUS PALUSTRIS** Plumier (**PLATYCEPHALUS DORMITATOR** Bloch & Schneider).

Identical with **GOMIOMORUS** Lacepède, as restricted **PHILYPNUS** Cuvier.

Pelamis Plumier, III, 1802, footnote under SCOMBEROIDES; type PELAMIS MINIMA, VULGO SAUTEUR Plumier (SCOMBER SALIENS Bloch).

Identical with OLIGOPLITES Gill. Not PELAMYS Klein.

Trachurus Plumier, III, 1802, footnote under CARANXOMORUS; type TRACHURUS MAXIMUS SQUAMIS MINUTISSIMIS Plumier = CARANXOMORUS PLUMIERIANUS Lacepède = SCOMBER TRACHURUS L.

As here restricted, the same as TRACHURUS Rafinesque, 1810.

Scorpius Plumier, III, 1802, footnote under SCORPÆNA; type SCORPIUS NIGER CORNUTUS Plumier (SCORPÆNA PLUMIERI Lacepède).

The name may be available for the subgenus of SCORPÆNA, having the breast scaly (PARASCORPÆNA Bleeker). In the European type of SCORPÆNA, SCORPÆNA PORCUS L., the breast is scaleless.

Sarda Plumier, III, 141, 1802, footnote under SPARUS; type SARDA CAUDA AUREA ET LUNATA Plumier (SPARUS CHRYSURUS Bloch).

Equivalent to OCYURUS Gill. Not SARDA Cuvier, which requires a new name if the generic names of Plumier are accepted. Monotypic.

Erythrinus (ERITRINUS) Plumier, IV, 347; type ERYTHRINUS POLYGRAMMOS, MARIGNAN APUD CARAIBAS Plumier (HONOCENTRUS SOGO Bloch).

A synonym of HOLOCENTRUS; name preoccupied. Elsewhere written ERITRINUS.

Chrysomelanus Plumier, IV, 160, 1803, footnote under SPARUS; type CHRYSOMELANUS PISCIS Plumier, SPARUS CHRYSOMELANUS Lacepède, ANTHIAS STRIATUS Bloch.

A synonym of EPINEPHELUS.

Aper Plumier, IV, 1803, footnote under SPARUS; type APER SEU TURDUS ERYTHRINUS, SQUAMIS AMPLIS Plumier (SPARUS ABILDGAARDI Lacepède).

A synonym of CALLYODON Gronow. Name preoccupied.

Guaperva Plumier, IV, footnote under SELENE; type GUAPERVA MARCGRAVII, VULGO LA LUNE Plumier (SELENE ARGENTEA Lacepède).

Identical with SELENE.

Sargus Plumier, IV, 166, footnote under DIPTERODON; type SARGUS EX AURO VIRGATUS Plumier (DIPTERODON PLUMIERI Lacepède = SPARUS SYNAGRIS L.

Same as NEOMÆNIS Girard. Not SARGUS Klein nor Cuvier. Not SARGUS Fabricius, about 1798, a genus of flies.

Pagrus Plumier, IV, 1803, footnote under BODIANUS; type PAGRUS LEUCOPHÆUS VULGO VIVANET GRIS APUD MARTINICAM Plumier = BODIANUS VIVANET Lacepède = LUTIANUS GRISEUS (L.).

Not PAGRUS Cuvier, 1817. Equivalent to NEOMÆNIS Girard; same as SALPA Catesby.

Chromis Plumier, III, 546, 1803, footnote under CHEILODIPTERUS; type CHROMIS SEU TEMBRA AUREO-CÆRULEA LITTURIS FUSCA VARIEGATA Plumier (CHEILODIPTERUS CYANOPTERUS Lacepède), the "grygry" or "grogro" of Martinique, UMBRINA COROIDES Cuv. & Val.

The name is older than UMBRINA, but later than CROMIS Browne. The specific name UMBRINA CYANOPTERUS (Lacepède), based on Plumier's figure, must replace COROIDES and BROUSSONETI for this species.

Cheloniger Plumier, IV, 542, 1803, footnote under CHEILODIPTERUS; type CHELONIGER EX AURO ET ARGENTEO VIRGATUS Plumier (CHEILODIPTERUS CHRYSOPTERUS Lac. (PERCA NOBILIS L.).

The name CHELONIGER, if eligible, has priority over CONODON Cuvier.

Cephalus Plumier, V, 1803; type CEPHALUS AMERICANUS VULGO ATOULRI Plumier (MUGIL CEPHALUS L.).

A synonym of MUGIL L.

Trichis Plumier, V, 1803, footnote under CLUPEA ALOSA; type "TRICHIS BELLONII LA PUCELLE" Plumier.

Doubtful, but wrongly identified by Lacepède with CLUPEA ALOSA L.

Acus Plumier, V, 1803, footnote under SPHYRÆNA; type ACUS AMERICANA, ROSTRI LONGIORI Plumier (SPHYRÆNA ACUS Lacepède).

Same as SPHYRÆNA Röse, 1793.

LX. SHAW, *General Zoology, or Systematic Natural History*, vol. IV, 1803; vol. V, 1804.

GEORGE SHAW.

Anguilla Shaw, IV, 15, 1803; type ANGUILLA VULGARIS Shaw (MURÆNA ANGUILLA L.).

The name ANGUILLA has been ascribed to Thunberg, but we find no notice of its use as a generic term prior to Shaw.

Vandellius Shaw, IV, 199, 1803.

Needless substitute for LEPIDOPUS Gouan.

Trichopus Shaw, IV, 392, 1803; type TRICHOPUS PALLASI Shaw (LABRUS TRICHOPTERUS Pallas).

Equivalent to OSPHIRONEMUS Lacepède.

Cephalus Shaw, V, 432, 1804; type DIODON MOLA L.

Equivalent to MOLA Cuvier. Not CEPHALUS Plumier.

Trachichthys Shaw, IV, 630, 1803; type TRACHICHTHYS AUSTRALIS Shaw.

Spatularia Shaw, V, 362, 1804; type SPATULARIA RETICULATA (SQUALUS SPATHULA Walbaum).

Synonym of POLYODON Lacepède.

LXI. HERRMANN, *Observationes Zoologicae*, 1804.

JOHANN HERRMANN.

Notistium Herrmann, 305, 1804; type NOTISTIUM GLADIUS Herrmann.

Equivalent to ISTIOPHORUS Lacepède.

LXII. GIORNA, *Mémoire Sur des Poissons d'Espèces Nouvelles et de genres nouveaux*: Mémoires de l'Académie Impériale de Torino, XVI, 1803-1808.

MICHEL ESPRIT GIORNA.

Lophotes Giorna, 19, 1805; type LOPHOTES CEPEDIANUS Giorna.

Cælorhynchus Giorna, 18, 1805; type CÆLORHYNCHIUS LA VILLE Giorna.

Trachyrhynchus Giorna, 18, 1805; type (not named) LEPIDOLEPRUS TRACHYRINCUS Risso, 1810.

An earlier paper of Giorna is quoted by Dean, *Mémoire sur cinq poissons dont deux sont d'espèces nouvelles . . . et les trois autres sont de nouveaux genres*: Mém. Acad. Imp. Torino. The date of this paper is variously given. The three genera above noted were not named. Giorna would not give the nomenclature until he heard from Lacepède, to whom he had sent descriptions and drawings. The two species indicated were RAIA GIORNA Lacepède and BALISTES BUNIVA Lacepède.

LXIII. QUENSEL, *Forsäk at Narmäre Bestämma och naturligare Uppställä Svenska Arterna af Flunderslagte*: Kong. Vet. Akad. Nya Handling, XXVII, 1806.

C. QUENSEL.

Solea Quensel, XXVII, 44, 203, 1806; type PLEURONECTES SOLEA L.

LXIV. DUMÉRIl, *Zoologie Analytique*, 1806.

ANDRÉ MARIE CONSTANT DUMÉRIl.

This work furnishes in the Index, pp. 342, 343, Latin equivalents for French vernacular names used by Lacepède, *Hist. Nat. Poiss.*, I, II, 1798, 1800. (Partly examined by us, some of the pages not verified).

Squatina Dumérl, 102, 342; type (not named) **SQUATINA ANGELUS** Dumérl (**SQUALUS SQUATINA** L.).

Equivalent to **RHINA** Klein.

Torpedo Dumérl, 102, 343; type (not named) **RAJA TORPEDO** L.

Not **TORPEDO** Forskål. Same as **NARCACION** Klein. **NARCOBATIS** Blainville.

Ovoides (Lacepède) Dumérl, 108, 342; type **L'OVOIDE FASCÉ**.

Based on a front view of **TETRAODON STELLATUS** L.

Equivalent to **OVIDES** Cuvier and **OVUM** Bloch & Schneider.

Apterichthys Dumérl, 112, 331; type **MURÆNA CÆCA** L.

Substitute for **CÆCILIA** Lacepède, preoccupied. A synonym of **SPHAGEBRANCHIUS** Bloch.

Bostrichthys Dumérl, 120, 332; type **BOSTRYCHIUS SINENSIS** Lacepède.

Name a substitute for **BOSTRYCHUS**, preoccupied.

Spheroides (Lacepède) Dumérl, 342; type "**LE SPHÉROIDE TUBERCULÉ**" Lacepède, 1798.

A front view of **TETRAODON SPENGLERI** Bloch. A synonym of **TETRAODON**, as restricted by Bleeker.

Macrorhynchus (Lacepède) Dumérl, 342; type "**MACRORHYNQUE ARGENTÉE**" Lacepède (**SYNGNATHIUS ARGENTEUS** Osbeck).

A species near **DICROTUS PROMETHEOIDES** Bleeker. Probably replaces **DICROTUS** Gunther.

LXV. DUMÉRIl, *Dictionnaire des Sciences Naturelles*, 1806.

ANDRÉ MARIE CONSTANT DUMÉRIl.

Torpedo Dumérl, pl. 21; type **RAJA TORPEDO** L.

Not **TORPEDO** Forskål, 1775; replaced by **NARCACION** Klein or by **NARCOBATIS** Blainville.

LXVI. HUMBOLDT, *Ueber den Eremophilus und den Astroblepus, zwei neue Fisch-Gattungen*: *Observationes Zoologicae*, and in *Philos. Mag.*, XXIV, 1806.

ALEXANDER VON HUMBOLDT.

Eremophilus Humboldt, 17, 329; type EREMOPHILUS MUTISII Humboldt.

Astroblepus Humboldt, 19, 331; type ASTROBLEPUS GRIMALDI Humboldt.

LXVII. DUMÉRIL, *Dissertation sur les Poissons CYCLOSTOMES*, 1808.

ANDRÉ MARIE CONSTANT DUMÉRIL.

Ammocœtus Duméril; type PETROMYZON PLANERI L.

The larva of LAMPETRA FLUVIATILIS (L.) and of PETROMYZON MARINUS L. Preferably retained, under the usual spelling, AMMOCETES, as a designation for larval lampreys. Otherwise replaces LAMPETRA Gray, 1854; type PETROMYZON FLUVIATILIS L.

LXVIII. TILESIIUS, *Descriptions de quelques Poissons*: Krusenstern's *Reise um die Welt.*, *Mem. Soc. Nat. Moscow*, II, 1809.

W. G. VON TILESIIUS.

Not seen by us.

Erius Tilesius, 213, 1809; type ERICIUS (JAPONICUS Houttuyn).

A synonym of MONOCENTRIS Bloch & Schneider.

Hexagrammos (Steller) Tilesius, *Actæ Academ. Petropol.*, II, 335, 1809; type HEXAGRAMMOS STELLERI Tilesius (HEXAGRAMMOS ASPER Tilesius).

Often written HEXAGRAMMUS.

LXIX. GEOFFROY SAINT HILAIRE, *Poissons du Nil, de la Mer Rouge et de la Méditerranée*: in *Description de l'Égypte*, publiée par Napoléon le Grand, *Histoire Naturelle*, I, 1809-1827.

ÉTIENNE FRANÇOIS GEOFFROY SAINT HILAIRE.

In this huge folio a few species of fishes are described in great detail, with steel engravings. The work is in three parts, published in 1809,

1818, and 1825, respectively, the second and third parts being prepared by Isidore Geoffroy Saint Hilaire.

Polypterus Geoffroy St. Hilaire, I, 1809; type **POLYPTERUS BICHR** St. Hilaire.

LXX. PALLAS, *Labraces novum piscium genus Oceani Orientalis*: Mem. Acad. Sci. Petersb., II, 1810.

PETER SIMON PALLAS.

Labrax Pallas, II, 382, 1810; type **LABRAX LAGOCEPHALUS** Pallas.
Not of Klein nor of Cuvier. A synonym of **HEXAGRAMMOS** Steller.

LXXI. RISSO, *Ichthyologie de Nice*, 1810.

ANASTASE RISSO.

Cephalopterus Risso, 14; type **RAJA GIORNA** Lacepède.

Not **CEPHALOPTERUS** of Geoffroy St. Hilaire, 1809, a genus of birds. Equivalent to **MOBULA** Rafinesque.

Lepidoleprus Risso, 197; type **LEPIDOLEPRUS TRACHYRHYNCHUS** Risso.
A synonym of **TRACHYRHYNCHUS** Giorna.

Tetragonurus Risso, 347; type **TETRAGONURUS CUVIERI** Risso.

LXXII. RAFINESQUE, *Caratteri di Alcuni Nuovi Generi e Nuove Specie di Animale e Piante della Sicilia*, April 1, 1810.

CONSTANTINE SAMUEL RAFINESQUE-SCHMALTZ
(later written simply "RAFINESQUE").

Carcharias Rafinesque, 10; type **CARCHARIAS TAURUS** Rafinesque.

The intended type was **SQUALUS CARCHARIAS** L., but **C. TAURUS** is the only species actually mentioned. Monotypic. Replaces **ODONTASPIS** Agassiz. Not **CARCHARIAS** Cuvier, 1817.

Dalatias Rafinesque, 10; type **DALATIAS NOCTURNUS** Rafinesque.

Gray in 1851 restricted **DALATIAS** to **D. SPAROPHAGUS** Rafinesque. Swainson, 1838, formally restricted **DALATIAS** to **DALATIAS NOCTURNUS**, which seems to be a species of **CENTROPHORUS** Müller & Henle, probably **C. GRANULOSUS**.

Tetroras Rafinesque, 11; type **TETRORAS ANGIOVA** Rafinesque.

A second-hand and erroneous description, possibly referring to **CETORHINUS MAXIMUS**, but unrecognizable. Monotypic.

Isurus Rafinesque, 11; type *ISURUS OXYRHYNCHIUS* Rafinesque.

Monotypic. Replaces *OXYRHINA* Agassiz.

Cerictius Rafinesque, 12; type *CERICTIUS MACROURUS* Rafinesque.

Apparently imaginary.

Alopias Rafinesque, 12; type *ALOPIAS MACROURUS* Rafinesque (*SQUALUS VULPINUS* Bonnaterre).

Monotypic.

Heptranchias Rafinesque, 13; type *SQUALUS CINEREUS* Gmelin.

Monotypic.

Galeus Rafinesque, 13; type *GALEUS MUSTELUS* L.

As restricted by Jordan & Evermann, 1896, after Leach, 1812. Later restricted to *PRISTIURUS MELASTOMUS* by Garman. Not *GALEUS* Valmont, nor *GALEUS* Cuvier.

Rafinesque describes one new species of *GALEUS*, *G. MELASTOMUS*, but refers in the text to *GALEUS CATULUS* and *GALEUS MUSTELUS*. Unless *GALEUS* Valmont holds, in place of *PRIONACE*, *GALEUS* becomes a synonym of *MUSTELUS* Linck.

Hexanchus Rafinesque, 14; type *SQUALUS GRISEUS* L.

Monotypic. Replaces *NOTIDANUS* Cuvier.

Etmopterus Rafinesque, 14; type *ETMOPTERUS ACULEATUS* Rafinesque.

Monotypic. Replaces *SPINAX* Cuvier.

Rhina Rafinesque, 14; type *SQUALUS SQUATINA* L.

Monotypic. Identical with *RHINA* Klein, and *SQUATINA* Duméril.

Leiobatus Rafinesque, 16; type *LEIOBATUS PANDURATUS* Rafinesque.

Monotypic. A synonym of *RHINOBATUS* Linck. Not *LEIOBATUS* Klein.

Dipturus Rafinesque, 16; type *RAJA BATIS* L.

Monotypic. Identical with *RAJA* L.

Dasyatis Rafinesque, 16; type *DASYATIS UJO* Rafinesque (*RAJA PASTINACA* L.).

Monotypic. Identical with *DASYBATUS* Klein and *TRYGON* Adanson.

Orthragus Rafinesque, 17; type *TETRAODON MOLA* L.

Monotypic. Equivalent to *MOLA* Kœlreuter.

Diplanchias Rafinesque, 17; type *DIPLANCHIAS NASUS* Rafinesque.

Monotypic. Equivalent to *MOLA*.

Typhle Rafinesque, 18; type *TYPHLE HEXAGONUS* Rafinesque (*SYNGNATHIUS TYPHLE* L.).

Misspelled *TYPHLE*. Preoccupied by *TYPHLE* * Lacepède, 1800, a genus of mammals. Replaced by *TYPHILINUS* Rafinesque, 1815, and by *SIPHONOSTOMUS* Kaup. Monotypic.

* Under the head of *CÆCILIA*, Lacepède refers to its alleged blindness, a character almost unknown among vertebrates. "Parmi lesquels on ne connoît encore qu'un mammifère, nommé *TYPHLE*, et le genre des cartilagineux nommés *GASTROBRANCHES* qui aient paru complètement aveugles."

Siphostoma Rafinesque, 18; type *SYNGNATHUS PELAGICUS* L.

Monotypic. A synonym of *SYNGNATHUS* L. as the latter is now restricted.

Hippocampus Rafinesque, 18; type *SYNGNATHUS HIPPOCAMPUS* L.
(*HIPPOCAMPUS HEPTAGONUS* Rafinesque).

Oxyurus Rafinesque, 19; type *OXYURUS VERMIFORMIS* Lacepède.

A larva, probably of *CONGER*.

Scarcina Rafinesque, 20; type *SCARCINA ARGYREA* Rafinesque.

A synonym of *LEPIDOPUS* Gouan.

Lugarus Rafinesque, 22; type *LUVARUS IMPERIALIS* Rafinesque.

Monotypic.

Bothus Rafinesque, 23; type, as restricted, *BOTHUS RUMOLO* Rafinesque
(*PLEURONECTES RHOMBUS* L.).

Equivalent to *RHOMBUS* Klein, of earlier date.

Corystion Rafinesque, 24; type *CORYSTION MUSTAZOLA* Rafinesque.

Some species of *TRACHINUS* L. Monotypic.

Merluccius Rafinesque, 25; type *GADUS MERLUCIUS* L. (*MERLUCCIUS SMIRIDUS* Rafinesque).

Monotypic.

Phycis Rafinesque, 26; type *PHYCIS PUNCTATUS* Rafinesque.

Not *PHYCIS* Fabricius, 1798, a genus of Butterflies. Equivalent to *PHYCIS* Röse, 1793, which is not preoccupied.

Oxycephas Rafinesque, 31; type *OXYCEPHAS SCABRUS* Rafinesque.

A species of *TRACHYRHYNCHUS* Giorna, 1805. Monotypic.

Lepimphis Rafinesque, 33; type *LEPIMPHIS HIPPUROIDES* Rafinesque
(*CORYPHÆNA HIPPURUS* L.).

Identical with *CORYPHÆNA*.

Symphodus Rafinesque, 41; type *SYMPHODUS FULVESCENS* Rafinesque
= *LUTIANUS ROSTRATUS* Bloch = *LABRUS SCINA* Forskål.

Replaces *CORICUS* Cuvier.

Trachurus Rafinesque, 41; type *SCOMBER TRACHIURUS* L. (*TRACHIURUS SAURUS* Rafinesque).

By general usage and by tautonomy.

Tricropterus Rafinesque, 41; type by definition, *SCOMBER CARANGUS* Bloch (*SCOMBER HIPPOS* L.).

Not separable from *CARANX*; no species named.

Hypodis Rafinesque, 41; type *SCOMBER GLAUCUS* L.

Equivalent to *GLAUCUS* Klein; not separable from *CÆSIOMORUS* Lacepède.

Centracanthus Rafinesque, 42 (misprinted *CENTRACANTUS*); type *CENTRACANTUS CIRRHUS* Rafinesque (*SMARIS INSIDIATOR* Cuv. & Val.).

Monotypic; probably a specimen with the dorsal fin torn. This seems to be generically different from *SPICARA* Rafinesque, *SMARIS* Cuvier. Afterwards spelled *CENTRACANTHIA*.

Hypacanthus Rafinesque, 43 (misprinted *HYPACANTUS*); type "*SCOMBER ACULEATUS* L."

But there is no such species of Linnæus. Rafinesque elsewhere identifies it with *CENTRONOTUS VADIGO* Lacepède, which is the type of *CAMPTOGRAMMA* Regan, 1903. This name must be replaced by *HYPACANTHUS*.

Naucrates Rafinesque, 43; type *NAUCRATES FANFARUS* Rafinesque (*GASTEROSTEUS DUCTOR* L.).

Replaces *CENTRONOTUS* Lacepède, preoccupied.

Notognidion Rafinesque, 46; type *NOTOGNIDION SCIRENGA* Rafinesque. Unidentified. Monotypic.

Spicara Rafinesque, 51; type *SPICARA FLEXUOSA* Rafinesque (*SPARUS SMARIS* L.).

Equivalent to *SMARIS* Cuvier and having priority. Monotypic.

Aylopon Rafinesque, 52; type *LABRUS ANTHIAS* L.

A substitute for *ANTHIAS* Bloch, said to be preoccupied. We do not find it so.

Lopharis Rafinesque, 52; type *PERCA LOPIHAR* Forskål.

Identical with *POMATOMUS* Lacepède. Monotypic.

Lepterus Rafinesque, 52; type *LEPTERUS FETULA* Rafinesque (*STROMATEUS FIATOLA* L.).

Identical with *STROMATEUS* L. Monotypic.

Gonenion Rafinesque, 53; type *GONENION SERRA* Rafinesque (*PERCA LOPHAR* Forskål).

Identical with *POMATOMUS* Lacepède. Monotypic.

Lepodus Rafinesque, 53; type *LEPODUS SARAGUS* Rafinesque (*SPARUS RAI* Bloch).

Monotypic. Equivalent to *BRAMA* Bloch & Schneider, not of Klein. Replaces *BRAMA* Cuvier, if Klein's names are eligible.

Tetrapturus Rafinesque, 54; type *TETRAPTURUS BELONE* Rafinesque.

Argyctius Rafinesque, 55; type *ARGYCTIUS QUADRIMACULATUS* Rafinesque.

Equivalent to *TRACHYPTERUS* Gouan.

Tirus Rafinesque, 56; type *TIRUS MARMORATUS* Rafinesque (*ESOX SYNODUS* L.).

Equivalent to *SYNODUS*.

Lucius Rafinesque, 59; type *ESOX LUCIUS* L. (*LUCIUS VORAX* Rafinesque).

The author attempts to limit the name *ESOX* to *ESOX BELONE* L., and its allies, an arrangement not accepted by the International Commission, (Opinion 58).

Sudis Rafinesque, 60; type *SUDIS HYALINA* Rafinesque.

Monotypic.

Sayris Rafinesque, 60; type SAYRIS RECURVIROSTRA Rafinesque (ESOX SAURUS Walbaum).

A needless substitute for SCOMBERESOX.

Cogrus Rafinesque, 62; type COGRUS MACULATUS Rafinesque.

COGRUS is a tenable subgenus of OPHICHTHUS.

Piescephalus Rafinesque, 63; type PIESCEPHALUS ADHERENS Rafinesque (LEPADOGASTER GOUANI Gouan).

A synonym of LEPADOGASTER Gouan.

Echelus Rafinesque, 63; type by first restriction (Bleeker, *Atlas Ichth., Muræn.*, p. 30) ECHELUS PUNCTATUS Rafinesque (MURÆNA MYRUS L.).

Identical with MYRUS Kaup, 1856. Restricted later by Jordan & Evermann to species of CONGER, but the earliest arrangement must hold.

Nettastoma Rafinesque, 66; type NETTASTOMA MELANURA Rafinesque. Monotypic.

Dalophis Rafinesque, 68; type DALOPHIS SERPA Rafinesque (SPIRACERANCHIUS IMBERBIS De la Roche, 1809).

Equivalent to CÆCULA Vahl.

LXXIII. RAFINESQUE, *Indice d'Ittiologia Siciliana*, May, 1810.

CONSTANTINE SAMUEL RAFINESQUE-SCHMALTZ.

Onus Rafinesque, 12; type ONUS RIALI Rafinesque (GADUS MERLUCCIUS L.).

A needless substitute for MERLUCCIUS.

Merolepis Rafinesque, 25; type SPARUS MASSILIENSIS Lacepède (SPARUS ZEBRA Brünnich).

Probably a genus distinct from MÆNA Cuvier.

Gaidropsarus Rafinesque, 11, 51; type GAIDROPSARUS MUSTELLARIS Rafinesque (GADUS MUSTELA L.).

Antedates MOTELLA Cuvier. Monotypic.

Strinsia Rafinesque, 12, 51; type STRINSIA TINCA Rafinesque. Monotypic.

Symphurus Rafinesque, 13, 52; type SYMPHURUS NIGRESCENS Rafinesque.

Antedates APHROSTIA Kaup, but not PLAGUSIA Browne.

Solea Rafinesque, 14, 52; type SOLLA HUGLOSSA Rafinesque (PLEURONECTES SOLEA L.).

Equivalent to SOLEA Quensel.

Scophthalmus Rafinesque, 14, 53; type *PLEURONECTES RHOMBUS* L.

As later restricted, identical with *BOTHUS* Rafinesque and *RHOMBUS* Klein. *SCOPHTHALMUS* is based on descriptions, *BOTHUS* on specimens of the same two species.

Diplodus Rafinesque, 26, 54; type *SPARUS ANNULARIS* L.

Equivalent to *SARGUS* Cuvier and prior, but not prior to *SARGUS* Klein.

Octonus Rafinesque, 29, 54; type *OCTONUS OLOSTEON* Rafinesque (*TRIGLA CATAPHRACTA* L.).

Monotypic. Equivalent to *PERISTEDION* Lacepède.

Cephalepis Rafinesque, 31, 54; type *CEPHALEPIS OCTOMACULATUS* Rafinesque.

A synonym of *REGALECUS* Ascanius. Monotypic.

Myctophum Rafinesque, 35, 56; type *MYCTOPHUM PUNCTATUM* Rafinesque.

Nerophis Rafinesque, 37, 57; type *SYNGNATHUS OPHIDION* L.

Monotypic.

Carapus Rafinesque, 37, 57; type *GYMNOTUS ACUS* L.

Prior to *FIERASFER* Cuvier. Not *CARAPUS* Cuvier = *GITON* Kaup.

Sturio Rafinesque, 41, 58; type *STURIO VULGARIS* Rafinesque (*ACIPENSER STURIO* L.).

Capriscus Rafinesque, 41, 58; type *CAPRISCUS PORCUS* Rafinesque (*BALISTES CAPRISCUS* Gmelin, "the third division of Lacepède").

Equivalent to *BALISTES* L.

Chlopsis Rafinesque, 42, 58; type *CHLOPSIS BICOLOR* Rafinesque.

Monotypic.

Xypterus Rafinesque, 43, 59; type *XYPTERUS IMPERATI* Rafinesque.

Apparently a synonym of *REGALECUS* Ascanius. Monotypic.

Pterurus Rafinesque, 43, 59; type *PTERURUS FLEXUOSUS* Rafinesque (*SPHAGEBRANCHUS IMBERBIS* De la Roche).

Name preoccupied: a synonym of *CÆCULA* Vahl.

Oxynotus Rafinesque, 45, 60; type *SQUALUS CENTRINA* L.

Prior to *CENTRINA* Cuvier, 1817.

Sphyrna Rafinesque, 46, 60; type *SQUALUS ZYGÆNA* L.

Prior to *ZYGÆNA* Cuvier.

Torpedo Rafinesque, 48, 60; type *TORPEDO OCELLATA* Rafinesque (*RAJA TORPEDO* L.).

Not *TORPEDO* Forskål.

Mobula Rafinesque, 48, 61; type *MOBULA AURICULATA* Rafinesque (*RAJA MOBULAR* Lacepède).

Same as *CEPHALOPTERUS* Risso, preoccupied.

Cephaleutherus Rafinesque, 48, 61; type *CEPHALEUTHERUS MACULATUS* Rafinesque.

Apparently a deformed *RAJA*. Monotypic.

Uroxis Rafinesque, 48, 61; type *UROXIS UJUS* Rafinesque (*RAJA PASTINACA* L.).

Monotypic. Equivalent to *DASYATIS* Rafinesque.

Apterurus Rafinesque, 48, 62; type *APTERURUS FABRONI* Rafinesque.

Equivalent to *MOBULA* Rafinesque.

Oxystomus Rafinesque, 49, 62; type *OXYSTOMUS HYALINUS* Rafinesque, larva of *OPHISURUS SERPENS* (L.).

A synonym of *OPHISURUS* Lacepède.

Helmictis Rafinesque, 49, 62; type *HELMICTIS PUNCTATUS* Rafinesque, 1810.

Probably a species of *CÆCULA*. Monotypic.

Epigonus Rafinesque, 64; type *EPIGONUS MACROPHTHALMUS* Rafinesque.

Equivalent to *POMATOMUS* Cuvier, not of Lacepède. Monotypic.

Gonostoma Rafinesque, 64; type *GONOSTOMA DENUDATUM* Rafinesque.

Monotypic.

Merlangus Rafinesque, 67; type *GADUS MERLUCIUS* L.

A needless substitute for *ONUS* and *MERLUCCIUS*.

LXXIV. STELLER in *Tilesius*: Mem. Acad. Sci., Petersburg, 1811.

GEORG WILHELM STELLER.

Myoxocephalus Steller, in *Tilesius*, IV, 273; type *MYOXOCEPHALUS STELLERI* Tilesius.

LXXV. PALLAS, *Zoographia Rosso-Asiatica*, III, 1811.

PETER SIMON PALLAS.

This important work was printed and partly distributed in 1811, the bulk of the edition being withheld until 1831.

Phalangistes Pallas, 113; type *COTTUS CATAPHRACTUS* L.

As restricted by Jordan & Evermann. Also written *PHALANGISTA*. Not *PHALANGISTA* Cuvier, 1800, a genus of mammals. Equivalent to *AGONUS* Lacepède.

Elæorhoüs Pallas, 122; type *CALLIONYMUS BAIGALENSIS* Pallas.

A synonym of *COMEPHORUS* Lacepède.

Gasteracanthus Pallas, 228; type *GASTERACANTHUS CATAPHRACTUS* Pallas.

Equivalent to *GASTEROSTEUS* L.

Coracinus Pallas, 256; type *CORACINUS CHALCIS* Pallas (*SCIÆNA NIGRA* Bloch).

Equivalent to *CORVINA* Cuvier, 1829. Not *CORACINUS* Gronow, which is *DIPTERODON* Cuvier.

Lebius (Steller Ms.) Pallas, 279; type *LABRAX SUPERCILIOSUS* Pallas, "LEBIUS, CHIRUS VEL LABRAX Steller, Mss. Obs. Ichthyol."

These three names are indicated in Steller's unprinted manuscripts as words from which choice could be made.

Chirus (Steller Ms.) Pallas, 279; type *LABRAX SUPERCILIOSUS* Pallas.

Like the preceding synonym of *LABRAX* or *HEXAGRAMMOS*.

Plagyodus (Steller Ms.) Pallas, 383; type *PLAGYODUS* Steller (*ALEPISAUROS ÆSCULAPIUS* Bean).

Equivalent to *ALEPISAUROS* Lowe, 1833, the name used by Steller only in an oblique case, "PLAGYODONTEM" and without specific name.

LXXVI. LEACH, *Observations on the genus SQUALUS*, 1812.

WILLIAM E. LEACH.

Mustelus Leach, 62; type *SQUALUS MUSTELUS* L.

LXXVII. MONTAGU, *Wernerian Museum*, I, 1812.

GEORGE MONTAGU.

Xipotheca Montagu, I, 82; type *XIPOTHECA TETRADENS* Montagu = *LEPIDOPUS CAUDATUS* (Euphrasen).

A synonym of *LEPIDOPUS*.

LXXVIII. FISCHER, *Zoognosia, Tabulis Synopticus Illustrata*, Edition III, vol. I, 1813.

GOTTHELF FISCHER.

A series of Analytical Keys, leading to genera only.

Histrio Fischer, 70, 78; type (not named) *LOPHIUS HISTRIO* L., by tautonomy.

Diagnosis erroneous, by misprint "corpus depressum" instead of "corpus compressum." Has precedence over *PTEROPHYRNE* Gill and *PTEROPHYRNOIDES* Gill.

Ogcocephalus Fischer, 70, 78; type not named; evidently by definition,
LOPIIUS VESPERTILIO L.

Replaces *MALTHE* Cuvier.

Orbis (Lacepède) Fischer, 70; no type named.

Said to be like *DIODON* but "ad minus 4 dentes in maxilla superiore." Evidently a misprint for "2 dentes." It is probably a synonym of *OVOIDES* Cuvier, the presumable type being *TETRAODON LINEATUS* L., the "ORBIS" of Salviani and Rondelet.

Odontolepis Fischer, 71, 78; no type named.

A flounder with "pinnae pectorales tenuissimæ aut nullæ, reliquis conjunctis." The type may be assumed as *SYMPHURUS NIGRESCENS*. A synonym of *SYMPHURUS* Rafinesque, 1810. Perhaps species of *MONOCHIRUS* or *MICROCHIRUS* were included.

Psilus Fischer, 74.

A substitute for *BOSTRYCHUS* Lacepède, which is preoccupied. Equivalent to *BOSTRICHTHYS* Duméril.

Psiloides Fischer, 74.

A needless substitute for *BOSTRYCHOIDES* Lacepède.

Typhlotes Fischer, 75.

A substitute for *CÆCILIA* Lacepède, preoccupied. A synonym of *SPHAGERRANCHUS* Bloch.

Mustellus Fischer, 78; type (not named) *SQUALUS MUSTELUS* L.

A synonym of *MUSTELUS* Linck, not of Valmont.

LXXIX. FISCHER, *Recherches Zoologiques: Mémoires de la Société Impériale des Naturalistes de Moscou*, IV, second edition, 1813.

Eleginus Fischer, 252; type *GADUS NAVAGA* Kœlreuter.

Replaces *TILESTIA* Swainson, 1839 (preoccupied) and *PLEUROGADUS* Bean, 1885. Not *ELEGINUS* Cuv. & Val., 1830, which becomes *ELEGINOPS* Gill.

LXXX. LEACH, *Zoological Miscellany*, 1814.

WILLIAM E. LEACH.

Hippocampus Leach, 103; type *SYNGNATHIUS HIPPOCAMPUS* L. (*HIPPOCAMPUS ANTIQUORUM* Leach).

Same as *HIPPOCAMPUS* Rafinesque, 1810.

LXXXI. MITCHILL, *Report in Part on the Fishes of New York*, 1814.

SAMUEL LATHAM MITCHILL.

Stomodon Mitchill, 7; type STOMODON BILINEARIS Mitchill.

Equivalent to MERLUCCIUS Rafinesque.

Morone Mitchill, 18; type MORONE PALLIDA Mitchill (PERCA AMERICANA Gmelin).

As restricted by Gill, 1860.

Tautoga Mitchill, 23; type TAUTOGA NIGER Mitchill (LABRUS ONITIS L.).**Roccus** Mitchill, 25; type ROCCUS STRIATUS Mitchill (SCIÆNA LINEATA Bloch).

As restricted by Gill.

LXXXII. RAFINESQUE, *Descrizione di un Nuovo Genere di Pesce*: Specchio delle Scienze, Palermo, 1814.

CONSTANTINE SAMUEL RAFINESQUE.

Leptopus Rafinesque, I, 16; type LEPTOPUS PEREGRINUS Rafinesque.

Monotypic. Name preoccupied and later changed to PODOLEPTUS Rafinesque, 1815. Apparently a synonym of LOPHOTES Giorna.

LXXXIII. RAFINESQUE, *Descrizione di un Nuovo Genere di Pesce Siciliano*: Specchio delle Scienze, II, 1815.**Nemochirus** Rafinesque, II, 100, 105; type NEMOCHIRUS ERYTHROPTERUS Rafinesque.

Unrecognized.

The following is Rafinesque's account of this fish:

NEMOCHIRUS. Corpo lanceolato compressissimo ensiforme, fronte diagonale, bocca dentata, un' ala dorsale longitudinale senza raggi sciolti, ala caudale sciolta, nessun' ala anale, le due ale pettorali filiformi avvicinate e situate sotto la gola al posto delle ventrali.

NEMOCHIRUS ERYTHROPTERUS. Corpo argentato, ale rosse, coda lunulata, con un raggio intermedio mucronato sciolto lunghissimo e filiforme, tre macchie fosche da ogni lato del dorso.

Descrizione. Lunghezza totale due palmi, muso ottuso, mascella inferiore più corta con denti acuti, occhi piccoli neri, iride grande argentina con un cerchio rosso esteriore, opercolo doppio: corpo d'un bel colore argenteo, con tre macchie irregolari fosche di ogni lato del dorso, linea laterale dritta, ventre un poco reti-

colato. Ale pettorali rosse lineari-filiformi acute e con un solo raggio, ala dorsale rossa principiando sopra gli occhi e giungendo sino alla coda, della quale è però staccata e con circa 200 raggi molli: coda rossa un poco trifida o quasi lunulata con però il raggio intermedio semplice, sporgente lunghissimo, mentre i laterali sono ramosi con i rami opposti.

We are indebted to Mr. H. M. Scudder for a copy of this rare and forgotten description. If this account is correct it is still unknown to science, though having much in common with *STYLEPHORUS CORDATUS* Shaw.

LXXXIV. RAFINESQUE, *Précis des Découvertes Somnologiques*, 1814.

Trisopterus Rafinesque, 16; type *GADUS CAPELANUS* Lacepède (*GADUS MINUTUS* L.).

According to Risso the name is synonymous with *MORUA* Risso, and must be older. Equivalent to *BRACHYGADUS* Gill.

Monochirus Rafinesque; type *MONOCHIRUS IMSPIDUS* Raf.

LXXXV. RAFINESQUE, *Analyse de la Nature, ou Tableau de l'Univers et des Corps Organisés* "La Nature est mon Guide et Linneus mon maître." Palermo, 1815.

In this work the entire animal and plant kingdoms are classified, with definitions of the families and higher groups and lists of the known genera. Three hundred and seventy-seven genera of fishes are enumerated. Many of these are bare names, without explanation of any sort. Others represent changes of names of genera for reasons not expressed, but apparently because current names were too long, too short, or involved a termination (*OIDES*, *OMORUS*) expressing resemblance. The fishes are divided into two subclasses, *HOLOBRANCHIA* with opercles and gill membranes complete, and *ATELOSIA*, lacking either opercles or gill membranes.

The *HOLOBRANCHIA* are divided into *DERIPIA* (Jugulares), *GASTRIPIA* (Abdominales), *THORAXIPIA* (Thoracices), *APODIA* (Apodes).

The *ATELOSIA* are divided into *ELTROPOMIA* (Sturgeons: *Sternoptyx*, *Pegasus*) with one opercle and no gill membrane; *CHISMOPNEA*, with gill-membranes and one opercle (*Chimæra*, *Balistes*, *Conger*, etc.); and *TREMAPNEA*, with neither opercles nor gill membranes (eels and sharks).

This classification is singularly inept.

Dactyleptus Rafinesque, 82.

Substitute for *MURÆNOIDES* Lacepède.

Pholidus Rafinesque, 82.

A synonym of *PHOLIS* Scopoli. Substitute for *ENCHELYOPUS* Gronow.

Pteraclidus Rafinesque, 82.

Substitute for *OLIGOPODUS* Lacepède. A synonym of *PTERACLIS* Gronow.

Pacamus, 82; nomen nudum.

Ictius, 82, "sp. do."

That is, based on species of the preceding, *i. e.*, *PACAMUS*.

Dropsarus, 82.

Evidently an emendation of *GAIDROPSARUS* Rafinesque.

Trisopterus, 82.

Brosme, 82.

Batrictius, 82.

A substitute for *BATRACHOIDES* Lacepède.

Ceracantha, 82.

Taunis, 82.

Plagiusa, 83, "sp. do."

That is, species of *PLEURONECTES*; apparently based on *PLEURONECTES PLAGIUSA* L., thus equivalent to *SYMPHURUS* Rafinesque, 1810.

Holacantha, 83.

Substitute for *HOLACANTHUS* Lacepède.

Pomacantha, 83.

Nasonus, 83.

Substitute for *NASO* Lacepède.

Alectis, 84.

Substitute for *GALLUS* Lacepède, which is preoccupied, leaving *ALECTIS* as valid.

Bostrictis, 84.

Substitute for *BOSTRYCHUS* Lacepède: a synonym of *BOSTRICHTHYS* Duméril, 1806.

Pterops, 84, 90.

Substitute for *BOSTRYCHOIDES* Lacepède.

Tasica, 84.

Nemipus, 84.

Cephalepis, 84.

Gymnurus, 84.

Substitute for *TÆNIOIDES* Lacepède.

Polipturus, 84.

Substitute for *SCOMBEROMORUS* Lacepède.

Orcynus, 84.

Substitute for *SCOMBEROIDES* Lacepède.

Baillonus, 85.

Substitute for *CÆSIOMORUS* Lacepède.

Lepicantha, 85.

Apparently shortened from *LEPISACANTHUS* Lacepède

Gastrogonus, 85.

Cephimmus, 85.

Substitute for *GYMNOCEPHALUS* Bloch.

Lepipterus, 85.

Panotus, 85.

Substitute for *TÆNIONOTUS* Lacepède.

Aylopon, 85.

Substitute for *ANTHIAS* Bloch.

Lopharis, 85.

Cephacandia, 85.

Substitute for *CEPHALACANTHUS* Lacepède.

"Gonurus Lac.," 85.

Unexplained; no such name appears in Lacepède.

Lepomus, 86.

Pomagonus, 86.

Mesopodus, 86.

Acaramus, 86.

Clodipterus, 86, also on 88.

Substitute for *CHEILODIPTERUS* Lacepède.

Macrolepis, 86, "sp. do."

That is, of *APOGON* Lacepède.

Guebucus, 86.

Micropodus, 86.

Substitute for *CHEILIO* Lacepède.

Megaphalus, 86.

Substitute for *GOBIESOX* Lacepède.

Pomacanthis, 86.

Oxima, 86.

Equetus, 86.

Substitute for *EQUES* Bloch.

Branchiostegus, 86.

Substitute for CORYPHÆNOIDES Lacepède, not of Gunner. Replaces LATILUS Cuv. & Val., 1830.

"Eleotris Gr., GOBIOMORUS Lacepède," 86.**Epiphthalmus**, 86.

Substitute for GOBIOMOROIDES Lacepède.

Lepimphis, 86.**Plecopodus**, 87.

Substitute for GOBIOIDES Lacepède.

Piescephalus, 87.**Lumpus**, 87, "sp. do."

That is, of CYCLOPTERUS.

Liparius, 87, "sp. do."

That is, of CYCLOPTERUS.

Percis Scopoli, 87.

Said to be same as ASPIDOPHOROIDES Lacepède.

Aygula, 87.

Substitute for CORIS Lacepède.

Octonus, 88.**Gasterodon**, 88.**Xysterus**, 88.

For XYSTER Lacepède.

Meneus, 88.

For MENE Lacepède.

Buronus, 88.

For BURO Lacepède.

Thrissa, 88.

Substitute for CLUPANODON Lacepède.

Megalops, 88.**Prinodon**, 88.

Substitute for CYPRINODON Lacepède.

Maturacus, 88.**Edomus**, 88.**Gonipus**, 88.**Myxonum**, 88.

Substitute for MUGILOIDES Lacepède.

Trichonotus, 88.

Substitute for MUGIOMORUS Lacepède.

Soranus, 88.

Cordorinus, 89.

Substitute for *CORYDORAS* Lacepède.

Amiatus, 89.

Substitute for *AMIA* L. *AMIATUS* becomes eligible if *AMIA* Gronow be accepted instead of *APOGON*.

Sayris, 89.

Substitute for *SCOMBRESOX* Lacepède.

Ramphistoma, 89; "Raf. *BELONE* Gronow."

The word *BELONE* was not used in a generic sense by Gronow, but first by Cuvier in 1817. Rafinesque apparently refers to synonymy of the species as quoted from Gronow by Lacepède.* This reference does not seem to justify the substitution of *RAMPHISTOMA* for *BELONE*.

Odumphus, 89.

Onopionus, 89.

Guaris, 90.

Typhlinus, 90, "sp. do."

That is, of *SYNGNATHUS*, earlier called *TYPHLE* by Rafinesque, which name is used by Lacepède for a "blind" genus of mammals, but without mention of type.

Phyllophorus, 90.

Homolenus, 90.

This and the two preceding are placed in the same family as *SYNGNATHUS*.

Goniodermus, 90, "sp. do."

Of *OSTRACION*.

Cephalopsis, 90, "sp. do."

Of *DIODON*.

Orbidus, 90.

For "*SPHEROIDE*" of Lacepède.

Oonidus, 90.

For "*OVOIDE*" of Lacepède.

Tangus, 91.

Said to be the same as "*HEPTACA*" Rafinesque.

Piratia, 91.

Opictus, 91.

*In the synonymy of *ESOX BELONE* Lacepède has this quotation:

"*Belone et raphis, id est acus. Petri Artedi Synonymia Piscium etc., auctore J. G. Schneider, etc.*

"Gronov. Mus. 1, n. 39. Zooph., p. 117, n. 362."

In a hasty reading, Rafinesque must have ascribed both sentences to Gronow, who apparently did not use the name *BELONE*.

Ictiopogon, 91.

Substitute for *BOSTRYCHUS* Lacepède, which is preoccupied.

Dameus, 91.

Neleus, 91.

Nemochirus, 91.

Dipinotus, 91.

Symphocles, 91.

This and the preceding are placed near *TRICHIURUS*.

Melanictis, 92.

Epimonus, 92, "sp. do."

That is, of *BALISTES*, doubtless intended for *MONACANTHUS*.

Lophidius, 92.

Variant of *LOPHIUS*.

Chironectes, "R", 92, "sp. do."

Of *LOPHIUS*.

Conomus, 92, "sp. do."

Of *LOPHIUS*.

Branderius, 93.

Substitute for *CÆCILIA* Lacepède, a synonym of *SPHAGEBRANCHUS* Bloch.

Anopsus, 93.

Substitute for *MURÆNOBLENNA* Lacepède.

Gymnopsis, 93.

Substitute for *GYMNOMURÆNA* Lacepède.

Helmictis, 93.

Rincoxis, 93.

Zebricium, 93.

Pterurus, 93.

Sphyrnias, 93.

Variant of *SPHYRNA* Rafinesque.

Platopterus, 93.

Substitute for *RAJA* L.

Epinotus, 93.

Lymnea, 93.

Podoleptus, 93.

Substitute for *LEPTOPUS* Rafinesque, 1814. A synonym of *LOPHIOTES* Giorna.

Megaderus, 93.

Substitute for *ECHIDNA* Forster.

Ictætus, 93.

Sephenia, 93.

Megabatus, 93.

Apturus, 93.

Lampreda, 94, "sp. do."

OF PETROMYZON.

Pricus, 94, "sp. do."

OF PETROMYZON. This and the preceding doubtless equivalent to *AMMO-CETES* Duméril and *LAMPETRA* Gray, the former based on the larval state of lampreys.

LXXXVI. CUVIER, *Observations et Recherches Critiques sur differens Poissons de la Méditerranée, et à leur Occasion sur des Poissons d'autres mers plus ou moins Liés avec Eux*: Mémoires du Museum d'Histoire Naturelle, Paris, I, 1815.

GEORGES LÉOPOLD CHRÉTIEN FRÉDÉRIC DAGOBERT CUVIER.

Glossodus Cuvier, I, 1815; type *ARGENTINA GLOSSODONTA* Forskål.

Same as *ALBULA* Gronow, *BUTVRINUS* Lacepède.

Fierasfer Cuvier, I, 119, 312, 359, 1815; type *OPIHIDION IMBERBE* L.

Same as *CARAPUS* Rafinesque. (Name in French only; dates from Oken, 1817.)

Xyrichthys Cuvier, I, 317, 329, 355, 1815; type *XYRICHTHYS CULTRATUS* Cuvier (*CORYPHÆNA NOVACULA* L.).

Epibulus Cuvier, I, 111; type *SPARUS INSIDIATOR* Pallas.

Smaris Cuvier, I, 111; type *SPARUS SMARIS* L.

Myletes Cuvier, I, 115; type *MYLETES RHOMBODALIS* Cuv.

Saurus Cuvier, I, 115; type *SALMO SAURUS* L.

Chromis Cuvier, 393; type *SPARUS CHROMIS* L.

Monotypic. Same as *HELIASES* Cuvier, 1817.

Crenilabrus Cuvier, 357; type *LABRUS LAPINA* Forskål (Les Crénilabres).

Bonaparte, in 1839, named as type *C. PAVO*, which is the same as *C. LAPINA*. Name in French only, dates from Oken, 1817.

Corycus Cuvier, 359; type (not otherwise named) *LUTIANUS ROSTRATUS* Bloch.

Based on "les deux derniers Lutjans de M. Risso." Called *CORICUS* by Cuvier in 1817. A synonym of *SYMPHODUS* Rafinesque.

Tetragonopterus Cuvier, I, 114; type *T. ARGENTEUS* Cuvier.

Les Serrans Cuvier.

This is not a scientific name. Reference is made to *ANTHIAS SACER* Bloch.

DiaCOPE Cuvier, 360; type *HOLOCENTRUS BENGALENSIS* Bloch.

Name preoccupied, replaced by *GENYOROGA* Cantor, 1850.

Diagramma Cuvier, 360; type *ANTHIAS DIAGRAMMA* Bloch.

A synonym of *PLECTORHINCHUS* Lacepède.

Scolopsis Cuvier, 361; type the *CURITE* of Russell (*SCOLOPSIS CURITE* Cuvier).**Les Priacanthes** Cuvier, 361; type *ANTHIAS MACROPHITHALMUS* Bloch.

First called *PRIACANTHUS* by Cuvier in 1817.

Les Pristipomes Cuvier, 361; type *LUTIANUS HASTA* Bloch.

Called *PRISTIPOMUS* by Oken in 1817. A synonym of *POMADASYs* Lacepède.

Julis Cuvier, 362; type *LABRUS JULIS* L.

By tautonomy and by first restriction.

Boops Cuvier, 453; type *SPARUS BOOPS* L.

By tautonomy. Later called *Box* Cuvier.

The genus *SPARUS* L. is divided into *Sargues*, *SPARUS SARGUS* L.; *Daurades*, *SPARUS AURATA* L.; and *Pagres*, *SPARUS PAGRUS* L. No Latin names are indicated and no type assigned to *SPARUS* L. "Les Canthères" is a name assigned (p. 485) to *SPARUS CANTHARUS* L.

Dentex Cuvier, 486; type *SPARUS DENTEX* L.

By tautonomy,

Les Melettes, 457; type *CLUPEA BRÜNNICHI* Gmelin.

This group is equivalent to *ENGRAULIS* Cuvier, 1817. No Latin name is assigned.

On page 14 of this volume the name *SCIÆNA UMBRA* L., originally based on two species (the "Maigre" and the "Corb," confounded by Linnæus), is definitely restricted to the first of these, the *CHEILODIPTERUS AQUILA* of Lacepède. This species then becomes the type of *SCIÆNA*, replacing *ARGYROSOMUS DE LA PYLAIE* and *PSEUDOSCIÆNA* Bleeker. The "Corb" remains as *CORVINA NIGRA* (Bloch).

LXXXVII. BLAINVILLE, *Prodrome d'Une Nouvelle Distribution Systématique du Règne Animal*: *Bullétin de la Société Philomatique*, 1816.

HENRI MARIE DUCROTAY DE BLAINVILLE.

Descriptions of the genera indicated appeared also in the *Fauna Française*, 1820-1830.

The pagination as here given is taken from Garman, *Plagiostamia*, 1913.

Trygonobatus Blainville, 112; type *RAIA PASTINACA* L.

Equivalent to *DASYATIS* Rafinesque.

Aetöbatus Blainville, 112; type *RAJA NARINARI* Euphrasen.

As restricted by Müller & Henle, 1838; not as restricted by Cantor, 1850. The latter arrangement would accord better with Blainville's obvious purpose of making *RAJA AQUILA* his "*AETOBATIS VULGARIS*," the best known of these "raies aigles," his type. The first restriction, however, has the sanction of Agassiz, Günther, and Gill.

Dicerobatus Blainville, 116; type *RAJA MOBULAR* Lacepède.

A synonym of *MOBULA* Rafinesque. Monotypic.

Leiobatus Blainville, 121, "Raies lisses"; type *LEIOBATUS SLOANI* Blainville.

A species of *UROTRYGON*. Not *LEIOBATUS* Rafinesque, which is *RHINOBATUS*; nor *LEIOBATUS* Klein, a synonym of *RAJA*.

Narcobatus Blainville, 121; type *RAJA TORPEDO* L.

Scylliorhinus Blainville, 121, "*SQUALES ROUSSETTES*"; type *SQUALUS CANICULA* Lacepède.

As restricted. Prior to *SCYLLIUM* Cuvier.

Cestrorhinus Blainville, 121; type *SQUALUS ZYGÆNA* L.

A synonym of *CESTRACION* Klein and *SPHYRNA* Rafinesque.

Monopterhinus Blainville, 121, "squales à une seule pinnule dorsale"; type *SQUALUS GRISEUS* Gmelin.

A synonym of *HEXANCHUS* Rafinesque. Monotypic.

Acanthorhinus Blainville, 121, "squales épineux"; type *SQUALUS ACANTHIAS* Lacepède.

Equivalent to *SQUALUS* L. as restricted by Rafinesque and by Gill.

Heterodontus Blainville, 121; type *SQUALUS PHILIPPI* Lacepède.

The name seems sufficiently different from *HETERODON*, a genus of snakes of prior date, although from identical Greek roots. Otherwise would stand as *CENTRACION* Gray. Monotypic.

Cetorhinus Blainville, 121; type *SQUALUS MAXIMUS* Gunner.

Monotypic.

Galeorhinus Blainville, 121, "Squales demi-Requins"; type *SQUALUS CANIS* L.

As restricted by Gill, 1864; *SQUALUS MUSTELUS* as restricted by Garman, 1913. The former arrangement must hold, replacing *EUGALEUS* Gill.

Carcharhinus Blainville, 121; type *SQUALUS COMMERSONIANUS* Blainville.

As restricted by authors.

Echinorhinus Blainville, 121, "Squales bouclés"; type *SQUALUS SPINOSUS* Gmelin.

Monotypic.

LXXXVIII. CUVIER, *Sur le genre* CHIRONECTES Cuv. (ANTENNARIUS Commerson): Mém. du Mus., III, 1817.

GEORGES CUVIER.

Chironectes Cuvier, 418; type LOPHIUS COMMERSONIANUS Lacepède.

LXXXIX. CUVIER, HYDROCYON, CHALCEUS etc.: Mémoires du Muséum, IV, 1817; V, 1819.

Hydrocyon Cuvier, V, 353, 1819; type HYDROCYON FORSKALI Cuvier ("Les Hydrocyns," I, 115).

Myletes Cuvier, IV, 449, 1817; type MYLETES RHOMBOIDALIS Cuvier.

Tetragonopterus (Artedi) Cuvier, IV, 455, 1817; type TETRAGONOPTERUS ARGENTEUS Cuvier.

Chalceus Cuvier, IV, pl. XXI, 1817, V, 351; type CHALCEUS MACROLEPIDOTUS Cuvier.

XC. LE SUEUR, *A new genus of Fishes proposed under the name of* CATOSTOMUS: Journ. Acad. Nat. Sci. Phila., I, 1817.

CHARLES A. LE SUEUR.

Catostomus Le Sueur, 88; type CYPRINUS CATOSTOMUS Forster (CATOSTOMUS HUDSONIUS Le Sueur).

XCI. CUVIER, *Règne Animal*, Ed. 1, 1817. *Le Règne Animal Distribué d'Après son Organisation*. Tome II, 1817 (Reptiles, Fishes, etc.).

GEORGES CUVIER.

This epoch-making work marks the advent of the modern epoch in zoological taxonomy. The entire animal kingdom is considered, its families and genera are all defined, and the entire system is placed on the sound basis of comparative anatomy.

In a number of cases the genera in this work receive French names only. But to all these, Latin forms were immediately supplied in the same year, 1817, by Oken, in the *Isis*.

Ammocoetes (Duméril) Cuvier, 119; type *PETROMYZON BRANCHIALIS* L.

The larval form of *PETROMYZON* and *LAMPETRA*.

Scyllium Cuvier, 124; type *SQUALUS CANICULA* L.

As restricted. A synonym of *SCYLLIORHINUS* Blainville, 1816.

Carcharias Cuvier, 125; type *SQUALUS CARCHARIAS*.

As shown in the figure of Bélon, 60. "Cette figure de Bélon est la seule bonne. La plupart des autres sont fausses." Equivalent to *CARCHARIINUS* Blainville. Not *CARCHARIAS* Rafinesque, 1810.

Lamna Cuvier, 126; type *SQUALUS CORNUBICUS* Bloch & Schneider (*SQUALUS NASUS* Bonnaterre).

Zygæna Cuvier, 127; type *SQUALUS ZYGÆNA* L.

Equivalent to *CESTRACION* Klein, *SPHYRNA* Rafinesque.

Galeus Cuvier, 127; type *SQUALUS GALEUS* L.

Not *GALEUS* Valmont, nor of Klein, nor of Rafinesque. Equivalent to *GALEORHINUS* Blainville. Monotypic.

Mustelus Cuvier, 128; type *SQUALUS MUSTELUS* L.

Equivalent to *MUSTELUS* Linck.

Notidanus Cuvier, 128; type *SQUALUS GRISEUS* L.

Monotypic. Equivalent to *HEXANCHUS* Rafinesque, 1810.

Selache Cuvier, 129; type *SQUALUS MAXIMUS* L.

Equivalent to *CETORHINUS* Blainville, 1816. Monotypic.

Cestracion Cuvier in Oken, 129, ("Les Cestracions" Cuvier); Oken,*

Isis, 1183; type *SQUALUS PHILIPPI* Bloch & Schneider.

Equivalent to *HETERODONTUS* Blainville, 1816. Not *CESTRACION* Klein.

Spinax Cuvier, 129; type *SQUALUS SPINAX* L.

Equivalent to *ETMOPTERUS* Rafinesque, 1810.

Centrina Cuvier, 130; type *SQUALUS CENTRINA* L.

Equivalent to *OXYNOTUS* Rafinesque, 1810.

Scymnus Cuvier, 130; type *SQUALUS AMERICANUS* Gmelin.

Monotypic. Preoccupied by *SCYMNUS* Kugelman, 1814, a genus of Beetles; replaced by *SCYMNORHINUS* Bonaparte, 1846.

DALATIAS Rafinesque may be the same.

*Oken, *Isis*, 1817. In *Isis*, 1817, immediately following the publication of the *Règne Animal*, Professor L. Oken recapitulated the genera of Cuvier, giving Latin forms to those left by the author with French names only. These occur on pages 1181, 1182, and 1183 (misprinted in the text as 1781, 1782, and 1783). Several of these were also Latinized by Cloquet, *Dictionnaire d'Histoire Naturelle*, in 1817, but the date of Oken is earlier. Still others were Latinized by John Stark, *Elements of Natural History*, Edinburgh, 1828, vol. 1.

As the question of priority is not affected, we leave the names of Cuvier latinized by Oken in their proper sequence.

Trygon Adanson in Cuvier, 136; type *RAJA PASTINACA* L.

This name, quoted from Adanson's Manuscript *Cours d'Histoire Naturelle*, in 1772, has been adopted by several authors. *TRYGON* appears also as a new genus (equivalent to *TÆNIURA*) of Geoffroy St. Hilaire in the *Histoire d'Égypte*, with the date of 1825. The name is certainly later than *DASYBATUS* of Klein, with the same type, and also later than *DASYATIS* Rafinesque.

Callorhynchus (Gronow) Cuvier, 140; type *CHIMÆRA CALLORHYNCHUS* L.

Monacanthus (Cuvier) Oken, 152, ("Les Monacanthes" Cuvier); type *BALISTES CHINENSIS* Bloch.

Alutera (Cuvier) Oken, 153, ("Les Alutères" Cuvier); type *BALISTES MONOCEROS* L.

Triacanthus (Cuvier) Oken, 153, ("Les Triacanthes" Cuvier); type *BALISTES BIACULEATUS* Bloch.

Monotypic.

Hippocampus Cuvier, 157; type *SYNGNATHUS HIPPOCAMPUS* L.
Equivalent to *HIPPOCAMPUS* Rafinesque.

Characinus Cuvier, 164; no type named.
Equivalent to *CHARACINI* L., *CHARAX* Gronow.

Curimatus (Cuvier) Oken, 165, ("Les Curimates" Cuvier); type *SALMO EDENTULUS* Bloch (*SALMO CYPRINOIDES* L.).

Name latinized as *CURIMATUS* Oken, 1182, as *CURIMATA* by Cloquet. Equivalent to *CURIMATA* Walbaum, 1792.

Anostomus (Gronow) Cuvier, 165; type *SALMO ANOSTOMUS* L.
Called *LEPORINUS* by Cuvier & Valenciennes.

Piabucus (Cuvier) Oken, 166, ("Les Piabuques" Cuvier); type *SALMO ARGENTINUS* Bloch.

Latinized as *PIABUCUS* by Oken, as *PIABUCA* by Müller & Tröschel.

Citharinus Cuvier, 168; type "*LE SERRASALME CITHARINE*" Geoffroy.
CYTHARINUS Oken, 1182, ("Les Citharines" Cuvier, 1815, I. 115).

Saurus Cuvier, 169; type *SALMO SAURUS* L.

Scopelus Cuvier, 169; type *GASTEROPELECUS HUMBOLDTI* Risso.
Equivalent to *MYCTOPHIUM* Rafinesque, 1810.

Aulopus Cuvier, 170; type *SALMO FILAMENTOSUS* Bloch.

Engraulis Cuvier, 174; type *CLUPEA ENCRASICHOLUS* L.

Thrissa Cuvier, 176; type *CLUPEA SETIROSTRIS* Broussonet.

Equivalent to *MYSTUS* Lacepède, preoccupied. Not *THRISSA* Rafinesque. Later spelled *THRYSSA* by Cuvier.

This genus or subgenus may receive a new name, *THRISOCLES* Jordan & Evermann, type *CLUPEA SETIROSTRIS* Broussonet. It is distinguished from *MENIDIA* Browne or *ANCHOVELLA* Fowler, by the greatly prolonged maxillary.

Pristigaster Cuvier, 176; type not named.

Later fixed as *PRISTIGASTER CAYANUS* Cuvier.

Chirocentrus Cuvier, 178; type *ESOX CHIROCENTRUS* L. (*CLUPEA DORAB* Gmelin).

Sudis Cuvier, 180; type (not named) *SUDIS GIGAS* Cuvier.

Equivalent to *ARAPAIMA* Muller and Troschel, 1846 (*VASTRES* Valenciennes, 1846).

Not *SUDIS* Rafinesque, 1810.

Galaxias Cuvier, 183; type *ESOX TRUTTACEUS* Cuvier.

Monotypic.

Microstoma Cuvier, 184; type *GASTEROPELECUS MICROSTOMUS* Risso.

Monotypic.

Stomias Cuvier, 184; type *ESOX BOA* Risso.

Monotypic.

Salanx Cuvier, 185; type (not named) *SALANX REEVESI* Cuv. & Val. (*ALBULA CHINENSIS* Osbeck).

Monotypic. Synonym of *ALBULA* Osbeck, if the latter name is regarded as eligible.

Belone Cuvier, 185; type *ESOX BELONE* L.

Hemi-Ramphus Cuvier, 186; type *ESOX BRASILIENSIS* L.

Barbus Cuvier, 192; type *CYPRINUS BARBUS* L.

Gobio Cuvier, 193; type *CYPRINUS GOBIO* L.

Not *GOBIO* of Klein, which is identical with *GOBIUS* L. If Klein's names are accepted, *GOBIO* Cuvier, based on the common gudgeon of Europe, *CYPRINUS GOBIO* L., must receive a new name.

Tinca Cuvier, 193; type *CYPRINUS TINCA* L.

Cirrhinus (Cuvier) Oken, 193, ("Les Cirrhines" Cuvier); type *CYPRINUS CIRRHOSUS* Bloch.

The name is spelled *CIRRHINA* by Valenciennes.

Abramis Cuvier, 194; type *CYPRINUS BRAMA* L.

Equivalent to *BRAMA* Klein, not of Cuvier.

Labeo Cuvier, 194; type *CYPRINUS NILOTICUS* (Forskål) Geoffroy.

Not *LABEO* Bowdich, 1825.

Leuciscus (Klein) Cuvier, 194; type *CYPRINUS LEUCISCUS* (L.) Bloch.

Identical with *LEUCISCUS* Klein.

Lebia (Cuvier) Oken, 199, ("Les Lebias" Cuvier), Oken, *Isis*, 1183; type *CYPRINODON VARIEGATUS* Lacepède.

Monotypic. Identical with *CYPRINODON* Lacepède, 1803. Written *LEBIAS* by Cuvier.

Schilbe (Cuvier) Oken, 202, ("Les Schilbe" Cuvier), Oken, *Isis*, 1182; type *SILURUS MYSTUS* Hasselquist.

Synodontis Cuvier, 203; type *PIMELODUS SYNODONTIS* Geoffroy.

Bagre (Cuvier) Oken, 204, ("Les Bagres" Cuvier), Oken, *Isis*, 1182; type *SILURUS BAGRE* L.

By tautonomy. Latinized as *BAGRUS* by Valenciennes. This generic name must replace *FELICHTHYS* Swainson and *AILURICHTHYS* Baird, for the Gaff-top-sail Cat-fish *FELICHTHYS MARINUS* (L), of American waters, unless the earlier name *BAGRE* of Catesby, applied to another genus, be deemed eligible. The name *BAGRUS*, transferred by Cuvier & Valenciennes to another part of the same group of "Bagres," may be replaced by *PORCUS* Geoffroy, 1817, as *BAGRUS* is only a variant spelling of *BAGRE*.

Morrhua (Cuvier) Oken, ("Les Morues"), 212, 1182; type *GADUS MORRHUA* L.

Same as *GADUS* L.

Merlangus (Cuvier) Oken, ("Les Merlans"), 213, 1182; type *GADUS MERLANGUS* L.

Not *MERLANGUS* Rafinesque, 1810.

Lota (Cuvier), ("Les Lottes") Oken, 215, 1182; type *GADUS LOTA* Bloch.

By tautonomy.

Mustela (Cuvier), ("Les Mustèles") Oken, 215, 1182; type *GADUS MUSTELA* L.

Preoccupied in Mammals: replaced by *MOTELLA* Cuvier, 1829. Synonym of *GAIDROPSARUS* Raf.

Brosme (Cuvier), ("Les Brosmes") Oken, 216, 1182; type *GADUS BROSME* Gmelin.

Called *BROSMIUS* by Cuvier, 1829.

Raniceps (Cuvier) Oken, 217, ("Les Raniceps" Cuvier), Oken, 1182; type *GADUS RANINUS* Müller.

Platessa Cuvier, 220; type *PLEURONECTES PLATESSA* L.

Equivalent to *PLEURONECTES* as restricted by Fleming.

Hippoglossus Cuvier, 221; type *PLEURONECTES HIPPOGLOSSUS* L.

Rhombus Cuvier, 222; type *PLEURONECTES RHOMBUS* Cuvier.

Equivalent to *RHOMBUS* Klein, not of Lacépède. Name used in Mollusks, *RHOMBUS* Da Costa, 1776. Same as *BOTHUS* Rafinesque.

Solea Cuvier, 223; type *PLEURONECTES SOLEA* L.

Equivalent to *SOLEA* Quensel and *SOLEA* Rafinesque.

Monochirus (Cuvier) Oken, 223, ("Les Monochires" Cuvier), *MONOCHIRUS* Oken, 1182; type *PLEURONECTES MICROCHIRUS* De la Roche.

Monotypic. Equivalent to Rafinesque.

Plagusia (Browne) Cuvier, 224; type *PLEURONECTES PLAGUSIA* L.

Equivalent to *PLAGUSIA* Browne, not of Latreille, 1806, a genus of CRUSTACEANS.

Lumpus (Cuvier) Oken, 226, ("Les Lumps" Cuvier) Oken, 1182; type *CYCLOPTERUS LUMPUS* L.

Equivalent to *CYCLOPTERUS* L.

Conger (Cuvier) Oken, 231, ("Les Congres" Cuvier), Oken, 1182; type *MURÆNA CONGER* L.

Equivalent to *CONGER* Houttuyn.

Alabes (Cuvier) Oken, 235, ("Les Alabes" Cuvier), Oken, 1182; type (not named) *CHEILOBRANCHIUS DORSALIS* Richardson.

Said to be identical with *CHEILOBRANCHIUS* Richardson, 1848, which it replaces.

Carapus Cuvier, 237; type *GYMNOTUS MACROURUS* Bloch.

Not *CARAPUS* Rafinesque, 1810. The name is written *CARAPO* by Oken. Replaced by *GITON* Kaup.

Fierasfer (Cuvier) Oken, 239, ("Les Fierasfers" Cuvier) Oken, 1182; type *OPHIIDIUM IMBERBE* L.

Equivalent to *CARAPUS* Rafinesque, 1810. Monotypic.

Lophotes (Giorna) Cuvier, 243, ("Les Lophotes" Cuvier), the name written *LOPHOTUS* by Oken, 1182; type "le Lophote Lacepède" Giorna (*LOPHOTES CEPEDIANUS*).

Monotypic.

Clinus Cuvier, 251; type *BLENNIUS SUPERCILIOSUS* L.

Pholis (Artedi) Cuvier, 251; type *BLENNIUS PHOLIS* Bloch.

Not *PHOLIS* Gronow.

Salarias Cuvier, 251; type *SALARIAS QUADRIPENNIS* Cuvier.

Opistognathus (Cuvier) Oken, 252, ("Les Opisthognathes" Cuvier), Oken, 1182; type *OPISTHOGNATHUS SONNERATI* Cuvier.

Monotypic.

Sillago Cuvier, 258; type *SILLAGO ACUTA* Cuvier.

Julis Cuvier, 261; type *LABRUS JULIS* L.

This name has been unfortunately transferred by later writers to a great group of the tropical seas, *THALASSOMA* Swainson.

Crenilabrus Cuvier, 262, ("Les Crenilabres" Cuvier), Oken, 1182; type *LABRUS LAPINA* Forskål.

Valenciennes makes the type *LABRUS PAVO* Risso; but that species is not mentioned by Cuvier, although identical with *L. LAPINA*.

Bonaparte, in 1839, named as type *C. PAVO*, which is the same as *C. LAPINA*. In 1839, just previous, Swainson observes: "M. Cuvier having expressly stated

that the type of his genus *CRENILABRUS* is the *LUTJANUS VERRES* of Bloch, I have so retained it, placing all the others under the subgenus *CYNÆDUS*."

L. VERRES is identical with the type of *BODIANUS* Bloch. We find no such statement in Cuvier's writings, and *L. VERRES* is ninth of his original species. *CYNÆDUS* Swainson, as restricted by Bonaparte, is identical with *CTENOLABRUS* Cuv. & Val.

In the *Fauna Italica*, 156, 1839, Bonaparte assigned types to certain genera of Labroid fishes. *LABRUS GUTTATUS* Bloch was indicated as type of *HEMIULIS* Swainson; *LABRUS VETULUS* Bloch is considered as type of *LABRUS* L. This name, *VETULUS*, was not used by Linnæus, but it is a synonym of *LABRUS BIMACULATUS* L. and *LABRUS MIXTUS* L. *LABRUS BIMACULATUS* may thus be regarded as the type of *LABRUS*. *LABRUS RUPESTRIS* Bloch is indicated as type of *CYNÆDUS* Swainson. This becomes a synonym of *CTENOLABRUS* Cuv. & Val., of a little earlier date in 1839. *LABRUS PAVO* of authors, not of Linnæus, is recognized by Bonaparte as type of *CRENILABRUS*. This species is not named by Cuvier, but it is identical with *LABRUS LAPINA* Forskål, a species included by Cuvier. In Swain's excellent review of Swainson (1882) the type of each genus is indicated. The type of *HEMIULIS* (*AURATUS*) assigned by Swain is a species of *CHEILIO* Lacepède. The type of *CYNÆDUS* is *C. TINCA* = *C. DODERLEINI* Jordan, not *LABRUS TINCA* L., a species of *CRENILABRUS*. Bonaparte's selection of types has, however, priority over Swain's. Bonaparte and Swainson recognize *LABRUS JULIS* L. as type of *JULIS*. The same type, as *LABRUS PAVO* Hasselquist, is assigned to *CHLORICHTHYS* Swainson by Bonaparte. Swain makes the latter a synonym of *THALASSOMA* Swainson. Bonaparte, 1846, selected *L. JULIS* L. as type of *ICHTHYCALLUS* Swainson, reducing both *CHLORICHTHYS* and *ICHTHYCALLUS* to the synonymy of *JULIS*.

Coricus Cuvier, 263; type *LUTIANUS VIRESCENS* Risso (*L. ROSTRATUS* Bloch).

Equivalent to *SYMPHODUS* Rafinesque.

Epibulus Cuvier, 264; type *SPARUS INSIDIATOR* Pallas.

Monotypic.

Novacula Cuvier, 265; type *CORYPILÆNA NOVACULA* L.

By tautonymy. Afterwards restricted by Cuvier & Valenciennes to *CORYPILÆNA PENTADACTYLA* Lacepède, the genus *HEMIPTERONOTUS* Lacepède.

A synonym of *XYRICHTHYS* Cuvier, 1815.

Chromis (Cuvier) Oken, 266, ("Les Chromis" Cuvier), Oken, 1182; type *SPARUS CHROMIS* Lacepède.

Not *CROMIS* Browne, 1770, nor *CHROMIS* Cuvier, 1815. Called *HELIASES* by Cuvier & Valenciennes.

Plesiops (Cuvier) Oken, 266; type not named.

Afterwards described as *PLESIOPS NIGRICANS* Rüppell. Equivalent to *PIAROP-TERYX* Rüppell, 1828.

Smaris Cuvier, 269; type *SPARUS SMARIS* L.

A synonym of *SPICARA* Rafinesque.

Boops Cuvier, 270; type *SPARUS BOOPS* L.

Later called *Box* Cuv. & Val.

Sargus Cuvier, 272; type *SPARUS SARGUS* L.

Equivalent to *SARGUS* Klein and *DIPLODUS* Rafinesque

Aurata (Cuvier) Oken, 272, ("Les Daurades" Cuvier), Oken, 1183; type *SPARUS AURATA* L.

Equivalent to *SPARUS* L., as restricted by Fleming. Later called *CHRYSOPIRYS* by Cuvier.

Pagrus Cuvier, 272; type *SPARUS ARGENTEUS* Bloch & Schneider (*SPARUS PAGRUS* L.).

Not *PAGRUS* Plumier.

Dentex Cuvier, 273; type *SPARUS DENTEX* L.

Diacope Cuvier, 275; type *DIACOPE SEBÆ* Cuvier.

Name preoccupied in butterflies (*DIACOPE* Hubner, 1816); replaced by *GENYORGE* Cantor, 1850. Equivalent to *NAQUA* Forskål, 1775, a name doubtfully eligible.

Serranus Cuvier, 276, ("Perche de mer ou serran"); type *PERCA CABRILLA* L. ("le Serran proprement dit").

SERRANUS CABRILLA is usually assumed as the type of the genus *SERRANUS*, and therefore of the family *SERRANIDÆ*. But no species of the genus as thus restricted is mentioned by Cuvier by scientific name. Cuvier, however, remarks: "La Méditerranée en produit beaucoup dont les plus communs s'y confondent sous les noms vulgaires de PERCHE DE MER, de SERRAN, etc." This refers to *SERRANUS CABRILLA* and *SERRANUS SCRIBA*. The first of these may be retained as type, following general custom, although its scientific name is not mentioned. Otherwise *HOLOCENTRUS GIGAS* Bloch & Schneider, which is explicitly mentioned, must be taken, in which case *SERRANUS* disappears, as a synonym of *EPINEPHILUS* Bloch, and the name *SERRANELLUS* Jordan & Eigenmann, a sub-generic term for *SERRANUS SCRIBA*, would stand for the genus, as in Fowler's arrangement (Proc. Ac. Nat. Sci. Phila., 1907, 266).

Plectropomus (Cuvier) Oken, 277, ("Les Plectropomes" Cuvier), *PLECTROPOMUS* Oken, 1182, *PLECTROPOMA* of Cuv. & Val.; type as restricted *BODIANUS MACULATUS* Bloch.

Cantharus Cuvier, 278; type *SPARUS CANTHARUS* L. ("Les Canthares," 1815.)

Name preoccupied; replaced by *SPONDYLIOSOMA* Cantor, 1850.

Pristipomus (Cuvier) Oken, 279, ("Les Pristipomes" Cuvier), Oken, 1182, (*PRISTIPOMA* of Cuvier & Valenciennes); type *LUTJANUS HASTA* Bloch.

Equivalent to *POMADASYS* Lacépède.

Scolopsis Cuvier, 280; type "le Kurite, Russell" (*SCOLOPSIDES KURITA* Cuv. & Val.).

Called *SCOLOPSIDES* by Cuvier.

Diagramma (Cuvier) Oken, 280, ("Les Diagrammes" Cuvier), Oken, 1183; type *ANTHIAS DIAGRAMMA* Bloch.

Equivalent to *PLECTORHYNCHUS* Lacépède.

Priacanthus (Cuvier) Oken, 281, ("Les Priacanthes" Cuvier), Oken, 1183; type *ANTHIAS MACROPHthalmus* Bloch.

Equivalent to *ABUHAMRUR* Forskål, a name doubtfully eligible.

Polyprion (Cuvier) Oken, 282, ("Les Polyprions" Cuvier), Oken, 1183; type *AMPHIPRION AMERICANUS* Bloch & Schneider.

Acerina Cuvier, 283; type *PERCA ACERINA* Cuvier (*PERCA CERNUA* L.).

Called *CERNUA* by Schæfer and by Fleming, *ACERINA* by Güldenstadt, *PERCIS* by Klein, and *GYMNOCEPHALUS* by Bloch.

Stellifer (Cuvier) Oken, 283, ("Les Stellifères" Cuvier), *STELLIFER* Oken, 1182; type *BODIANUS STELLIFER* Bloch.

Monotypic.

Pterois (Cuvier) Oken, 286, ("Les Pterois" Cuvier), Oken, 1183; type *SCORPÆNA VOLITANS* Bloch.

Equivalent to *PSEUDOPTERUS* Klein, which may not be eligible.

Paralepis Cuvier, 289; type *COREGONUS PARALEPIS* Risso Ms., *PARALEPIS COREGONOIDES* Risso.

Monotypic.

Prochilus Cuvier, 294; type *SCIÆNA MACROLEPIDOTA* Bloch.

Name preoccupied in mammals by *PROCHILUS* Illiger, 1811. Replaced by *DORMITATOR* Gill.

Sander (Cuvier) Oken, 294, ("Les Sandres" Cuvier), *SANDER* Oken, 1182; type *PERCA LUCIOPERCA* L.

Terapon Cuvier, 295; type *HOLOCENTRUS SERVUS* Bloch.

Error for *THERAPON*. Equivalent to *DJABUB* Forskål, which is doubtfully eligible.

Zingel (Cuvier) Oken, 296, ("Les Cingles" Cuvier), *ZINGEL* Oken, 1182; type *PERCA ZINGEL* L., *ASPERULUS* Schæfer.

Umbrina Cuvier, 297; type *SCIÆNA CIRRHOSA* L.

Otolithes (Cuvier) Oken, 299, ("Les Otolithes" Cuvier), *OTOLITHES* Oken, 1182; called *OTOLITHIUS* by Cuvier & Valenciennes; type *JOHNIUS RUBER* Bloch & Schneider.

Anclyodon (Cuvier) Oken, 299, ("Les Ancyloodons" Cuvier), Oken, 1182; type *LONCHURUS ANCYLODON* Bloch & Schneider.

Monotypic. Preoccupied; replaced by *MACRODON* Schinz; *SAGENICHTHYS* Berg, 1895.

Antennarius (Commerson) Cuvier, 310, "Les Chironectes (*ANTENNARIUS* Commerson)" Cuvier; type *LOPHIUS COMMERSONIANUS* Lacepède, *ANTENNARIUS ANTENNA TRICORNE* Commerson, in Lacepède.

Afterwards called *CHIRONECTES* by Cuvier, the name preoccupied.

Malthe Cuvier, 311; type *LOPHIUS VESPERTILIO* L.

Equivalent to *OGCOCEPHALUS* Fischer, 1813.

Thynnus Cuvier, 313; type *SCOMBER THYNNUS* L.

Not *THYNNUS* Browne. The name *THYNNUS* Cuvier is preoccupied, and has been replaced by *THUNNUS* South and later by *ALBACORA* Jordan.

Orcynus Cuvier, 314; type *SCOMBER GERMON* Lacepède (*SCOMBER ALALONGA* Gmelin).

Name preoccupied by *ORCYNUS* Rafinesque, 1810, and replaced by *GERMO* Jordan.

Citula Cuvier, 315; type ("l'espèce est nouvelle") *SCIÆNA ARMATA* Forskål.

Seriola Cuvier, 315; type *CARANX DUMERILI* Risso.

Nomeus Cuvier, 315; type *GOBIOUS GRONOVII* Gmelin.

Monotypic.

Vomer Cuvier, 316; type *VOMER BROWNI* Cuvier.

Equivalent to *RHOMBOIDA* Browne, 1789, which is probably not eligible.

Spinachia Cuvier, 320; type *GASTEROSTEUS SPINACHIA* L.

Monotypic.

Lichia Cuvier, 321; type *SCOMBER AMIA* L.

Blepharis Cuvier, 322; type *ZEUS CILIARIS* Bloch.

Monotypic; name preoccupied, replaced by *BLEPHARICHTHYS* Gill. A synonym of *ALECTIS* Rafinesque.

Equula Cuvier, 323; type *CENTROGASTER EQUULA* Gmelin.

A synonym of *LEIOGNATHUS* Lacepède.

Atropus (Cuvier) Oken, 324, ("Les Atropus" Cuvier), Oken, 1182; type *BRAMA ATROPUS* Bloch & Schneider.

Monotypic. Not separable from *CITULA*.

Oligopodes (Risso) Cuvier, 328, ("Les Leptopodes Cuvier, OLIGOPODES Risso"); type "l'Oligopode noir, Risso."

Described by Risso, 1826, as *OLIGOPUS NIGER*, apparently a species of *PTERACLIS*. Cuvier distinguishes *PTERACLIS* as "Les Oligopodes" and *OLIGOPODES* as "Les Leptopodes."

Chelmon Cuvier, 334; type *CHÆTODON ROSTRATUS* Bloch.

Platax Cuvier, 334; type *CHÆTODON TEIRA* Bloch.

Heniochus Cuvier, 335; type *CHÆTODON MACROLEPIDOTUS* Bloch.

Ephippus Cuvier, 335; type *CHÆTODON ORBIS* Bloch, as restricted by Cuv. & Val., 1831.

Toxotes Cuvier, 338; type *LABRUS JACULATOR* Bloch & Schneider.

Monotypic.

Anabas Cuvier, 339; type *PERCA SCANDENS* Daldorf.

Monotypic.

Fiatola Cuvier, 342; type *STROMATEUS FIATOLA* L.

Equivalent to *STROMATEUS* L.

Seserinus (Cuvier) Oken, 342, ("Les Seserinus" Cuvier); type "SESERINUS Rondelet" (*SESERINUS RONDELETI* Cuvier).

This is apparently a young *STROMATEUS*, *MICROCHIRUS* (Bonelli).

Premnas Cuvier, 345; type *CHÆTODON BIACULEATUS* Bloch.

Monotypic.

Temnodon Cuvier, 346; type *CHEILODIPTERUS HEPTACANTHUS* Lacepède.

Monotypic. Equivalent to *POMATOMUS* Lacepède. The name *POMATOMUS* was arbitrarily transferred to a different genus (*EPIGONUS* Raf.) by Cuvier.

Amphisile (Klein) Cuvier, 350; type *CENTRISCUS SCUTATUS* L.

Equivalent to *CENTRISCUS* L. and *AMPHISILEN* Klein.

XCII. OKEN, *Isis*, 1817.

L. OKEN.

On pages 1182-83 (misprinted 1782-83), Professor Oken gives Latin equivalents to all the French names in the first edition of the *Règne Animal* of Cuvier, as indicated above.

XCIII. CLOQUET, *Dictionnaire des Sciences Naturelles de Levrault* (Articles on Fishes), 1816 to 1830.

HIPPOLYTE CLOQUET.

(Latinizes several of Cuvier's names, as previously done by Oken.)

Zingel Cloquet, 1817; "les cingles" Cuvier, called *ZINGEL* by Oken; type *PERCA ZINGEL* L.

Eptatretus (Duméril) Cloquet, XV, 134, 1819; type *GASTROBRANCHIUS DOMBEY* Lacepède.

Replaces *HEPTATREMA* Duméril and *BDELLOSTOMA* Müller.

XCIV. GEOFFROY ST. HILAIRE, *Suite de l'Histoire des Poissons du Nil*, Plates dated 1817, 1818.

ISIDORE GEOFFROY ST. HILAIRE.

Porcus Geoffroy St. Hilaire, 303, 1818; type **SILURUS BAJAD** Forskål.

Equivalent to **BAGRUS** Cuv. & Val. but not to "les Bagres" Cuvier, 1817, **BAGRE** Oken. **PORCUS** should probably replace **BAGRUS**, which is a latinization of **BAGRE**, the vernacular Spanish name for the larger cat-fishes.

Heterobranchus Geoffroy St. Hilaire, 305, 1818; type **HETEROBRANCHIUS BIDORSALIS** Geoffroy St. Hilaire.

XCV. LE SUEUR, *Description of Several New Species of North American Fishes*: Jour. Ac. Nat. Sci. Phila., 1818.

CHARLES A. LE SUEUR.

Somniosus Le Sueur, 222; type **SOMNIOSUS BREVIPINNA** Le Sueur, **SQUALUS MICROCEPHALUS** Bloch & Schneider.

Platirostra Le Sueur, 223; type **PLATIROSTRA EDENTULA** Le Sueur.
Same as **POLYODON**.

Hiodon Le Sueur, 366; type **HIODON TERGISUS** Le Sueur.
Often spelled **HYODON**.

XCVI. RANZANI, *Descrizione di un Pesce, un Nuovo Genere dei Tanioidei*: Opusculo Sci. Bologna, II, 1818.

CAMILLO RANZANI.

Epidesmus Ranzani, 133; type **EPIDESMUS MACULATUS** Ranzani.
Synonym of **REGALECUS**.

XCVII. BLAINVILLE, *Poissons Fossiles*: Nouveau Dictionnaire, XXVII, 1818.

HENRI MARIE DUCROTAY DE BLAINVILLE.

Not seen by us.

Anenchelum Blainville; type **ANENCHELUM GLARISIANUM** Blainville
(fossil: **LEPIDODIPÆ**).

Chirurgus Blainville; type (perhaps *CILÆTODON CHIRURGUS* Bloch).

Not seen by us: probably a synonym of *HEPATUS* and *TEUTHIS*.

Palæoniscum Blainville, 320; type *PALÆONISCUM FRIESLEBENENSE* Blainville (fossil).

Written *PALÆONISCUS* by Agassiz.

Palæothrissum Blainville, 320; type *PALÆOTHRISSUM MACROCEPHALUM* Blainville (fossil).

Synonym of *PALÆONISCUM*.

Palæorhynchum Blainville, XXVII, 314, 1818; type *PALÆORHYNCHUM GLARISIANUM* Blainville.

Palæobalistum Blainville, 338; type *DIODON ORBICULARIS* Volta (fossil).

XCVIII. *RAFINESQUE, Description of two new Genera of North American Fishes*, *OPSANUS* and *NOTROPIS*: *American Monthly Magazine and Critical Review*, January 1818.

CONSTANTINE SAMUEL RAFINESQUE.

Opsanus Rafinesque, 203; type *OPSANUS CERAPALUS* Raf. (*GADUS TAU* L.).

This genus has been usually and wrongly called *BATRACHUS*.

Notropis Rafinesque, 204; type *NOTROPIS ATHERINOIDES* Raf. (*ALBURNUS RUBELLUS* Agassiz).

XCIX. *RAFINESQUE, Discoveries in Natural History*: *American Monthly Magazine*, September 1818.

Glossodon Rafinesque, 354; type *GLOSSODON HARENGOIDES* Raf. (*HIODON TERGISUS* Le Sueur).

A synonym of *HIODON*, regarded by Rafinesque as too "similar to *DIODON* in sound."

C. *RAFINESQUE, Further Discoveries in Natural History*: *Amer. Monthly Magazine*, October 1818.

Pogostoma Rafinesque, 445; type *POGOSTOMA LEUCOPS* Rafinesque.

A myth drawn by Audubon.

Dinectus Rafinesque, 445; type *DINECTUS TRUNCATUS* Raf.

A mythical sturgeon, drawn by Audubon.

Litholepis Rafinesque, 445; type **LITHIOLEPIS ADAMANTINUS** Raf.

The "Devil-jack Diamond Fish," drawn by Audubon, a mythical gar-pike of which the scales will "turn a rifle ball."

This remarkable paper is based on paintings of fishes "seen down the river" by Audubon. Rafinesque was, in 1818, a guest at Audubon's house at Hendersonville, Kentucky. One night, bats entered the window. Rafinesque was convinced that they were of a new species, and used Audubon's costly violin to beat them down. Audubon in return showed him paintings of remarkable fishes. Rough copies of these are found in Rafinesque's note-books, preserved in the Smithsonian Institution. Their introduction into Science was a practical joke on the part of the great ornithologist.

Rafinesque also mentions as new genera, by name only, without explanation: **CHEILORUS**, **MINICULUS**, **OPLECTIS**, **LEPTOSOMA** and **GLANIS**. These can have no place in the system.

CI. **RAFINESQUE**, *Description of Three New Genera of Fluvatile Fish*, **POMOXIS**, **SARCHIRUS** and **EXOGLOSSUM**: Jour. Ac. Nat. Sci. Phila., November 1818.

Pomoxis Rafinesque, 417; type **POMOXIS ANNULARIS** Raf.

Sarchirus Rafinesque, 419; type **SARCHIRUS VITTATUS** Raf.

Young of **LEPISOSTEUS OSSEUS**.

Exoglossum Rafinesque, 421; type **EXOGLOSSUM ANNULATUM** Raf.
(**CYPRINUS MAXILLINGUA** Le Sueur).

Maxillingua Rafinesque, 421; type **CYPRINUS MAXILLINGUA** Le Sueur.
Same as **EXOGLOSSUM**.

Hypentelium Rafinesque, 421; type **EXOGLOSSUM MACROPTERUM** Raf.
(**CATOSTOMUS NIGRICANS** Le Sueur).

Replaces **HYLOMYZON** Agassiz.

CII. **RAFINESQUE**, *Further account of Discoveries etc.*: Amer. Monthly Magazine, November 1818.

Noturus Rafinesque, 41; type **NOTURUS FLAVUS** Raf.

CIII. RAFINESQUE, *Prodrome de 70 Nouveaux Genres et d'Animaux Découverts dans l'intérieur des États Unis d'Amérique durant l'Année 1818*: Journal de Physique, de Chymie et d'Histoire Naturelle, Paris, June 1819.

Aplodinotus Rafinesque, 419; type **APLODINOTUS GRUNNIENS** Raf.

Spelling corrected by Gill to **HAPLOIDONOTUS**.

Etheostoma Rafinesque, 419; type **ETHEOSTOMA BLENNIOIDES** Raf.

As determined by Agassiz. Later fixed on **ETHEOSTOMA FLABELLARI** Rafinesque by Jordan & Evermann. Replaces **DIPLESION** Rafinesque and **HYOSTOMA** Agassiz.

Leucops Rafinesque, 419; type **POGOSTOMA LEUCOPS** Raf.

A myth of Audubon.

Aplocentrus Rafinesque, 420; type **APLOCENTRUS CALLIOPS** Raf.

Mythical; after Audubon.

Calliurus Rafinesque, 420; type **CALLIURUS PUNCTULATUS** Raf.

A synonym of **MICROPTERUS** Lacepède.

Lepomis Rafinesque, 420; type, as stated by the author, **LABRUS AURITUS** L.

Pomotis Rafinesque, 420; type also stated to be **LABRUS AURITUS** L.

Apomotis Rafinesque, 420; type **LEPOMIS CYANELLUS** Raf.

Notemigonus Rafinesque, 421; type **NOTEMIGONUS AURATUS** Raf. (**CYPRINUS CRYSOLEUCAS** Mitchill).

Amphiodon Rafinesque, 421; **AMPHIODON ALVEOIDES** Raf. (Misprint for **ALOSOIDES**.)

Replaces **ELATTONISTIUS** Gill & Jordan.

Amblodon Rafinesque, 421; type **AMBLODON BUBALUS** Raf.

The "Buffalo-fish," to which the large blunt pharyngeal teeth of **APLODINOTUS** were wrongly ascribed. A complex; the name **AMBLODON** later restricted by Rafinesque to **APLODINOTUS GRUNNIENS**, while the Buffalo-fish became type of **ICTIOBUS** Rafinesque.

Cycleptus Rafinesque, 421; type **CYCLEPTUS NIGRESCENS** (**CATOSTOMUS ELONGATUS** Le Sueur).

Pilodictis Rafinesque, 422; type **PILODICTIS LIMOSUS** Raf.

A myth.

CIV. RAFINESQUE, *Annals of Nature*, I, 1820.

Hemiplus Rafinesque, 6; type **HEMIPLUS LACUSTRIS** Raf. (**CYPRINUS CRYSOLEUCAS** Mitchill).

Same as **NOTEMIGONUS** Rafinesque, 1819.

CV. RAFINESQUE, *Ichthyologia Ohiensis*, 1820.

It was the fortune of Professor Rafinesque to be one of the first to explore two of the richest fish faunas of the world, that of Sicily and that of the Ohio River. His various papers show his peculiar traits, intense activity, keen philosophical insight, and hopeless slovenliness in method.

Stizostedion Rafinesque, 23; type *PERCA SALMONEA* Raf. (*PERCA VITREA* Mitchill).

Lepibema Rafinesque, 23; type *PERCA CHRYSOPS* Raf.

Pomacampsis Rafinesque, 23; type *PERCA NIGROPUNCTATA* Raf.

Mythical, being one of Audubon's practical jokes.

Ichthelis Rafinesque, 27; type *LABRUS AURITUS* L.

A needless substitute for *LEPOMIS*, which is transferred (p. 30) to species of *MICROPTERUS* Lacepède.

Telipomis Rafinesque, 27; type *LEPOMIS CYANELLUS* Raf.

A needless substitute for *APOMOTIS*.

Aplites Rafinesque, 30; type *LEPOMIS PALLIDA* Raf.

A species of *MICROPTERUS*.

Nemocampsis Rafinesque, 30; type *LEPOMIS FLEXUOLARIS* Raf.

A species of *MICROPTERUS*.

Dioplites Rafinesque, 32; type *LEPOMIS NOTATA* Raf.

Also a synonym of *MICROPTERUS*.

Ambloplites Rafinesque, 33; type *LEPOMIS ICHTHIHOIDES* Raf. (*BODIANUS RUPESTRIS* Raf., 1817).

Aplesion Rafinesque, 36; type *ETHEOSTOMA CALLIURA* Raf.

The young of *MICROPTERUS*.

Diplesion Rafinesque, 37; type *ETHEOSTOMA BLENNIOIDES* Raf.

A synonym of *ETHEOSTOMA* Raf. See opinion 14, *Comm. Zool. Nomencl.*

Pomolobus Rafinesque, 38; type *POMOLOBUS CHRYSOCHLORIS* Raf.

Dorosoma Rafinesque, 39; type *DOROSOMA HETERURA* Raf. (*MEGALOPS CEPEDIANA* Le Sueur).

Clodalus Rafinesque, 43; type *HYODON CLODALUS* Le Sueur.

Same as *HYODON*.

Minnilus Rafinesque, 45; type *MINNILUS DINEMUS* Raf.

This is apparently the same as *NOTROPIS* Raf., 1818.

Dobula Rafinesque, 45; type not named (*CYPRINUS DOBULA* L.).

Equivalent to *LEUCISCUS* Cuvier.

Phoxinus Rafinesque, 45; type not named (*CYPRINUS PHOXINUS* L.).

Alburnus Rafinesque, 45; type not named (*CYPRINUS ALBURNUS* L.).

Luxilus Rafinesque, 47; type *LUXILUS CHRYSOCEPHALUS* Raf. (*CYPRINUS CORNUTUS* Mitchill).

Chrosomus Rafinesque, 47; type *CHROSOMUS ERYTHROGASTER* Raf.

Semotilus Rafinesque, 49; type *SEMOTILUS DORSALIS* Raf. (*CYPRINUS ATROMACULATUS* Mitchill).

Rutilus Rafinesque, 50; type *LEUCISCUS RUTILUS* L.

Plargyrus Rafinesque, 50; type *RUTILUS PLARGYRUS* Raf. (*CYPRINUS CORNUTUS* Mitchill).

Pimephales Rafinesque, 52; type *PIMEPHALES PROMELAS* Raf.

Moxostoma Rafinesque, 54; type *CATOSTOMUS ANISURUS* Raf.

Ictiobus Rafinesque, 55; type *CATOSTOMUS BUBALUS* Raf.

Spelled *ICHTHYOBUS* by Agassiz.

The name *AMELODON* was based, in part, on the same species, and may be held as tenable for this genus.

Leptops Rafinesque, 64; type *PIMELODUS VISCOSUS* Raf. (*SILURUS OLIVARIS* Raf.).

Opladelus Rafinesque, 64; type *PIMELODUS NEBULOSUS* Raf. (*SILURUS OLIVARIS* Raf.).

Written *HOPLADELUS* by Gill. A synonym of *LEPTOPS*.

Ameiurus Rafinesque, 65; type *PIMELODUS CUPREUS* Raf. (*PIMELODUS NATALIS* Le Sueur).

Illictis Rafinesque, 66; type *PIMELODUS LIMOSUS* Raf. (*SILURUS OLIVARIS* Raf.).

A synonym of *LEPTOPS*.

Picorellus Rafinesque, 70; type *ESOX VITTATUS* Raf.

A drawing in Rafinesque's note-book shows this to be a mythical species of "pickerei."

Cylindrosteus Rafinesque, 72; type *LEPISOSTEUS PLATOSTOMUS* Raf.

Atractosteus Rafinesque, 75; type *LEPISOSTEUS FERON* Raf.

Sturio Rafinesque, 79; type *ACIPENSER MACULOSUS* Le Sueur.

Carpiodes Rafinesque, 56; type *CATOSTOMUS CYPRINUS* Le Sueur.

As fixed by Jordan & Gilbert, 1883.

Teretulus Rafinesque, 57; type **CATOSTOMUS AUREOLUS** Le Sueur.

As fixed by Jordan, 1877.

Decactylus Rafinesque, 60; type **CATOSTOMUS BOSTONIENSIS** Le Sueur
(**CYPRINUS TERES** Mitchill) as restricted by Jordan.

CATOSTOMUS TERES is probably the tenable name, as the earlier name **COMMERSONI** Lacepède is very doubtful.

Ictalurus Rafinesque, 61; type **SILURUS PUNCTATUS** Raf.

Ellioops Rafinesque, 62; type **PIMELODUS MACULATUS** Raf.

A synonym of **ICTALURUS**.

Eurystomus Rafinesque, 65; type **CATOSTOMUS MEGASTOMUS** Raf.

An Audubonian myth.

Sterletus Rafinesque, 80; type **ACIPENSER SEROTINUS** Raf. (**ACIPENSER RUBICUNDUS** Le Sueur).

Dinectus Rafinesque, 80; type **DINECTUS TRUNCATUS** Raf.

Another of Audubon's mythical paintings, representing, as suggested by Rafinesque, "only a sturgeon incorrectly drawn."

Pegedictis Rafinesque, 85; type **PEGEDICTIS ICTALOPS** Raf.

Apparently a confusion of notes on **CATONOTUS FLABELLARIIS** and **COTTUS RICHARDSONI**. The species is therefore unidentifiable. Best regarded as a synonym of **COTTUS**.

Proceros Rafinesque, 87; type **PROCEROS MACULATUS** Raf.

A myth, not of Audubon but of "Mr. M. of St. Genevieve."

CVI. TILESIIUS, *De Piscium Australium Novo Genere*: Mémoires
Académie Sciences, Petersburg, 1820.

W. G. VON TILESIIUS.

Balistapus Tilesius, 310; type (**BALISTES ACULEATUS** L.).

CVII. RISSO, *Alepocephalus, nouveau Genre de Poissons*: Mémoires
de l'Académie Royale de Turin, XXV, 1820.

ANASTASE RISSO.

Alepocephalus Risso, 262; type **ALEPOCEPHALUS ROSTRATUS** Risso.

CVIII. GOLDFUSS, *Handbuch Zoologie*, II, 1820.*

GEORG AUGUST GOLDFUSS.

Batrachops Goldfuss; type **LOPHIUS COMMERSONIANUS** Lacepède.Substitute for **CHIRONECTES**, preoccupied. Equivalent to **ANTENNARIUS**.CIX. LE SUEUR, *Description of a new Genus and Several New Species of Fresh-Water Fish Indigenous to the United States*: Jour. Ac. Nat. Sci. Phila., II, 1821.

CHARLES A. LE SUEUR.

Mollinesia Le Sueur, 2; type **MOLLINESIA LATIPINNA** Le Sueur.CX. HAMILTON, *An Account of the Fishes found in the River Ganges and its Branches*: Edinburgh, 1822.†

FRANCIS HAMILTON [formerly BUCHANAN].

(Often quoted as FRANCIS HAMILTON-BUCHANAN.)

Callichrous Hamilton, 149; type **SILURUS BIMACULATUS** Bloch.Synonym of **OMPOK** Lacepède.**Cynoglossus** Hamilton, 365; type **CYNOGLOSSUS LINGUA** Hamilton.

Monotypic.

Bola Hamilton, 368; type **BOLA COITOR** Hamilton.

As restricted by Jordan.

Coius Hamilton, 369; type **COIUS COBOJUS** Hamilton (**PERCA SCANDENS** DALDORF).

As here restricted by us.

The first species named, **COIUS VACTI** Hamilton, is **LATES COLONORUM**. The genus **COIUS** is grossly unnatural and is best served by relegation to synonymy.Hamilton observes: "The Cobojus by the natives is considered as the prototype of their genus 'Coi' from which the name **COIUS** is derived."Equivalent to **ANABAS** Cuvier.**Chanda** Hamilton, 370; type **CHIANDA RUCONIUS** Hamilton.The first unquestioned species named. It is a species of **LEIOGNATHUS** Lacepède. The others named belong to **AMBASSIS** Cuvier.* "**ACANTHIOTUS** Goldfuss" quoted by Agassiz (*Nomenclator*) is merely a misprint for **ACANTHIONOTUS**.

† We are indebted to Mr. John Smallwood for the record of the genera of Hamilton.

Sisor Hamilton, 379; type **SISOR RABDOPHORUS** Hamilton.

Monotypic.

Corica Hamilton, 383; type **CORICA COBORNA** Hamilton.

Monotypic. Apparently an ally of **CLUPEOIDES** Bleeker. Not **CORICUS** Cuvier.

Chela Hamilton, 383; type **CYPRINUS CACHIUS** Hamilton.

The first species named; as restricted by Bleeker, 1862. Gunther later restricts it to **C. GORA** Hamilton. Replaces **CACHIA** Günther.

Barilius Hamilton, 384; type by tautonymy **CYPRINUS BARILA** Hamilton.

The first species named.

Bangana Hamilton, 385; type **CYPRINUS DERO** Hamilton.

The first species named; probably replaces **TYLOGNATHUS** Heckel and **LOBOCHEILUS** van Hasselt.

Puntius Hamilton, 388; type **CYPRINUS PUNTIO** Hamilton.

By tautonymy. Restricted to **CYPRINUS SOPHORE** Hamilton by Bleeker.

Danio Hamilton, 390; type **CYPRINUS DANGILA** Hamilton.

The first species named; as restricted by Bleeker.

Morulius Hamilton, 391; type **CYPRINUS MORALA** Hamilton.

The first species named; restriction by Bleeker.

Cabdio Hamilton, 392; type **CYPRINUS JAYA** Hamilton.

The first species named.

Garra Hamilton, 393; type **CYPRINUS LAMTA** Hamilton.

The first species named; as restricted by Bleeker. Replaces **DISCOGNATHUS** Heckel.

CXI (A). LEACH & DE LA BÈCHE, *Trans. Zool. Soc. London*, (2) 1822.

WILLIAM E. LEACH.

Dapedium Leach & De La Bèche, 45; type **DAPEDIUM POLITUM** Leach (fossil).

Written **DAPEDIUS** by Agassiz.

CXI (B). SCHINZ, *Das Thierreich*, II, 1822.

H. R. SCHINZ.

Macrodon Schinz, 482; type **LONCHURUS ANCYLODON** Bloch & Schneider.

Replaces **ANCYLODON** Cuvier, 1817, preoccupied by **ANCYLODON** Illiger, 1811, a genus of mammals. **MACRODON** is prior to **SAGENICHTHYS** Berg, 1895, also a substitute for **ANCYLODON**. Not **MACRODON** Müller & Troschel, which is replaced by **HOPLIAS** Gill, 1903.

CXII. VAN HASSELT, (*Poissons de Java*): Allgemeine Konst. en Letterbok, II, 1823.

JAN COENRAD VAN HASSELT.

Homaloptera Van Hasselt, 130; type HOMALOPTERA FASCIATA Van Hasselt.

Crossocheilus Van Hasselt, 132; type CROSSOCHEILUS OBLONGUS Van Hasselt.

Hampala Van Hasselt, 132; type HAMPALA MACROLEPIDOTA Van Hasselt.

Lobocheilus Van Hasselt, 133; type LOBOCHEILUS FALCIFER Van Hasselt.

A synonym of BANGANA.

Nemacheilus Van Hasselt, 133; type COBITIS FASCIATUS Valenciennes.

Acanthopsis Van Hasselt, 133; type ACANTHOPSIS DIALYZONA Van Hasselt.

Acanthophthalmus Van Hasselt, 133; type ACANTHOPHTHALMUS FASCIATUS Van Hasselt.

Homaloptera Van Hasselt, 133; type HOMALOPTERA FASCIATA Van Hasselt.

Oxygaster Van Hasselt, 133; type OXYGASTER ANOMALURUS Van Hasselt.

CXIII. DESMAREST, *Première Décade Ichthyologique*, 1823.

ANSELME GAËTAN DESMAREST.

Diabasis Desmarest, 34; type DIABASIS PARRA Desmarest.

Not DIABASIS Hoffmansegg, a genus of beetles, 1819. Replaced by HÆMULON Cuvier.

CXIV. NARDO, *Osservazione Aggiunte all' Adriatica Ittiologia*, 1824.

GIAN DOMENICO NARDO.

Squatinatoraja Nardo; type SQUATINORAJA COLONNA (RHINOBATUS COLUMNÆ Müller & Henle).

A synonym of RHINOBATUS.

CXV. MITCHILL, *Description of an Extraordinary Fish*: Ann. Lyc. Nat. Hist. N. Y., I, 1824.

SAMUEL LATHAM MITCHILL.

Saccopharynx Mitchill, 82; type **SACCOPHARYNX FLAGELLUM** Mitchill.

CXVI. VALENCIENNES, *Description du Cernié*: Mém. du Museum. Paris, XI, 1824.

ACHILLE VALENCIENNES.

Polyprion Valenciennes, 265; type **POLYPRION CERNIUM** Valenciennes.

CXVII. OTTO, *Propterygia hyposticta*, Nova Acta Acad., 1824.

B. C. OTTO.

Propterygia Otto, 111; type **PROPTERYGIA HYPOSTICTA** Otto.

A deformed **RAJA**, with the pectoral fins free from the head, similar to **CEPH-ALEUTHERUS** Rafinesque.

CXVIII. QUOY & GAIMARD, *Voyage Autour du Monde . . . Exécuté sur les Corvettes l'Uranie et la Physicienne* Under Captain Louis de Freycinet, 1824.

JEAN RENÉ CONSTANTINE QUOY; JOSEPH PAUL GAIMARD

This important work, which closely preceded the second edition of the *Règne Animal*, adopted a few unpublished names from Cuvier's manuscripts.

Anampses (Cuvier) Quoy & Gaimard, 276; type **ANAMPSES CUVIER** Q & G.

Monotypic

Gerres (Cuvier) Quoy & Gaimard, 203; type **GERRIS VAIGIENSIS** Q. & G., which is **SCIÆNA ARGYREA** Forskål.

In this paper the genus GERRES is mentioned for the first time. But two species are named, G. VAIGIENSIS and G. GULA. The former belongs to the modern genus XYSTÆMA Jordan & Evermann, the latter to EUCINOSTOMUS Baird. When GERRES was later defined by Cuvier in the *Règne Animal*, SCLENA ARGYREA, which is identical with G. VAIGIENSIS, is included, and G. GULA is not mentioned. It would appear that G. VAIGIENSIS must be taken as type, thus replacing XYSTÆMA.

Jordan & Evermann have taken an American species, GERRES LINEATUS (Humboldt) as type. This species is named by Cuvier, but not by Quoy & Gaimard. It cannot therefore serve as the type of GERRES. The genus called GERRES by Jordan & Evermann must apparently stand as DIAPTERUS Ranzani. If GERRES is regarded as preoccupied by GERRIS Fabricius, a genus of insects of earlier date, the substitute name of CATOCHÆNUM Cantor, 1850, should be used.

Percophis Quoy & Gaimard, 351; type PERCOPHIS BRASILIANUS Q. & G.
Monotypic.

Priodon (Cuvier) Quoy & Gaimard, 377; type PRIODON ANNULATUS Q.
& G.

A species of NASO Lacepède.

CXVIII (A). HARLAN, *Saurocephalus*: Journ. Ac. Nat. Sci. Phila.,
III (fossil fish), 1824.

RICHARD HARLAN.

Saurocephalus Harlan, 339; type SAUROCEPHALUS LANCIFORMIS Harlan.

CXIX. KÖNIG, *Icones Fossiles Sectione*, 1825.

C. KÖNIG.

Bucklandium König, 4; type BUCKLANDIUM DILUVII König.
Monotypic.

Ampheristus König, pl. XV, fig. 190; type AMPHERISTUS TOLIACUS
König.
Monotypic.

CXX. BOWDICH, *Fishes of Madeira*, 1825.

T. EDWARD BOWDICH.

Labeo Bowdich, 122; type LABEO SPAROIDES Bowdich.
A sparoid fish; not LABEO Cuvier, 1817.

Anomalodon Bowdich, 237; type *ANOMALODON INCISUS* Bowdich.

Apparently a synonym of *POMADASYD* Lacepède.

Diastodon Bowdich, 238; type *DIASTODON SPECIOSUS* Bowdich (*LABRUS SCROFA* Cuv. & Val.).

This genus appears valid. It is near *LEPIDAPLOIS* Gill, but with much smaller scales.

Seleima Bowdich, 238; type *SELEIMA AURATA* Bowdich.

A synonym of *KYPIOSUS* Lacepède (*K. INCISOR*).

Amorphocephalus Bowdich, 238; type *AMORPHOCEPHALUS GRANULATUS* Bowdich.

A synonym of *XYPHICHTHYS* Cuvier.

CXXI. RISSO, *Histoire Naturelle des Principales Productions de l'Europe Méridionale*, vol. III, Paris, 1826.

ANASTASE RISSO.

Lamia Risso, 123; type *SQUALUS CORNUICUS* L.

Monotypic. A synonym of *LAMNA* Cuvier, 1817.

Acanthias Risso, 131; type *SQUALUS ACANTHIAS* L.

Equivalent to *SQUALUS* L. as restricted.

Scyphius Risso, 185; type *SCYPHIUS FASCIATUS* Risso.

A synonym of *NEROPHIUS* Rafinesque, 1810.

Onos Risso, 214; type *GADUS MUSTELA* Bloch.

A synonym of *GADOPROSAURUS* Rafinesque.

Lotta Risso, 217; type *GADUS ELONGATUS* Otto.

A variant of *LOTA* Cuvier, 1817 ("Les Lottes"); apparently not eligible as a substitute for *MOLVA* Fleming.

Mora Risso, 224; type *MORA MEDITERRANEA* Risso.

Morua Risso, 225; type *GADUS CAPELAN* Lacepède.

According to Risso, a synonym of *TRISOPTERUS* Rafinesque, 1814; prior to *BRACHYGADUS* Gill (*GADUS MINUTUS* L.). Monotypic.

Tripterygion Risso, 241; type *TRIPTERYGION NASUS* Risso.

Monotypic.

Diana Risso, 267; type *DIANA SEMILUNATA* Risso.

Monotypic.

Aphia Risso, 287; type *APHIA MERIDIONALIS* Risso.

Apparently a young *ATHERINA*. Monotypic.

Fiatola Risso, 289; type *FIATOLA FASCIATA* Risso.

Monotypic. Apparently a young *STROMATEUS*.

Ausonia Risso, 341; type **AUSONIA CUVIERI** Risso.

A synonym of **LUVARUS** Rafinesque.

Aurata Risso, 355; type **AURATA SEMILUNATA** Risso.

A synonym of **SPARUS** L. as restricted by Fleming.

Macrostoma Risso, 447; type **MACROSTOMA ANGUSTIDENS** Risso.

Not **MACROSTOMUS** Wied, a genus of insects; replaced by **NOTOSCOPELUS** Günther.

Alpismaris Risso, 458; type **ALPISMARIS** RISSO Risso.

The young of **Synodus**.

Paralepis Risso, 472; type **PARALEPIS COREGONOIDES** Risso (**COREGONUS MACRÆNULA** Risso, 1810).

CXXI (A). **GERMAR**, *Keferstein's Deutschland's Geognosie Dargestellt*, 1826.

E. F. **GERMAR**.

Ichthyolithus Gernar, IV, 96; type **ICHTHYOLITHUS ESOCIFORMIS** Gernar.

Perhaps identical with **LEPTOLEPIS**. **ICHTHYOLITHUS**, a term for fossil fishes used by early authors, is perhaps not intended as a scientific name.

CXXII. **GEOFFROY ST. HILAIRE**, *Histoire Naturelle des Poissons de la Mer Rouge et de la Méditerranée*, 1826.

ISIDORE GEOFFROY ST. HILAIRE.

Trygon Geoffroy St. Hilaire; type **TRYGON GRABATUS** Geoffroy St. Hilaire.

This species is not noticed by recent writers. It is apparently a species of **TÆNIURA** Müller & Henle, 1842, allied to **TÆNIURA LYMA** (Forskål). This is generically distinct from the type of **TRYGON** (Adanson) Cuvier, 1817. St. Hilaire makes no reference to Adanson, from whose manuscripts Cuvier took the name. It is plain that the date of the article which contains the name **TRYGON** is subsequent to 1825, as a footnote relates to a paper read in October 1825, and printed in November. Hence we assume the date of the present paper as 1826. In any event **TRYGON** St. Hilaire is preceded by **TRYGON** Cuvier, and both are later than **DASYATIS** Rafinesque and **DASYBATIS** Klein.

CXXIII. KAUP, *Beiträge zur Amphibiologie und Ichthyologie*: Isis, XIX, 1826.

JOHANN JACOB KAUP.

Not seen by us.

Rachycentron Kaup, 89; type RACHYCENTRON TYPUS.

Name amended in 1827 (*Isis*, p. 624) to RACHYCENTRUM. Replaces ELACATE Cuvier.

Narke Kaup (Ueber NARKE, 65); type RAJA CAPENSIS Gmelin.

Replaces ASTRAPE Gray.

CXXIV. NARDO, *De Proctostego Novum Piscium*: in Diario Chem. et Hist. Nat. Ticino, vol. I, 1827.

GIAN DOMENICO NARDO.

Proctostegus Nardo, I, 18, 42; type PROCTOSTEGUS PROCTOSTEGUS Nardo.

A synonym of DIANA Risso.

CXXV. NARDO, *Prodromus Observationem et Disquisitionem, Adriaticæ Ichthyologiæ*: Giorn. Fisica de Pavia, I, 1827.

Aphanius Nardo, 17, 23; type APHANIUS NANUS Nardo (CYPRINODON CALARITANUS Cuv. & Val.).

A valid genus replacing LEBIAS of authors (not of Cuvier) and MICROMUGIL Gulia, 1861. Local name "Nani vel noni."

Acentrolophus Nardo, 11; type ACENTROLOPHUS MACULATUS Nardo (PERCA NIGRA Gmelin).

Substitute for CENTROLOPHUS Lacepède, regarded as inapplicable.

Leptosoma Nardo, 15, 22; type LEPTOSOMA ATRUM Nardo.

Name preoccupied in Crustacea, Leach, 1819. "Stogio bastardo"; synonym probably of MONOCHIRUS.

Pastinacæ Nardo, 11; type RAJA PASTINACA L.

Lævirajæ Nardo, 11; type RAJA MIRALETUS L.

CXXVI. HARWOOD, *On a Newly Discovered Genus of Serpentine Fishes*: Philos. Trans., 1827.

J. HARWOOD.

Ophiognathus Harwood, 40; type OPHIOGNATHUS AMPULLACEUS Harwood.

A synonym of SACOPHARYNX Mitchill

CXXVII. CLOQUET, *Nouveau Dictionnaire d'Histoire Naturelle: Nouvelle Edition*, XXX, 1827.

HIPPOLYTE CLOQUET.

Sandat Cloquet, XXX, 126, 129; type *PERCA LUCIOPERCA* L.

Based on "Les Sandres" Cuvier. A synonym of *SANDER* (Cuvier) Oken.

CXXVIII. RÜPPELL, *Atlas zu der Reise in Nördlichen Afrika: Fische des Rothen Meeres*, 1828.

EDUARD RÜPPELL.

Pharopteryx Rüppell, 15; type *PHAROPTERYX NIGRICANS* Rüppell.

A synonym of *PLESIOPS* Cuvier as later shown by Rüppell.

Lutodeira (Van Hasselt) Rüppell, 17; type *LUTODEIRA INDICA* (MUGIL CHANOS L.).

A synonym of *CHANOS*. Monotypic.

Scoliosomus Rüppell, 17; same type.

A synonym of *CHANOS*.

Haliophis Rüppell, 49; type *MURÆNA GUTTATA* Forskål.

Monotypic.

Pastinachus Rüppell, 82; type *RAJA SEPIHEN* Forskål.

Same as *HYPLOPHUS* Müller & Henle. Not *PASTINACA* Nardo.

Asterropteryx Rüppell, 138; type *ASTERROPTERYX SEMIPUNCTATUS* Rüppell.

CXXIX. FLEMING, *History of British Animals*, 1828.

JOHN FLEMING.

Selanonius Fleming, 169; type *SELANONIUS WALKERI* Fleming = *SQUALUS NASUS* (Bonnaterre).

A synonym of *LAMNA* Cuvier.

Encrasicholus Fleming, 183; type *CLUPEA ENCRASICHOLUS* L.

Synonym of *ENGRAULIS* Cuvier, 1817. Monotypic.

Gobitis Fleming, 189; type *COBITIS TÆNIA* L.

A perversion of *COBITIS*.

Morhua Fleming, 190; type *GADUS MORRHUA* L.

A synonym of *GADUS* L.

Molva Fleming, 197; type *GADUS MOLVA* L.

Cernua Fleming, 212; type PERCA CERNUA L.

Same as CERNUA Schæfer or ACERINA Guldensadt.

Cataphractus Fleming, 216; type COTTUS CATAPHRACTUS L.

A synonym of AGONUS Bloch & Schneider.

Spinachia Fleming, 219; type GASTEROSTEUS SPINACHIA L.

CXXX. STARK, *Elements of Natural History*, Edinburgh, 2 vols., 1828.

JOHN STARK.

Latinization of several of Cuvier's names, some of them differing from the form chosen by Oken. These are the following:

Brosmus Stark, 1, 425; type GADUS BROSME Müller.

Same as BROSME Oken, 1817.

Sandrus Stark, 1, 452; type PERCA LUCIOPERCA L.

Same as SANDER Oken.

Stelliferus Stark, 1, 459; type BODIANUS STELLIFER Bloch.

Same as STELLIFER Oken.

Cingla Stark, 1, 465; type PERCA ZINGEL L.

Same as ZINGEL Oken.

Daurada Stark, 1, 465; type SPARUS AURATA L.

A synonym of SPARUS L.

CXXXI. LESSON, *Description du Nouveau Genre Ichthyophis*: Mém. Soc. Nat. Hist. Paris, IV, 397, 1828.

R. P. LESSON.

Ichthyophis Lesson, 397; type ICHTHYOPHIS PANTHERINUS Lesson.

Name preoccupied; replaced by UROPTERYGIUS Rüppell.

CXXXII. CUVIER & VALENCIENNES, *Histoire Naturelle des Poissons*, vol. II, 1828.

GEORGES CUVIER and ACHILLE VALENCIENNES.

The first two volumes (the first one being anatomical and descriptive) of this great work preceded the second edition of the *Règne Animal*. The third and fourth volumes, also dated 1829, appeared in the last half of the year. The second edition of the *Règne Animal*, Vol. II, con-

taining the fishes, appeared in the first half of the year 1829, according to Mr. Fowler.

Labrax Cuvier & Valenciennes, II, 55; type PERCA LABRAX L. (LABRAX LUPUS C. & V.).

This is LABRAX of Klein, but not of Pallas, 1811.

Lates Cuvier & Valenciennes, 88; type PERCA NILOTICA L.

Lucioperca Cuvier & Valenciennes, II, 110; type PERCA LUCIOPERCA L. (LUCIOPERCA SANDRA Cuv. & Val.).

A synonym of SANDER Oken.

Huro Cuvier & Valenciennes, 125; type HURO NIGRICANS (LABRUS SALMOIDES Lacepède).

The genus is identical with GRYSTES. Both are synonyms of MICROPTERUS Lacepède.

Etelis Cuvier & Valenciennes, II, 127; type ETELIS CARBUNCULUS Cuv. & Val.

Monotypic.

Diploprion (Kuhl & Van Hasselt) Cuvier & Valenciennes, 137; type DIPLOPRION BIFASCIATUM Kuhl & Van Hasselt.

Monotypic.

Pomatomus (Risso) Cuvier & Valenciennes, II, 171; type POMATOMUS TELESCOPIUM Risso.

Not POMATOMUS Lacepède. Stands as EPIGONUS Rafinesque.

Ambassis (Commerson) Cuvier & Valenciennes, II, 175; type CENTROPOMUS AMBASSIS Lacepède (AMBASSIS COMMERSONI Cuv. & Val.), SCIÆNA SAFGIIA Forskål.

Aspro Cuvier & Valenciennes, II, 188; type PERCA ASPER L.

Equivalent to ASPER Schæfer and ASPERULUS Klein. Not ASPRO Commerson. PERCA ASPER is probably generically distinct from ZINGEL (Cuvier) Oken. The genus may stand as ASPER Schæfer or ASPERULUS Klein, both names of questionable eligibility.

Mesoprion Cuvier (*Règne Animal*, 143), Cuv. & Val., II, 441; type LUTIANUS LUTIANUS Bloch.

Name a substitute for LUTJANUS, regarded as barbarous.

CXXXIII. BORY DE SAINT VINCENT, *Dictionnaire Classique d'Histoire Naturelle*, XIII, 201, 1828.

JEAN BAPTISTE GEORGE MARIE BORY DE ST. VINCENT.

Sandat Bory de St. Vincent, XIII, 204, 1828; type PERCA LUCIOPERCA L.

A synonym of SANDER Oken.

CXXXIII (A). SEDGWICK & MURCHISON, *Fossil Fishes*: Trans. Geol. Soc. (2), III, 1828.

ADAM SEDGWICK and RODERIC IMPEY MURCHISON.

Dipterus Sedgwick & Murchison, 143; type *DIPTERUS VALENCIENNESI* Sedgwick & Murchison.

CXXXIV. CUVIER, *Le Règne Animal, distribué d'Après son Organisation*: Edition II, Vol. II (Fishes etc.), 1829.

GEORGES CUVIER.

A work of great importance, constituting with the first edition in 1817 the foundation of modern Ichthyology. The classification of fishes by Cuvier was for the first time solidly based on the true basis of Comparative Anatomy.

According to Henry Weed Fowler (*Proc. Ac. Nat. Sci. Phila.*, 1907, 264) the first, second, fourth and fifth fascicles of the second volume (*Fishes* etc.) of the Second Edition of the *Règne Animal* appeared in January, February and March 1829. The third was delayed until about July. The third and fourth volumes of the *Histoire Naturelle des Poissons* appeared later in the same year, 1829. These facts do not affect nomenclature, so far as we observe. We are indebted to Mr. Fowler for the pagination of the *Règne Animal*, our two copies being reprints.

Acerina Cuvier, 144 (Cuv. & Val., III, 3); type *PERCA CERNUA* L.

Identical with *CERNUA* Schæfer, *ACERINA* Guldénstadt, *PERCIS* Klein, and *GYMNOCEPHALUS* Bloch. The eligibility of these earlier names awaits decision.

Rypticus Cuvier, II, 144 (Cuv. & Val., III, 60); type *ANTHIAS SAPO-
NACEUS* Bloch.

More correctly written *RHYPTICUS*.

Pentaceros Cuvier, 145 (Cuv. & Val., III, 30); type *PENTACEROS
CAPENSIS* C. & V.

This name has been regarded as preoccupied by *PENTACEROS* Schulte, 1760, a star-fish.* It has been replaced by *QUINQUARIUS* Jordan. This change may not be necessary. According to Prof. Walter K. Fisher *PENTACEROS* of Schulte is not properly a generic name but a quasi-vernacular.

PENTACEROS Schröter, 1782, a name for the same animal is doubtfully tenable.

*Dr. Fisher (*Smithson. Misc. Coll.*, no. 1799, 1908) explains that Schulte (*"Versteinerte Seesterne"*) following the pre-Linnaean work of Linck (*De Stel-*

Centropristes Cuvier, 145 (Cuv. & Val., III, 56); type *CENTROPRISTES NIGRICANS* Cuv. & Val. (*LABRUS STRIATUS* L.).

Later written *CENTROPRISTIS*.

Gristes Cuvier (Cuv. & Val., III, 54); type *LABRUS SALMOIDES* Lacepède.

A synonym of *MICROPTERUS* Lacepède. Later written *GRYSTES*.

Chironemus Cuvier (C. & V., 78), 146; type *CHIRONEMUS GEORGIANUS* Cuv. & Val.

Monotypic.

Pomotis Cuvier, 147 (C. & V., III, 99); type "*POMOTIS VULGARIS*" (*PERCA GIBBOSA* L.).

No reference is made to Rafinesque's genus *POMOTIS*, proposed in 1819, with "*LABRUS AURITUS* L." as type. The description of Cuv. & Val. refers to the species called *PERCA GIBBOSA* by Linnaeus (*EUPOMOTIS GIBBOSUS* of Gill & Jordan). To this same species Rafinesque later transferred his generic name *POMOTIS*. Stands as *EUPOMOTIS* Gill & Jordan.

Centrarchus Cuvier 147 (C. & V., III, 84); type *CYCHLA AENEAE* Le Sueur.

A synonym of *AMBLOPLITES* Rafinesque, 1820. *LABRUS IRIDEUS* Lacepède, usually accepted as the type of *CENTRARCHUS*, is noted by Cuvier as an uncertain species which the author had not seen. The genus typified by *IRIDEUS* Lacepède (= *MACROPTERUS* Lacepède) must stand as *EUCENTRARCHUS* Gill, and its family as *MICROPTERIDÆ*, as Fowler has already indicated.

Dules Cuvier, 147 (C. & V., III, 111); type *DULES AURIGA* Cuvier.

Fowler (1907) regards *DULES* as preoccupied by *DULUS* Vieillot, 1816, a genus of birds. He gives a new name, *EUDULUS*, to *DULES AURIGA*.

Datnia Cuvier, 147 (C. & V., III, 138); type *COIUS DATNIA* Hamilton (*DATNIA ARGENTEA* Cuv. & Val.).

Pelates Cuvier, 148 (C. & V., III, 145); type *PELATES QUADRILINEATUS* Cuv. & Val.

lis Marinis, 1793) divides the star-fishes into three "genera" ("Geschlechter"), to which he gives group names, the five-rayed forms being under the "genus" "quinquifidæ." Under these are several kinds or species ("Arten"), one of them, "Der fünfhörnichte, *PENTACEROS*, hat fünf tiefe ausgeschweifte Seiten und lange kolbichte oder zugespitzte Strahlen. Die hierher gehörigen Arten sind entweder platt, *PLANÆ*, oder ab hockericht und bauchericht, *GIBBÆ*."

Obviously this is not scientific nomenclature.

"Schröter in 1782 (*Musei Gottwaldiani Testaceorum, Stellarum marinum* etc., Nürnberg, 58) used *PENTACEROS*, but he is not a consistent binomialist, and his 'generic' names are not tenable."

It is evident that *PENTACEROS* has no standing in nomenclature prior to its use by Cuvier & Valenciennes, unless given it by Schröter in 1782, a matter which awaits decision.

Helotes Cuvier, 148 (C. & V., III, 149); type *THERAPON SEXLINEATUS* Quoy & Gaimard.

Monotypic.

Trichodon (Steller) Cuvier, about 150 (C. & V., III, 153); type *TRACHINUS TRICHODON* Steller (*TRICHODON STELLERI* Cuv. & Val.).

Monotypic.

Myripristis Cuvier (about 150), (C. & V., III, 160); type *MYRIPRISTIS JACOBUS* Cuv. & Val.

Beryx Cuvier (about 150), (C. & V., III, 222); type *BERYX DECADACTYLUS* Cuv. & Val.

Pinguipes Cuvier, 153 (C. & V., III, 277); type *PINGUIPES BRASILIANUS* Cuv. & Val.

Monotypic. A synonym of *MUGILOIDES* Lacépède.

Upeneus Cuvier (about 160), (C. & V., III, 446); type *MULLUS BIFASCIATUS* Lacépède.

As first restricted by Bleeker. Later Bleeker transferred the name *UPENEUS* to the first species named by Cuvier & Valenciennes, *MULLUS VITTATUS* Forskål, already the type of his own genus *UPENEOIDES*. *MULLUS BIFASCIATUS* became then *PARUPENEUS*. This reversal seems to us unjustified. The name has been spelled *HYPENEUS*. *UPENEUS* should stand.

Hemitripterus Cuvier, 164; type *COTTUS TRIPTERYGIUS* Bloch & Schneider.

Hemilepidotus Cuvier, 165; type *COTTUS HEMILEPIDOTUS* Tilesius.

Monotypic.

Sebastes Cuvier, 166; type *PERCA NORVEGICA* Müller.

Blepsias Cuvier, 167; type *BLENNIUS VILLOSUS* Pallas.

Monotypic.

Apistes Cuvier, 167; type *APISTES ALATUS* Cuvier.

Agriopus Cuvier ("Les Agriopes"), 168; type *BLENNIUS TORVUS* Walbaum.

Pelor Cuvier, 168; type *SCORPÆNA DIDACTYLA* Pallas (*PELOR OBSCURUM* Cuvier).

Monotypic. Name preoccupied for a genus of beetles, 1813. Replaced by *INIMICUS* Jordan & Starks (type *PELOR JAPONICUM* Cuv. & Val.). *P. FILAMENTOSUM* Cuv. & Val. cannot be taken as the type of *PELOR*, as Cuvier names but one species, the others being then undescribed. This species, with two of the pectoral rays tipped with filaments, may belong to a different genus.

Oreosoma Cuvier (about 170); type (not named) *OREOSOMA ATLANTICUM* Cuvier.

Corvina Cuvier, 173; type *SCIÆNA NIGRA* Gmelin; part of *SCIÆNA UMBRA* L.

The species *SCIÆNA UMBRA* L., the type of the genus *SCIÆNA*, was two-fold, a complex about evenly divided of the species called *SCIÆNA NIGRA* Gmelin and *CHEILODIPTERUS AQUILA* Lacepède. The synonymy was disentangled by Cuvier (*Mém. du Muséum*, 1815) and the name *SCIÆNA UMBRA* retained in place of *S. AQUILA*. In accepting this decision we restore the generic name *CORVINA*, for the "Corb," which becomes *CORVINA NIGRA*, while *SCIÆNA* replaces *ARGYROSOMUS* de la Pylaie and *PSEUDOSCIÆNA* Bleeker for the "Maigre," which remains *SCIÆNA UMBRA* L., the type of *SCIÆNA* L.

Hæmulon Cuvier, 175; type *HÆMULON ELEGANS* Cuvier (*SPARUS SCIURUS* Shaw).

Lobotes Cuvier, 177; type *HOLOCENTRUS SURINAMENSIS* Bloch.
Monotypic.

Scolopsides Cuvier, 178; type *SCOLOPSIDES KURITA* Cuvier.
Called *Scolopsis* in Edition I.

Dascyllus Cuvier, 179; type *CILÆTODON ARUANUS* L.
Monotypic.

Heliastes Cuvier; type (not indicated) *HELIASTES INSOLATUS* Cuv. & Val.

Identical with *CHROMIS* Cuvier, 1815, not *CROMIS* Browne, 1789, nor *CHROMIS* Plumier.

Chrysophris Cuvier, 181; type *SPARUS AURATA* L.
A synonym of *SPARUS* L.

Pagellus Cuvier (about 182); type *SPARUS ERYTHRINUS* L.

Pentapus Cuvier ("Les Pentapodes") (about 182); type *SPARUS VITTATUS* Bloch.

Lethrinus Cuvier (about 182); type *SPARUS CILIGEROHYNCHIUS* Bloch & Schneider.

Oblada Cuvier, 185; type *SPARUS MELANURUS* L.
Monotypic.

Mæna Cuvier; type *SPARUS MÆNA* L.

Taurichthys Cuvier, 192; type *TAURICHTHYS VARIUS* Cuvier.
A subgenus of *HENIOCHUS* Cuvier.

Psettus, (Commerson) Cuvier (about 193); type *CILÆTODON RHOMBÆUS* Bloch & Schneider.
Synonym of *MONODACTYLUS* Lacepède.

Dipterodon Cuvier (about 195); type *DIPTERODON CAPENSIS* Cuvier.
Not *DIPTERODON* Lacepède, 1803. Monotypic. Replaced by *DICLISTIUS* Gill.

Pempheris Cuvier, 195; type *KURTUS ARGENTEUS* Bloch & Schneider
(*PEMPHERIS TOUEA* Cuvier).

Auxis Cuvier, 199; type *SCOMBER ROCHEI* Risso (*SCOMBER THIAZARD* Lacepède).

Sarda Cuvier, 199; type *SCOMBER SARDA* Bloch.

Later (1831) called *PELAMYS* by Cuvier & Valenciennes. Monotypic. Not *SARDA* Plumier.

Cybius Cuvier, 199; type *SCOMBER COMMERSONI* Lacepède.

A synonym of *SCOMBEROMORUS* Lacepède, 1803.

Thyrsites Cuvier (about 200); type *SCOMBER ATUN* Euphrasen.

Gempylus Cuvier, 200; type *GEMPYLUS SERPENS* Cuvier.

This is identical with *LEMNISOMA* of Lesson, but the date of *LEMNISOMA* is 1830.

Elacate Cuvier, II, 203, as "LES ELACATES," the Latin name dating from C. & V., 1831; type *ELACATE MOTTA* C. & V.

Synonym of *RACHYCENTRON* Kaup.

Olistus Cuvier, II, 209; type (not named) *OLISTUS MALABARICUS* Cuv. & Val.

Scyris Cuvier, II, 209; type "LE GAL D'ALEXANDRIE," *SCYRIS INDICA* Cuv. & Val.

Not separable from *ALECTIS* Raf.

Blepharis Cuvier (about 210); type *ZEUS CILIARIS* Bloch.

Name preoccupied, replaced by *BLEPHARICHTHYS* Gill. A synonym of *ALECTIS*.

Peprilus Cuvier, 213; type *PEPRILUS CRENULATUS*.

Probably the young of *PEPRILUS ALEPIDOTUS* Cuvier. Monotypic. Same as *RHOMBUS* Lacepède, not of Klein.

Astrodermus (Bonelli) Cuvier (about 215); type *ASTRODERMUS GUTTATUS* Bonelli Ms. (*DIANA SEMILUNATA* Risso).

Axinurus Cuvier, 225; type *AXINURUS THYNNOIDES* Cuvier.

Monotypic.

Priodon Cuvier, 225; type *PRIODON ANNULARIS* Cuvier.

Polyacanthus (Kuhl) Cuvier, 227; type *TRICHOPODUS COLISA* Hamilton.

Helostoma (Kuhl) Cuvier, 228; type *HELOSTOMA TEMMINCKI* Cuvier. Monotypic.

Spirobranchus Cuvier, 229; type *SPIROBRANCHUS CAPENSIS* Cuvier. Monotypic.

Myxodes Cuvier, 238; type (not named) *MYXODES VIRIDIS* Cuv. & Val.

Cirrhibarbus Cuvier ("LES CIRRHIBARBES") 238; type (not named) *CIRRHIBARBUS CAPENSIS* Cuv. & Val.

Monotypic

Zoarces Cuvier (about 240); type *BLENNIUS VIVIPARUS* L.

Equivalent to *ENCHELYOPUS* Gronow, 1763.

Platyptera (Kuhl & van Hasselt) Cuvier, 248; type *PLATYPTERA MELANOCEPHALA* K. & v. H.

Name preoccupied, replaced by *RHYACICHTHYS* Boulenger.

Chirus (Steller) Cuvier, about 250; type *LABRAX LAGOCEPHALUS* Pallas.
Substitute for *LABRAX* Klein.

Antennarius (Commerson) Cuvier (about 251); type *LOPHIUS COMMERSONIANUS* Lacepède.

Accepted as a substitute for *CHIRONECTES* Cuvier, 1817, preoccupied.

Malthe Cuvier, 252; type *LOPHIUS VESPERTILIO* L.

Synonym of *OGCOCEPHALUS* Fischer. Monotypic.

Lachnolaimus Cuvier, 257; type *LACHNOLAIMUS SUILLUS* Cuvier.

SUILLUS of Catesby. Monotypic.

Anampses Cuvier, 259; type *ANAMPSES CUVIERI* Quoy & Gaimard.

Clepticus Cuvier, 261; type *CLEPTICUS GENIZARA* Cuvier.

Monotypic.

Malacanthus Cuvier, 264; type *CORYPHÆNA PLUMIERI* Bloch.

Calliodon Cuvier ("LES CALLIODON"), (about 265); type *SCARUS SPINIDENS* Q. & G.

Not identical with *CALLYODON* Gronow nor of Bloch & Schneider. Replaced by *CRYPTOTOMUS* Cope, 1871.

Odax Cuvier (about 265); type *SCARUS PULLUS* Forster.

Monotypic. Not *ODAX* Commerson.

Mallotus Cuvier, II, 305; type *SALMO GRÆNLANDICUS* Bloch (*CLUPEA VILLOSA* Gmelin).

Thymallus Cuvier, 306; type *SALMO THYMALLUS* L.

Regarded by some as preoccupied by *THYMALUS* Latreille, 1802, a genus of beetles; replaced by *COREGON* Minding, 1832. But the scantily noted *THYMALUS* of Linck, 1791, has priority over *THYMALUS*, if acceptable. The root-words of *THYMALLUS* and *THYMALUS* are not identical, *THYMALLUS* being a Latin name of the Grayling.

Coregonus Cuvier; type *SALMO OXYRHYNCHUS* L.

Alosa Cuvier, 319; type *CLUPEA ALOSA* L.

Same as *ALOSA* Linck.

Chatoëssus Cuvier, 320; type *MEGALOPS CEPEDIANUS* Le Sueur.

As restricted by Cuv. & Val. Equivalent to *DOROSOMA* Rafinesque.

Thyrssa Cuvier; type *CLUPEA SETIROSTRIS* Broussonet (*THRISSA* Cuv. & Val., 1817).

Not *THRISSA* Rafinesque, 1815. To be replaced by *THRISSOCLÆS* Jordan, a new generic name.

Motella Cuvier, 334; type *GADUS MUSTELA* L.

Substitute for *MUSTELA* Cuvier, 1817, preoccupied in mammals. Identical with *GAIDROPSARUS* Rafinesque, 1810.

Monochir Cuvier, 336; type *PLEURONECTES MICROCHIRUS* De la Roche.

Substitute for *MONOCHIRUS*, preoccupied. Not sufficiently different.

Osteoglossum (Vandelli) Cuvier (about 390); type *OSTEOGLOSSUM VANDELLI* Cuvier.

Gymnarchus Cuvier (about 390); type *GYMNARCHIUS NILOTICUS* Cuvier.

Triodon Cuvier (about 390); type *TRIODON BURSARIUS* Reinwardt.

Anacanthus (Ehrenberg) Cuvier (about 390); type (not named) *RAJA UARNAK* Forskål.

Monotypic. Replaces *HIMANTURA* Müller, 1837.

Heterotis Ehrenberg; type *SUDIS NILOTICUS* Cuv. & Val.

Quoted from the *Règne Animal* by Günther, but we do not find it there. Apparently it appears first in Cuv. & Val., XIX, 465, 1846.

XXXV. AGASSIZ (AND SPIX), *Selecta Genera et Species Piscium quos in Itinere per Brasiliam, 1817, 1820, Collegit Dr. J. B. de Spix, 1829.*

LOUIS AGASSIZ and JEAN BAPTISTE SPIX.

The date of this work is apparently a little later than that of the Second Edition of the *Règne Animal*.

Acanthicus Spix, 2; type *ACANTHICUS HYSTRIX* Spix.

Rhinelepis Spix, 2; type *RHINELEPIS ASPERA* Spix.

Cetopsis Agassiz, 8; type *CETOPSIS CAECUTIENS* Agassiz.

Hypophthalmus Spix, 9; type *HYPOPHTHALMUS EDENTULUS* Spix.

Phractocephalus Agassiz, 10; type *PHRACTOCEPHALUS BICOLOR* Agassiz.

Platystoma Agassiz, 10; type *SILURUS LIMA* Bloch & Schneider.

Name preoccupied by a genus of flies, Meigen, 1803.

Glanis Agassiz, 10; type not named.

Name given in dative case only "*In Glanide Agass.*" Substitute for *BAGRE* Cuvier, rejected because of barbarous origin. Afterwards (1856) *GLANIS* was revived as the generic name for the Greek cat-fish, *GLANIS ARISTOTELIS* Agassiz, which is perhaps a *PARASILURUS*.

Ceratorhynchus Agassiz, 10; type *SILURUS MILITARIS* Bloch & Schneider.

Not L. Name given in genitive only as "CERATORHYNCHI." Genus close to *AGENEIOSUS* Lacepède but with the two short barbels replaced by erectile bony weapons.

Centrochir Agassiz, 14; type *DORAS CROCODILI* Humboldt. Based on a species of *DORAS* "non modo pinna pectorali uniradiata sed etiam appendice quadriradiata primæ caudalis maxime."

Sorubim Spix, 24; type *SILURUS LIMA* Bloch & Schneider.

Replaces *PLATYSTOMA*.

Xiphorhynchus Agassiz, 18; type *SALMO FALCATUS* Bloch.

Salminus Agassiz, 18; type *HYDROCYON BREVIDENS* Cuvier.

Osteoglossum (Vandelli) Agassiz, 46; type *OSTEOGLOSSUM VANDELLI* Cuv. & Val.

Ischnosoma Spix, 47; type *ISCHNOSOMA BICIRRHOSUM* Spix.

A deformed *OSTEOGLOSSUM*.

Glossodus (Cuvier) Agassiz, 48; type *GLOSSODUS FORSKALI* Agassiz (*ESOX VULPES* L.).

Same as *ALBULA* Gronow.

Anodus Spix, 57; type *ANODUS ELONGATUS* Spix.

Prochilodus Agassiz, 57; type *PROCHILODUS ARGENTEUS* Spix.

Leporinus Spix, 58; type *LEPORINUS NOVEFASCIATUS* Spix.

Schizodon Agassiz, 58; type *SCHIZODON FASCIATUS* Agassiz.

Same as *ANOSTOMUS* Gronow.

Rhaphiodon Agassiz, 59; type *RHAPHIODON VULPINUS* Agassiz.

Cynodon Spix, 59, 76; type *CYNODON GIBBUS* Spix.

As restricted by Eigenmann. Not *CYNODONTA* Schuhmacher, 1817, a genus of mollusks.

Name changed to *RHAPHIODON* because earlier used in botany.

Xiphostoma Spix, 60, 78; type *XIPHOSTOMA CUVIERI* Spix.

Micropteryx Agassiz, 102; type (not named) *SERIOLA DUMERILI* Cuvier.

Substitute for *SERIOLA*, preoccupied in botany. A synonym of *SERIOLA* Cuvier.

Corniger Agassiz, 119; type *CORNIGER SPINOSUS* Agassiz.

Pachyurus Agassiz, 125; type *PACHYURUS SQUAMIPINNIS* Agassiz.

CXXXVI. CUVIER & VALENCIENNES, *Histoire Naturelle des Poissons*, IV, 1829.

GEORGES CUVIER and ACHILLE VALENCIENNES.

Hoplichthys Cuv. & Val., IV, XIX, 1829; type **HOPLICHTHYS LANGSDORFII** Cuv. & Val.

Called **HOPLICHTHYS** in table of contents, **OPLICHTHYS** in the text.

Oplichthys Cuv. & Val., IV, 264, 1829; type **OPLICHTHYS LANGSDORFII** Cuv. & Val.

A variant in spelling.

Bembras Cuv. & Val., IV, 282; type **BEMBRAS JAPONICUS** Cuv. & Val.

Minous Cuv. & Val., IV, 420, 1829; type **MINOUS WOORA** Cuv. & Val.

Name changed to **CORYTHOBATUS** by Cantor, 1850, on account of **MINOIS** Hübnér, 1816, a genus of butterflies.

Hoplostethus Cuv. & Val., IV, 469; type **HOPLOSTETHUS MEDITERRANEUS** Cuv. & Val.

CXXXVII. COCCO, *Su Alcuni Nuovi Pesce del Mar di Messina*: Archivio della R. Accademia Peloritana, 1829.

ANASTASIO COCCO.

Argyropelecus Cocco, 146; type **ARGYROPELECUS HEMIGYMNUS** Cocco.

CXXXVIII. COCCO, *Su Alcuni Nuovi Pesci del Mar di Messina*: Giorni Sci. Lett. Sicilia, XXVI, no. 77, 1829.

Nyctophus Cocco, 44; type **NYCTOPHUS RAFINESQUEI** Cocco.

Substitute for **MYCTOPHUM**.

CXXXIX. COCCO, *Sullo Schedophilus Medusophagus*: Giorn. Gabin de Messina, I, 30 to 32; also quoted as *Innom. Messina Ann.*, III, 1829, p. 57.

Schedophilus Cocco, 30, 57; type **SCHEDOPHILUS MEDUSOPHAGUS** Cocco.

We have seen none of these papers of Cocco.

CXL. SERVILLE, *Faune Française*, 1820 to 1830.

"Livraison 24 par M. Serville" contains the fishes. This bears no date, but it was probably issued about 1829. It is not quoted by Cuvier, nor does it quote Cuvier. The date is not important, as no question of priority is concerned. This work is commonly ascribed to Blainville, who with Vieillot, Desmarest, Serville and others edited the series. In any event, the work is based on Blainville's *Prodrome*. All of Blainville's generic names ending in BATUS are here changed to BATIS.

AUDINET-SERVILLE.

Dasybatis Serville, 12, 1829 ("RAIES EPINEUSES"); type RAJA BATIS L.
Same as RAJA.

Narcobatis (Blainville) Serville, 45 ("RAIES TORPILLES"); type RAIA TORPEDO L.

Same as NARCACION Klein, TORPEDO Duméril, not of Forskål. Called NARCOBATUS by Blainville, 1816.

Pristibatis Serville, 49 ("RAIES SCIES"); type SQUALUS PRISTIS L.
(PRISTIBATIS ANTIQUORUM Blainville).

CXLI. VALENCIENNES, *Poissons Fossiles*: Trans. Geol. Soc., III, 1829.

ACHILLE VALENCIENNES.

Osteolepis Valenciennes, 144; type OSTEOLEPIS MACROLEPIDOTUS Valenciennes.

CXLII. CUVIER & VALENCIENNES, *Histoire Naturelle des Poissons*, Vols. V (January) and VI (July) 1830.

GEORGES CUVIER and ACHILLE VALENCIENNES.

Larimus Cuvier & Valenciennes, V, 146; type LARIMUS BREVICEPS Cuv. & Val.
Monotypic.

Nebris Cuvier & Valenciennes, V, 149; type NEBRIS MICROPS Cuv. & Val.

Not NEBRIA Latreille, 1802, a genus of beetles. Monotypic.

Lepipterus Cuvier & Valenciennes, V, 151; type **LEPIPTERUS FRANCISCI** Cuv. & Val.

Monotypic.

Boridia Cuvier & Valenciennes, V, 154; type **BORIDIA GROSSIDENS** Cuv. & Val.

Monotypic.

Conodon Cuvier & Valenciennes, V, 156; type **CONODON ANTILLANUS** Cuv. & Val. (**PERCA NOBILIS** L.).

Monotypic. Same as **CHELONIGER** Plumier.

Eleginus Cuvier & Valenciennes, 158; type **ELEGINUS MACLOVINUS** Cuv. & Val.

Monotypic. Not **ELEGINUS** Fischer, 1813. Replaced by **ELEGINOPS** Gill.

Micropogon Cuvier & Valenciennes, V, 213; type **MICROPOGON LINEATUS** Cuv. & Val. (**PERCA UNDULATA** L.).

The original types of **LINEATUS** were from New York.

Latilus Cuvier & Valenciennes, V, 368; type **LATILUS ARGENTATUS** Cuv. & Val. (**CORYPHÆNA JAPONICA** Houttuyn).

A synonym of **BRANCHIOSTEGUS** Rafinesque, 1815.

Macquaria Cuvier & Valenciennes, V, 377; type **MACQUARIA AUSTRALASICA** Cuv. & Val.

Monotypic.

Etroplus Cuvier & Valenciennes, V, 486; type **ETROPLUS MELEAGRIS** Cuv. & Val. (**CHÆTODON SURATENSIS** Bloch).

As restricted by Bleeker.

Box Cuvier & Valenciennes, VI, 346; type **SPARUS BOOPS** L. (**BOX VULGARIS** Cuv. & Val.).

A synonym of **Boops** Cuvier.

Scatharus Cuvier & Valenciennes, VI, 375; type **SCATHARUS GRÆCUS** Cuv. & Val.

Monotypic.

Crenidens Cuvier & Valenciennes, VI, 377; type **CRENIDENS FORSKALII** Cuv. & Val.

Monotypic.

Aphareus Cuvier & Valenciennes, VI, 485; type **LAHRUS FURCATUS** Lacepède.

Monotypic.

Aprion Cuvier & Valenciennes, VI, 544; type **APRION VIRESCENS** Cuv. & Val.

Monotypic.

Apsilus Cuvier & Valenciennes, VI, 548; type **APSILUS FUSCUS** Cuv. & Val.

Monotypic.

- CXLIII. BENNETT, *Catalogue of the Fishes of Sumatra*: in Life and Public Services of Sir Stamford Raffles, 1830.

EDWARD TURNER BENNETT.

Monotaxis Bennett, 688; type *MONOTAXIS INDICA* Bennett (*SCIÆNA GRANDOCULIS* Forskål).

Replaces *SPHÆRODON* Rüppell.

- CXLIV. BRONN, *Ueber Zwei Fossile Fischarten*: Neues Jahrbuch Mineralogie, 1830.

HEINRICH GEORG BRONN.

Tetragonolepis Bronn, 30; type *TETRAGONOLEPIS SEMICINCTUS* Bronn. Monotypic.

- CXLV. HAYS, *Saurodon*: Trans. Amer. Philos. Soc., III, 1830.

I. HAYS.

Saurodon Hays, 475; type *SAURODON LEANUS* Hays (fossil).

- CXLVI. CUVIER & VALENCIENNES, *Histoire Naturelle des Poissons*, VII (January) and VIII (October), 1831.

GEORGES CUVIER and ACHILLE VALENCIENNES.

Chelmon Cuvier & Valenciennes, VII, 86; type *CHÆTODON ROSTRATUS* L.

Zanclus (Commerson) Cuv. & Val., VII, 92, 1831; type *CHÆTODON CORNUTUS* L.

Drepane Cuvier & Valenciennes, VII, 132; type *CHÆTODON PUNCTATUS* L.

Scatophagus Cuvier & Valenciennes, VII, 136; type *CHÆTODON ARGUS* L.

Psettus (Commerson) Cuvier & Valenciennes, VII, 240; type *PSETTUS COMMERSONI* Cuv. & Val. (*MONODACTYLUS FALCIFORMIS* Lacépède).

Pempheris Cuvier & Valenciennes, VII, 296; type *PEMPHERIS OUALENSIS* Cuv. & Val.

Toxotes Cuvier & Valenciennes, VII, 310; type *SCIÆNA JACULATRIX* Pallas.

Monotypic.

Colisa Cuvier & Valenciennes, VII, 359; type *COLISA VULGARIS* Cuv. & Val. (*TRICHOPODUS COLISA* Hamilton).

Same as *TRICHOGASTER* Bloch & Schneider as restricted by Cuv. & Val.

Spirobranchus Cuvier & Valenciennes, VII, 392; type *SPIROBRANCHIUS CAPENSIS* Cuv. & Val.

Monotypic.

Bryttus Cuvier & Valenciennes, VII, 454, 461; type *BRYTTUS PUNCTATUS* Cuv. & Val.

Same as *APOMOTIS* Rafinesque.

Nandus Cuvier & Valenciennes, VII, 481; type *NANDUS MARMORATUS* Cuv. & Val. (*COIUS NANDUS* Hamilton).

Rhynchichthys Cuvier & Valenciennes, VII, 504; type *RHYNCHICHTHYS PELAMIDIS* Cuv. & Val.

The young of *HOLOCENTRUS*.

Lichia Cuvier & Valenciennes, VIII, 340, 1831; type *SCOMBER AMIA* L.

Chorinemus Cuvier & Valenciennes, VIII, 367; type *SCOMBEROIDES COMMERSONIANUS* Lacepède.

A synonym of *SCOMBEROIDES* Lacepède.

Aplodactylus Cuvier & Valenciennes, VIII, 476; type *APLODACTYLUS PUNCTATUS* Cuv. & Val.

Usually written *HAPLODACTYLUS*.

Aphritis Cuvier & Valenciennes, VIII, 483; type *APIRITIS URVILLI* Cuv. & Val.

Monotypic.

Bovichtus Cuvier & Valenciennes, VIII, 487; type *CALLIONYMUS DIACANTHUS* Carmichael.

CXLVII. JARDINE, *Acestra*, 1831.

SIR WILLIAM JARDINE.

Acestra Jardine; type *SYNGNATHUS AQUOREUS* Rafinesque.

A synonym of *NEROPHIS* Rafinesque. We take this incomplete reference from Bonaparte, *Catalogo Metodico*, 1846, 91.

CXLVIII. GRAY, *Description of Twelve New Genera of Fish found by General Hardwicke in India*: Zool. Misc., 1831, 7-10.

JOHN EDWARD GRAY.

Centracion Gray, 5; type CENTRACION ZEBRA Gray.

Equivalent to HETERODONTUS Blainville, regarded as preoccupied by HETERODON Latreille, a genus of serpents.

Temera Gray, 7, 152; type TEMERA HARDWICKEI Gray.

Monotypic. Also in Ill. Ind. Zool.

Botia Gray, 8; type BOTIA ALMORILÆ Gray.

Nandina Gray, 8; type CYPRINUS NANDINA Hamilton.

Chaca Gray, 8; type PLATYSTACUS CHACA Hamilton.

Coilia Gray, 9; type COILIA HAMILTONI Gray.

Raconda Gray, 9; type RACONDA RUSSELLIANA Gray.

Moringua Gray, 9; type MORINGUA LATERALIS Gray.

Also in Ill. Ind. Zool., 95.

CXLIX. GRAY, *Illustrations of Indian Zoology, chiefly selected from the collection of General Hardwicke*.

Two volumes of excellent plates, but without text; the plates not paged, but with manuscript numbers. Vol. I, 1830-1832, Vol. II, 1833-1834. The exact dates are uncertain. The first five of the following occur in CXLVIII; also, pp. 8, 9.

Ailia Gray, 85, 1831; type AILIA BENGALENSIS Gray.

Acanthonotus Gray, 85, 1831; type ACANTHONOTUS CUVIERI Gray (AILIA BENGALENSIS Gray).

Name preoccupied. Same as AILIA. Based on injured specimen.

Anacanthus Gray, 85, 1831; type ANACANTHUS BARBATUS Gray.

Name preoccupied by ANACANTHUS Ehrenberg, 1829. Replaced by PSILOCEPHALUS Swainson.

Diplopterus Gray, 87, 1831; type DIPLOPTERUS PULCHER Gray.

Not identified; said to have two anal fins. Name preoccupied in birds, Boie.

Rataboura Gray, 95, 1831; type MURENA RATABOURA Hamilton (RATABOURA HARDWICKEI Gray).

Same as MORINGUA Gray, but with line priority.

Bedula Gray, 88, 1833; type *BEDULA NEBULOSA* Gray.

A synonym of *NANDUS* Cuv. & Val., 1831.

Pterapon Gray, II, 88, 1833; type *PTERAPON TRIVITTATUS* Gray (*SCIÆNA JARBUA* Forskål).

A synonym of *THERAPON* Cuvier.

Amora Gray, II, 90, 1833, corrected in manuscript to *ANAORA*; type *AMORA TENTACULATA* Gray.

Not identified. A platycephalus-like fish with tentacles over eye and spinules on sides. Perhaps a species of *THYSANOPHRYS* Ogilby.

Apterygia Gray, II, 92, 1833; type *APTERYGIA RAMCARATE* Gray.

Same as *RACONDA* Gray.

Tor Gray, II, 96, 1833; type *CYPRINUS TOR* Hamilton (*TOR HAMILTONI* Gray).

Replaces *LABEOBARBUS* Bleeker.

Bengala Gray, 96, 1833; type *CYPRINUS ELANGA* Hamilton.

Replaces *MEGARASBORA* Günther, 1868.

Amanses Gray, II, 98, 1833; type *AMANSES HYSTRIX* Gray (*MONACANTHUS SCOPAS* Cuvier).

Acarana Gray, II, 98, 1833; type *OSTRACION AURITUS* Shaw.

Also in *Annals Nat. Hist.*, I, 110, 1838.

Girella Gray, II, 98, 1833; type *GIRELLA PUNCTATA* Gray.

CL. GRAY, *Description of three new species of fish including two undescribed genera discovered by John Reeves in China*: Zoological Miscellany, 1831.

Leucosoma Gray, 4; type *LEUCOSOMA REEVESI* Gray (*ALBULA CHINENSIS* Osbeck).

Monotypic. A synonym of *SALANX* Cuvier and of *ALBULA* Osbeck.

Samaris Gray, 4; type *SAMARIS CRISTATUS* Gray.

Monotypic.

CLI. GRAY, *Description of a new genus of Percoid fish, discovered by Samuel Stutchbury in the Pacific Seas*: Zoological Miscellany, 1831.

Micropus Gray, 20; type *MICROPUS MACULATUS* Gray.

Name preoccupied by *MICROPUS* Wolf, 1810, a genus of birds. Replaced by *CARACANTHUS* Kröyer, 1844 (*C. TYPICUS*).

CLI (A). LESSON, *Voyage Autour du Monde sur la corvette La Coquille, under Captain L. I. Duperrey*, 1830.

R. P. LESSON.

Lemnisoma Lesson, 160; type **LEMNISOMA THYRSITOIDES** Lesson.
A synonym of **GEMPYLUS** Cuvier.

CLII. MINDING, *Lehrbuch, Naturgeschichte der Fische*, 1832.

JULIUS MINDING.

Not seen by us.

Pompilus Minding, 108; type **GASTEROSTEUS DUCTOR** L.

Same as **NAUCRATES**.

Choregon Minding, 119; type **SALMO THYMALLUS** L.

Substitute for **THYMALLUS** Cuvier, regarded as preoccupied by **THYMALUS** Latreille, 1802, a genus of beetles. But the two names seem to be from different roots. **THYMALLUS** Linck, with a word or two of definition, is older than **THYMALUS** Latreille.

CLIII. NILSSON, *Prodromus Ichthyologiæ Scandinavicæ*, 1832.

S. NILSSON.

Salvelini Nilsson, 7; type **SALMO SALVELINUS** L. (**SALMO ALPINUS** L.).

As group name. The normal form **SALVELINUS** used by Richardson, *Fauna Boreali Americana*, III, 169, 1836.

CLIV. AGASSIZ, *Fossile Fischreste: Neues Jahrbuch Mineralogie*, 1832.

LOUIS (JEAN RODOLPHE) AGASSIZ.

Ptycholepis Agassiz, 142; type **PTYCHOLEPIS BOLLENSIS** Agassiz.

Uræus Agassiz, 142; type **URÆUS FURCATUS** Agassiz.

Name preoccupied by Wagler, 1830. Replaced by **CATURUS** Agassiz, 1834.

Sauropsis Agassiz, 142; type **SAUROPSIS LATUS** Agassiz.

Pholidophorus Agassiz, 145; type **PHOLIDOPHORUS MACROCEPHALUS** Agassiz.

Semionotus Agassiz, 144; type **SEMIONOTUS BERGERI** Agassiz.

Lepidotes Agassiz, 145; type **LEPIDOTES GIGAS** Agassiz (**CYPRINUS ELVENSIS** Blainville).

Later written **LEPIDOTUS**.

Leptolepis Agassiz, 146; type **LEPTOLEPIS BRONNI** Agassiz.

Acanthoëssus Agassiz, 149; type **ACANTHOESSUS BRONNI** Agassiz.

Later called **ACANTHODES**.

CLV. VON MEYER, *Palæologica*, 1832.

H. VON MEYER.

Lepidosaurus von Meyer, 208; type **LEPIDOTUS UNGUICULATUS** Agassiz.

A synonym of **LEPIDOTES**.

CLVI. BONAPARTE, *Iconografia della Fauna Italica*; III, 1832-1841.

CARLO LUCIANO PRINCIPE BONAPARTE

(otherwise CHARLES LUCIEN BONAPARTE, Prince of Canino).

An elaborate and finely illustrated work, issued in fascicles, these being numbered but not paged. The number of the fascicle is noted below, with the approximate date of each.

Cerna Bonaparte, 18, 1832; type **PERCA GIGAS** Brünnich (**LABRUS GUAZA** L.).

A synonym of **EPINEPHELUS** Bloch as now restricted.

Microchirus Bonaparte, 28, 1832; type **PLEURONECTES MICROCHIRUS** De la Roche.

MONOCHIRUS Cuvier, not of Rafinesque

Monochirus Bonaparte,* 28, 1832; type **SOLEA MONOCHIR** Bonaparte.

Same as **MONOCHIRUS** Rafinesque.

Squalius Bonaparte, 66, 1834; type **LEUCISCUS SQUALUS** Bonaparte (**CYPRINUS CEPHALUS** L.).

Same as **LEUCISCUS**.

Telestes Bonaparte, 103, 1834; type **TELESTES MUTICELLUS** Bonaparte.

Ichthyococcus Bonaparte, 138, 1834; type **ICHTHYOCOCCUS OVATIS** Bonaparte.

Name later altered to **COCCIA** by Günther because of its objectionable form

* For sake of completeness we add the remaining new genera of the latter fascicles of the *Fauna Italica*.

Lampanyctus Bonaparte, 139, 1834; type *LAMPANYCTUS BONAPARTEI* Bonaparte.

Chlorophthalmus Bonaparte, 144, 1834; type *CHLOROPHTHALMUS AGASSIZI* Bonaparte.

Scardinius Bonaparte, 146, 1834; type *LEUCISCUS SCARDAFA* Bonaparte.

Membras Bonaparte, 1836; type (an "exotic species" not named except by reference to Valenciennes); *ATHERINA MARTINICA* Cuv. & Val.
Replaces *KIRTLANDIA* Jordan & Evermann.

Menidia Bonaparte, 1836; type (an "exotic species" not directly named) *ATHERINA MENIDIA* L.

Hepsetia Bonaparte, 1836; type *ATHERINA BOYERI* L.
Not separable from *ATHERINA* L.

Ichthyocoris Bonaparte, 1836; type *BLENNIUS VARUS* Risso.
A synonym of *BLENNIUS* L.

CLVI (A). *RAFINESQUE, Atlantic Journal and Friend of Knowledge*, I, 1832.

CONSTANTINE SAMUEL RAFINESQUE.

Trinectes Rafinesque; type *TRINECTES SCABRA* Rafinesque (*PLEURO-NECTES MOLLIS* Mitchill).

A subgenus under *ACHIRUS*.

CLVII. *CUVIER & VALENCIENNES, Histoire Naturelle des Poissons*, IX, 1833.

GEORGES CUVIER and ACHILLE VALENCIENNES.

Hynnys Cuvier & Valenciennes, IX, 95; type *HYNNIS GORENSIS* Cuv. & Val.

Nauclerus Cuvier & Valenciennes, IX, 247; type *NAUCLERUS COMPRESSUS* Cuv. & Val.

Young of *NAUCRATES*.

Porthmeus Cuvier & Valenciennes, IX, 255; type *PORTHMEUS ARGENT-EUS* Cuv. & Val.

Psenes Cuvier & Valenciennes, IX, 259; type *PSENEs CYANOPHRYS* Cuv. & Val.

Lampugus Cuvier & Valenciennes, IX, 317; type *SCOMBER PELAGICUS* L.
Same as *CORYPHÆNA* L.

Aphredoderus (Le Sueur) Cuv. & Val., IX, 445; type *APIREDODERUS GIBBOSUS* Le Sueur (*SCOLOPSIS SAYANUS* Gilliams).
Monotypic.

CLVIII. LOWE, *Description of a New Genus of Acanthopterygian Fishes*: Proc. Zool. Soc. London, 1833.

RICHARD THOMAS LOWE.

Alepisaurus Lowe, 104; type *ALEPISAURUS FEROX* Lowe.
Monotypic. Equivalent to *PLAGYODUS* Steller, 1811.

CLIX. LOWE, *Characters of a New Genus and of Several New Species of Fishes from Madeira*: Proc. Zool. Soc. London, I, 1833. (Also repeated in other papers.)

Leirus Lowe, 142; type *LEIRUS BENNETTI* Lowe = *CENTROPHIURUS OVALIS* Cuv. & Val., 1833 = *MUPUS IMPERIALIS* Cocco, 1833.
Same as *MUPUS* Cocco of the same date. *LEIRUS* may be given precedence.

CLX. COCCO, *Lettere al Signor Risso su alcuni Pesci Novelli*: Giorn. Sci. Lett. Sicilia, XLII, no. 124, 1833.

ANASTASIO COCCO.

Tylosurus Cocco; type *TYLOSURUS CANTRAINI* Cocco (*ESOX IMPERIALIS* Rafinesque).

CLXI. COCCO, *Su Alcuni Pesci dei Mare di Messina*: Giorn. Sci. Lett. Sicilia, XLII, 1833.

Mupus Cocco, 20; type *MUPUS IMPERIALIS* Cocco (*CENTROLOPHIUS OVALIS* Cuv. & Val.).
Same as *LEIRUS* Lowe of the same date.

CLXII. COCCO, *Osservationes Peloritani*, XIII, April 1833.

Ruvettus Cocco, 1833, 18; type **RUVETTUS PRETIOSUS** Cocco.

CLXIII. NARDO, *De Skeponopodo novo piscium genere et de Guebucu Margravii; Species illi cognata*: Mem. Assem. Nat. Vienna, Isis, 1833, fasc. 416.

GIAN DOMENICO NARDO.

Skeponopodus Nardo, 416; type **SKEPONOPODUS TYPUS** Nardo (**XIPHIAS IMPERATOR** Bloch & Schneider).

A synonym of **TETRAPTURUS**.

CLXIV. AGASSIZ, *Poissons Fossiles*, 1833.

LOUIS AGASSIZ.

Catopterus Agassiz, II, 3; type **CATOPTERUS ANALIS** Agassiz.

A synonym of **DIPTERUS**.

Amblypterus Agassiz, II, 3, 28; type **AMBLYPTERUS LATUS** Agassiz.

Notagogus Agassiz, 10; type **NOTAGOGUS PENTLANDI** Agassiz.

Microps Agassiz, II, 10; type **MICROPS FURCATUS** Agassiz.

Perhaps not distinct from **PHOLIDOPHORUS**; name preoccupied in beetles, Meigen, 1823.

Pachycormus Agassiz, II, 11; type **ELOPS MACROPTERUS** Blainville.

Thrissops Agassiz, II, 12; type **THRISOPS FORMOSUS** Agassiz.

Megalurus Agassiz, II, 13; type **MEGALURUS LEPIDOTUS** Agassiz.

Aspidorhynchus Agassiz, II, 14; type **ESOX ACUTIROSTRIS** Blainville.

Saurostomus Agassiz, II, 14; type **SAUROSTOMUS ESOCINUS** Agassiz.

Near to **PACHYCORMUS**; perhaps not distinguishable.

Gyrodus Agassiz, II, 16; type **GYRODUS MACROPHTHALMUS** Agassiz (**MICRODON ABDOMINALIS** Agassiz).

Microdon Agassiz, II, 16; type **MICRODON ELEGANS** Agassiz.

Name preoccupied by Meigen, 1803, a genus of **DIPTERA**.

Pycnodus Agassiz, II, 16; type **ZEUS PLATESSUS** Blainville (**CORYPHÆNA APODA** Volta).

Cyclopoma Agassiz, IV, 17, 1833; type **CYCLOPOMA GIGAS** Agassiz.

Calamostoma Agassiz, II, 18; type **SYNGNATHUS BREVICULUS** Blainville.
Monotypic.

Acanthodes Agassiz, II, 19; type **ACANTHOËSSUS BRONNI** Agassiz.

A needless substitute for **ACANTHOËSSUS**.

Smerdis Agassiz, IV, 32, 1833; type **PERCA MINUTA** Blainville.

RECAPITULATION.

SUGGESTED CHANGES IN GENERIC NOMENCLATURE OF FISHES.

A. Changes resting in Priority.

The following changes from current Nomenclature, apparently justified by the law of priority and the accepted rules, result from the present survey.

Acanthoëssus Agassiz: in place of **ACANTHODES** Agassiz (fossil).

Alabes Cuvier: **CHEILOBRANCHUS** Richardson.

Alosa Linck: **ALOSA** Cuvier.

Anacanthus Ehrenberg: **HIMANTURA** Müller.

Anchoviella Fowler: **STOLEPHORUS** Bleeker (not Lacepède).

Apteronotus Lacepède: **STERNARCHUS** Bloch & Schneider.

Bagre Cuvier: **FELICHTHYS** Swainson, **AILURICHTHYS** Baird.

Barbatula Linck: **OREIAS** Sauvage, **ORTHRIAS** Jordan & Fowler.

Bengala Gray (1833): **MEGARASBORA** Günther, 1868.

Bodianus Bloch: **HARPE** Lacepède.

Branchiostegus Rafinesque: **LATILUS** Cuv. & Val.

Caranx Lacepède: **CARANGUS** Griffith.

Catonotus Agassiz: **ETHESTOMA** Jordan, not Raf.

Cephalopholis Bloch & Schneider: **BODIANUS** Cuv. & Val. (not Bloch).
ENNEACENTRUS Gill.

Chelon Röse: **CHÆNOMUGIL** Gill.

Citharus Röse: **EUCITHARUS** Gill.

Clupanodon Lacepède: **KONOSIRUS** Jordan & Snyder.

Conger Houttuyn: **CONGER** Cuvier.

Corvina Cuvier: **SCIÆNA** Jordan & Evermann (not of Cuvier), **CORACINUS** Pallas.

Curimata Walbaum: **CURIMATUS** Cuvier.

Diapterus Ranzani: **GERRES** Jordan & Evermann (not of Quoy & Gaimard).

Echeneis L.: **LEPTECHENEIS** Gill.

Echelus Rafinesque: **MYRUS** Cuvier.

Etheostoma Rafinesque: **DIPLESION** Raf.

- Eucentrarchus** Gill: **CENTRARCHIUS** Jordan & Evermann (not of Cuv. & Val.).
Gaidropsarus Rafinesque: **MOTELLA** Cuvier.
Gerres Cuvier: **XYSTÆMA** Jordan & Evermann.
Gnathanodon Bleeker: (**CARANX SPECIOSUS**).
Hemiulius Swainson (as restricted by Bonaparte, 1839): **HALICHÆRES** Rüppell, **CHÆROJULIS** Gill.
Histrio Fischer: **PTERYPIRYNE** Gill, **PTEROPHYRNOIDES** Gill.
Hoplias Gill: **MACRODON** Müller & Troschel.
Hypacanthus Rafinesque: **CAMPTOGRAMMA** Regan.
Inimicus Jordan & Starks: **PELOR** Cuv. & Val.
Leucichthys Dybowski: **ARGYROSOMUS** Agassiz.
Lycodontis McClelland: **GYMNOTHORAX** Günther (not of Bloch).
Macrodon Schinz: **ANCYLODON** Cuvier, **SAGENIICHTHYS** Berg.
Macrognathus Lacepède: **RIIYNCHIOBELLA** Bloch & Schneider.
Macrorhynchus Lacepède: **DICROTUS** Günther.
Membras Bonaparte: **KIRTLANDIA** Jordan & Evermann.
Merolepis Rafinesque: (**SMARIS ZEBRA**).
Micrometrus Gibbons: **ABEONA** Girard.
Mola Kœlreuter: **MOLA** Cuvier.
Mugiloides Lacepède: **PINGUIPES** Cuvier.
Narke Kaup: **ASTRAPE** Gray.
Naso Lacepède: **MONOCEROS** Bloch & Schneider.
Ompok Lacepède: **CALlichthys** Hamilton.
Ovoides Cuvier: **OVOIDES** Lacepède.
Pastinachus Rüppell: **HYPLOPHIUS** Müller & Henle.
Pentanemus Günther: **POLYNEMUS** Gill (not of L. as restricted).
Peprilus Cuvier: **RHOMBUS** Lacepède.
Phycis Röse: **PHYCIS** Bloch & Schneider.
Plagyodus Steller: **ALEPISAURUS** Lowe.
Pœcilichthys Agassiz: **ETHEOSTOMA** Jordan & Evermann (not of Rafinesque as restricted).
Polynemus L.: **POLYDACTYLUS** Lacepède.
Porcus St. Hilaire: **BAGRUS** Cuv. & Val.
Quinquarius Jordan: **PENTACEROS** Cuvier.
Remora Forster: **REMORA** Gill.
Sardina Antipa (**S. PILCHARDUS**).
Sardinella Val., **AMBLYGASTER** Bleeker, **SARDINIA** Poey.
Sciæna L.: **ARGYROSOMUS** De la Pylaie, **PSEUDOSCIÆNA** Bleeker.
Scylliorhinus Blainville: **CATULUS** Smith.

Sphyræna Röse: SPHYRÆNA Bloch & Schneider.
Spicara Rafinesque: SMARIS Cuv.
Stolephorus Lacepède: SPRATELLOIDES Bleeker.
Syngnathus L.: SIPHOSTOMA Raf.
Thrissocles Jordan*: THRYSSA Cuvier.
Thymallus Linck: THYMALLUS Cuvier.
Tor Gray (1833): LABEOBARBUS Bleeker.
Torpedo Houttuyn: TORPEDO Duméril.
Trisopterus Rafinesque: MORUA Risso, BRACHYGADUS Gill.
Typhlinus Rafinesque: TYPHLE Rafinesque, SIPHONOSTOMUS Kaup.
Xystramia † Jordan: GLOSSAMIA Goode & Bean (not of Gill).
Zoramia ‡ Jordan: MIONORUS Jordan & Seale (not of Krefft).

B. Changes resulting from the operations of Opinions 20, 37.

Taking the precedent of Opinion 20, which admits as eligible the generic names of Gronow, and that of 37, admitting those of Brisson, the following changes seem necessary, the status of Klein being almost identical with that of Gronow.

Amia Gronow: instead of APOGON Lacepède.
Amiatus Rafinesque: AMIA L.
Brama Klein: ABRAMIS Cuvier.
Callyodon Gronow: SCARUS Forskål.
Cestracion Klein: SPHYRNA Rafinesque.
Coracinus Gronow: DIPTERODON Cuvier.
Cyclogaster Gronow: LIPARIS Scopoli.
Dasybatus Klein: DASYATIS Rafinesque.
Enchelyopus Gronow: ZOARCES Cuvier.
Glaucus Klein: HYPODIS Rafinesque, CÆSIOMORUS Lacepède.
Hepatus Gronow: TEUTHIS L., ACANTHURUS Forskål.
Labrax Klein: DICENTRARCHUS Gill.
Lepodus Rafinesque: BRAMA Bloch & Schneider.
Leuciscus Klein: LEUCISCUS Cuvier.
Mænas Klein: MÆNA Cuvier.
Mystus Gronow: HYPSELOBAGRUS Günther.
Narcacion Klein: NARCOBATUS Blainville.

* Type CLUPEA SETIROSTRIS Broussonet.

† Type GLOSSAMIA PANDIONIS Goode & Bean: See *Copea*, 1917, p. 46.

‡ Type APOGON GRÆFFEI Günther: See *Copea*, 1917, p. 46.

Pristis Klein: PRISTIS Linck.
 Prochilus Klein: PHOLIS Cuv. & Val. (preoccupied).
 Pseudopterus Klein: PTEROIS Cuvier.
 Rhina Klein: SQUATINA Duméril.
 Rhinobatus Klein: RHINOBATUS Linck.
 Rhombus Klein: BOTIUS Rafinesque.
 Sargus Klein: DIPLODUS Rafinesque, SARGUS Cuvier.
 (new name) CICILLA Bloch & Schneider.
 (new name) SOLENOSTOMUS Lacepède.

C. Changes resulting from the operations of Opinion 24, which legalizes the names of Commerson in Lacepède. Those of Plumier in Lacepède are precisely similar.

Alticus Commerson: in place of RUPISCARTES Swainson.
 Cheloniger Plumier: CONODON Cuvier.
 Chromis Plumier: UMBRINA Cuvier. Unless CROMIS Browne is accepted.
 Encrasicholus Commerson: ANCHOVIELLA Fowler.
 Pagrus Plumier: NEOMÆNIS Girard.
 Sarda Plumier: OCYURUS Gill.
 (new name) PAGRUS Cuvier.
 (new name) SARDA Cuvier.
 (new name) ODAX Cuvier.

D. Hypothetical changes in Nomenclature according to the law of priority but doubtfully eligible, being revised reprints or translations of pre-Linnæan authors; apparently to be rejected under Opinion 57.

Albula Osbeck: SALANX Cuvier.
 Apocryptes Osbeck: A valid genus, near BOLEOPHTHALMUS Bloch & Schneider.
 Butyrinus Lacepède: ALBULA Gronow.
 Cromis Browne: POGONIAS Lacepède.
 Heliases Cuvier: CHROMIS Cuvier.
 Helops Browne: BODIANUS Bloch.
 Menidia Browne: ANCHOVIELLA Fowler, ENCRASICHOLUS Commerson.
 Pelmatia Browne: GOBIOMORUS Lacepède, PHILYPNUS Cuvier.
 Plagusia Browne: SYMPHURUS Rafinesque.
 Rhomboida Browne: VOMER Cuvier.
 Saurus Browne: OLIGOPLITES Gill.

E. Changes as under D but the alleged generic names, perhaps to be regarded as Latin vernaculars.

Acus Catesby: PSALISOSTOMUS Klein, LEPISOSTEUS Lacepède.

Alburnus Catesby: MENTICIRRUS Gill.

Bagre Catesby: AMEIURUS Rafinesque.

Harengus Catesby: HARENGULA Cuv. & Val.

Salpa Catesby: NEOMÆNIS Girard.

Saltatrix Catesby: POMATOMUS Lacepède.

Solea Catesby: PLATOPHRYS Swainson.

Suillus Catesby: LACHNOLAIMUS Cuvier.

Unicornis Catesby: OSBECKIA Jordan & Evermann.

(new name) ALBURNUS Rafinesque.

(new name) SOLEA Quensel.

F. Changes in accord with the law of priority, but questionable on account of irregularities not yet passed upon by the Commission of Nomenclature.

Abuhamrur Forskål: PRIACANTHUS Cuvier.

Asper Schæfer: ASPRO Cuvier.

Asperulus Schæfer: ZINGEL Oken.

Cernua Schæfer: ACERINA Gùldenstadt, GYMNOCEPHALUS Bloch.

Daba Forskål: EPINEPHELUS Bloch.

Djabub Forskål: THERAPON Cuvier.

Galeus Valmont: PRIONACE Cantor.

Gaterin Forskål: PLECTORHYNCHUS Lacepède.

Ghanan Forskål: SCOLOPSIS Cuvier.

Hobar Forskål: LUTIANUS Bloch.

Louti Forskål: VARIOLA Swainson.

Mustelus Valmont: CYNIAS Gill.

Pleuracromylon Gill: MUSTELUS Leach.

Quinquarius Jordan: PENTACEROS Cuvier.

Ramphistoma Rafinesque: BELONE Cuvier.

Schour Forskål: LETHRINUS Cuvier.

Schraitzer Schæfer: LEPTOPERCA Gill.

Tahmel Forskål: KYPHOSUS Lacepède.

Vulpecula Valmont: ALOPIAS Rafinesque.

G. Changes due to virtual preoccupation of names now in use.

If we follow the current practice of regarding generic names in words otherwise similar and from identical roots, the same word if differing

only in gender, in the presence or absence of the initial *h* in words of Greek origin, or by the use of *i* or *o* as a connective, the following changes are necessary in the current nomenclature, as given by Jordan & Evermann, *Fishes N. M. America*, 1898.

Cenisophius Bonaparte: in place of **LEUCOS** Heckel, on account of the earlier **LEUCUS**.

Centridermichthys Richardson: **TRACHIDERMUS** Heckel; **TRACHYDERMA**.

Cheilonemus * Baird: **LEUCOSOMUS** Heckel; **LEUCOSOMA**.

Cremnobates Günther: **AUCHENIPTERUS** Günther; **AUCHENOPTERUS**.

Cynicoglossus Bonaparte: **MICROSTOMUS** Gottsche; **MICROSTOMA**.

Eudulus Fowler: **DULES** Cuvier; **DULUS**.

Evermannellus Fowler: **ODONTOSTOMUS** Cocco; **ODONTOSTOMA**.

Haloporphyrus Günther: **LEPIDION** Swainson; **LEPIDIA**.

Hemiulis Swainson (as restricted by Bonaparte, 1839); **HALICHÆRES** Rüppell; **HALICHÆRUS**.

Hypolophus Müller: **PASTINACHUS** Rüppell; **PASTINACA**.

Nebrodes Garman: **NEBRIUS** Rüppell; **NEBRIA**.

Notoscopelus Günther: **MACROSTOMA** Risso; **MACROSTOMUS**.

Pisciregia Abbott: **GASTROPTERUS** Cope; **GASTROPTERON**.

Podateles Boulenger: **ATELEOPUS** Schlegel; **ATELOPUS**.

Quassilabia Jordan & Brayton: **LAGOCHILA** J. & B.; **LAGOCHEILUS**.

Scaphirhynchops Gill: **SCAPHIRHYNCHUS** Heckel; **SCAPHORHYNCHUS**.

Scytaliscus Jordan & Gilbert: **SCYTALINUS** J. & G.; **SCYTALINA**.

Stenesthes † Jordan: new name for **STENOTOMUS** Gill; **STENOTOMA**.

Thrissoles Jordan: new name for **THIRYSSA** Cuvier; **THRISSA**.

Xiphister Jordan & Gilbert: **XIPHIIDION** Girard; **XIPHIIDIUM**.

H. Questionable cases, similar to G.

Catochænum Cantor: **GERRES** Cuvier, on account of the prior **GERRIS**.

Centracion Gray: **HETERODONTUS** Blainville; **HETERODON**.

Choregon Minding: **THYMALLUS** Cuvier; **THYMALUS**.

Corythobatus Cantor: **MINOUS** Cuv. & Val.; **MINOIS**.

(new name) **CHLOËA** Jordan & Snyder; **CHLOËIA**.

(new name) **GRAMMA** Poey; **GRAMMIA**.

(new name) **NEBRIS** Cuvier; **NEBRIA**; **NEBRIUS**.

* Type **CYPRINUS CORPORALIS** Mitchell, **CYPRINUS BULLARIS** Rafinesque.

† Type **SPARUS CHRYSOPS** L.

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In the following list, the names of genera apparently valid are left unmarked; *d* indicates doubt of one form or another; *s* indicates synonyms, apparently never to be revived or added to the system.

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A CONTRIBUTION TO THE STABILITY OF SCIENTIFIC NOMENCLATURE

BY

DAVID STARR JORDAN

Chancellor-Emeritus of Stanford University

Member of the International Commission of Zoological Nomenclature

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Abbreviations of author names, where used, following words in small capitals are as follows:

Ag. Agassiz	J. & G. Jordan & Gilbert
B. & C. Bocage & Capello	J. & E. Jordan & Evermann
Baird & Grd. Baird & Girard.	K. & S. Kner & Steindachner
Barn. Barneville	Kölr. Kölreuter
Beyr. Beyrich	L. Linnæus
Bl. & Schn. Bloch & Schneider.	Lac. Lacépède
Blainv. Blainville	Lank. Lankester
Blkr. Bleeker	M. & H. Müller & Henle
Bon. Bonaparte	M. & T. Muller & Troschel
Cuv. Cuvier	McCl. M'Clelland
Cuv. & Val. Cuvier & Valenciennes.	Q. & G. Quoy & Gaimard
Dum. Duméril	Raf. Rafinesque
Egert. Egerton	Ranz. Ranzani
Ehrenb. Ehrenberg	Reinh. Reinhardt
Eichw. Eichwald	Rich. Richardson
G. & B. Goode & Bean.	Steind. Steindachner
Grd. Girard	Sw. Swainson
Gthr. Gunther	T. & S. Tenison-Woods & Schlegel
Guich. Guichenot	Val. Valenciennes
Ham. Hamilton	Woodw. Woodward

INTRODUCTORY NOTE

This present memoir is a continuation of a paper entitled, *The Genera of Fishes, from Linnaeus to Cuvier, 1758-1833, seventy-five years, with the accepted type of each, a contribution to the stability of scientific nomenclature*, published by the present writer in 1917.

It is likewise a contribution to the stability of scientific nomenclature. It covers what may be termed the mediæval period of systematic ichthyology, the time in which nomenclature is fairly established, but in which, for want of a general zoological record, many papers have been overlooked or forgotten.

This period is especially marked by the studies of Professor Agassiz on the fossil fishes, by the exhaustive record of the fishes of the East Indies by Dr. Bleeker, and by the unification of ichthyological knowledge by Valenciennes and by Dr. Günther. Günther's *Catalogue of the Fishes of the British Museum*, 1859-1870, must always remain the solid foundation on which systematic zoology is built. This period is also marked by the studies in comparative zoology by Dr. Johannes Müller and by the opening to science of the rich fresh-water fauna of North and South America. In this period wrote also the keenest of taxonomic critics, Dr. Gill, whose conceptions of genera and of families are likely in a large degree to constitute the last word in regard to the status of groups of this grade. Other notable writers whose work has been of a high order are Richardson, Schlegel, Lowe, Egerton, Reinhardt, Poey, Heckel, Kner, Pictet, Holbrook, Baird, Troschel, Owen, McClelland, Rüppell, Henle, Storer, DeKay, Ayres, Cooper, Girard and Cope. Of the many writers in the period preceding the year 1870, Steindachner only, one of the most industrious and accurate, is still living. When the writer visited him in Vienna in 1913 he was still, at the age of 79, hard at work, and one important paper of his bearing date of 1915 has found its way through the vicissitudes of censorship to my library.

In accordance with the philosophy of evolution, the writers at the end of this period have inverted the fish series, the simplest and most ancient types being placed first in taxonomic records, rather than the perch and its relatives, so long regarded as typifying the perfect or completed fish.

Compilations of this sort constitute an exercise in modesty. They can never be made absolutely complete nor free from errors. In the present case, the author cannot be certain that the genotype he indicates is actually the one chosen by the first reviser. The compilation itself deals with the work of great minds, but also with a degree of ignorance, carelessness and perversity by which names were multiplied with no corresponding increase of ideas. Synonymy in general is the index of lack of actual knowledge, or else, of the failure to deal justly with the work of others, "a burden and a disgrace to science". No system of naming can be beyond the knowledge on which it rests. Ignorance of fact produces confusion in nomenclature.

The science of ichthyology, to which the present series of papers offers a kind of key, is the work of many scholars, each in his own field, each contributing a series of facts, a series of tests of the work of others, or else some improvement in the method of arrangement. As in other branches of science, this work has been done by sincere, devoted men, impelled by a love for this kind of labor, and having in view, as "the only reward they asked, a grateful remembrance of their work". And as future generations may be lenient towards our own shortcomings, we should be generous towards those of our predecessors.

In so far as the present paper assumes to decide questions of nomenclature, it follows strictly the rules agreed on by the International Commission. Of these, the one of most vital importance is concerned with the rigid enforcement of the law of priority.

The writer expresses his special obligation to Mr. Barton A. Bean of the United States National Museum, and to Henry Weed Fowler of the Academy of Natural Sciences of Philadelphia for services in examining rare or forgotten books, and to Mr. Masamitsu Oshima, for valuable aid in compilation. He is also under special obligations to Mr. R. A. Nelgner of the Stanford University Press for his care in ensuring accuracy in this difficult piece of work. In arranging the genera of fossil fishes, he has depended almost entirely on the *Catalogue of the Fossil Fishes in the British Museum*, by Arthur Smith Woodward. The cataloguing of the scattered and multifarious genera of Dr. Bleeker has been made possible by the *Index of the Ichthyological Papers of P. Bleeker*, by Dr. Max Weber and Dr. L. F. de Beaufort. In matters of citation of titles Dean's *Bibliography of Fishes* has been absolutely indispensable. The writer hopes to complete this work by a final paper covering the period from 1859 to 1920. The need of such compilation grows progressively less, as the *Zoological Record* of London, beginning with 1864, contains references to nearly all the generic names of subsequent date, although having occasional surprising omissions.

The writer asks for additions and corrections, that the work may be as helpful as possible to students of fishes.

It will be noted that the genera have been arranged as far as may be in chronological order, publications of the same year being arranged in alphabetical order in accord with the names of authors.

The term *orthotype* is applied to the type of a genus as indicated or distinctly implied by the original author. A *logotype* is one selected by the "first reviser". A *haplotype* is the sole species named under a genus, therefore of necessity an *orthotype* as well. A *tautotype* is a name of a genus identical with the specific name of one of its components.

STANFORD UNIVERSITY, CALIFORNIA,
November 11, 1918; Issued July, 1919.

ADDITIONS AND CORRECTIONS TO PART I.

1758

1. LINNÆUS (1758). *Systema Naturæ*. Ed. X, Vol. I.

CARL LINNÉ (CAROLUS LINNÆUS). (1707-1778.)

Trigla Linnæus, 300; logotype *T. GURNARDUS* L., as restricted by Kaup, 1873. Apparently this should replace the later restriction to *T. LYRA* L. of Jordan & Gilbert, 1883, this species being type of *LYRICHTHYS* Kaup.

Mormyrus Linnæus, 327; logotype *M. CASCHIVE* Hasselquist, as restricted by Gill. (Not *M. CYPRINOIDES* L., as stated in part I, page 15; this species is the type of *MARCUSENIUS* Gill.)

Tetraodon Linnæus, 332; logotype *T. LINEATUS* L. I am compelled to revise my judgment, as given in part I of the *Genera of Fishes*, page 15, in which I present the reasons for regarding *T. TESTUDINEUS* L. as the type of *TETRAODON*. This judgment is based on Bleeker's restriction of the genus in 1865. I find that an earlier restriction was made by Bonaparte in the *Fauna Italica*, about 1841, "*TETRAODON LINEATUS* Bloch" being taken as type following a suggestion of Swainson. Bloch's account includes the synonymy and description of *T. LINEATUS* L., although the figure he offers may have been based on an example of *T. STELLATUS*.

In this view of the case, the type of *TETRAODON* should be *T. LINEATUS*, a fresh-water species of the Nile, with which the numerous marine species called *OVIDES* (*AROTHRON*) may not be congeneric. According to Dr. Gill, the type of *TETRAODON* is distinguished from the Pacific species known as *OVIDES* by the form of the frontal bones, a matter which needs further elucidation.

In this view the name *SPHEROIDES* should stand, as used by Jordan and Evermann, for the allies of *T. TESTUDINEUS* L.

1764

7. HOUTTUYN (1764). *Naturlike historie volgens den Heer Linnæus*.

MARTIN HOUTTUYN.

Conger Houttyn, VII, 103, and **TORPEDO** Houttuyn, VII, 453, as quoted in *Genera of Fishes*, page 22, are not presented by Houttuyn as generic names, and the reference to them should be canceled.

In a personal letter dated August 23, 1918, Mr. C. Davies Sherborn says: "**TORPEDO** is the trivial Linnean name of the species *RAJA TORPEDO* and **CONGER** is the trivial Linnean part of the species name *MURENA CONGER*. Neither name is used scientifically nor is there any intention on Houttuyn's part to do more than quote the Linnean term for the fish he describes as 'KRAMPFISCH' and 'CONGER'."

The record of this work of Houttuyn should therefore be erased as having no relation to scientific nomenclature.

1767

9. MÜLLER (1767). *Delinæationes Naturæ*. II, 141

PHILIP LUDWIG STATIUS MÜLLER (1725-1776)

Mr. Sherborn informs me that the generic names *ACUS*, page 141, and

ORBIS, page 141; "are perfectly valid," that is, properly presented as generic names. ACUS is a synonym of SYNGNATHUS L., ORBIS of DIODON L.

10. GEOFFROY (1767). *Descriptions de 719 plantes*, etc.

ÉTIENNE LOUIS GEOFFROY (1725-1810).

Ichthyocolla Geoffroy, 399; haplotype ACIPENSER HUSO L. This replaces HUSO Brandt, and STERLETUS Raf. Mr. Sherborn informs me that the generic names used by Geoffroy are "perfectly valid" for purposes of nomenclature. These are:

ICHTHYOCOLLA, 399, (HUSO Brandt).

HARENGUS, 405, (CLUPEA L.).

LUCIUS, 467, (ESOX L.).

TRUTTA, 719, (TRUTTA L.).

1772

17A. GRONOW (1772). (*Pteraclis*.) Actæ Helveticæ. VII.

LORENZ THEODOR GRONOW (LAURENTIUS THEODORUS GRONOVIVS). (1730-1777).

Pteraclis Gronow, 44; orthotype P. PINNATA GRONOW = CORYPHÆNA VELIFERA Pal-las. As here used, unquestionably binomial.

17B. GÜLDENSTÄDT (1772). (*Sterleta*.) Nov. Comm. Sci. Petropoli, XVI.

ANTON JOHANN GÜLDENSTÄDT.

Sterleta GÜldenstädt, 533; type ACIPENSER RUTHENUS L. under polynomial designation. If eligible, will replace STERLETUS Brandt and STERLEDUS Bon.

1775

20. KLEIN (1775). *Neuer Schauplatz*, etc.

JAKOB THEODOR KLEIN (1685-1759).

Prochilus Klein, I, 1043; AMPHIPRION EPHIPPIMUM Bloch, as restricted by Bleeker, 1877 (P. OVATÆ FIGURÆ MACULA FUSCA MAGNA Klein). This name, if deemed eligible from the date of the *Schauplatz* would replace AMPHIPRION Bl. & Schn., instead of PHOLIS Cuv. & Val. (LIPOPHRYS Gill), as suggested in part I of this work.

1779

31A. KLEIN (1779). *Neuer Schauplatz*, etc.

JAKOB THEODOR KLEIN.

Platystacus Klein, VIII, 52, 1779; type (P. COTYLEPHORUS Bloch); a synonym of ASPREDO (Gronow) Scopoli.

1788

31B. BRÜNNICH (1788). *Om den islandske fisk Vaagmacren (Gymnogaster arcticus)*. Kong. Dansk. Selsk. Skr., III, 408-413.

MORTEN THIRANE BRÜNNICH (1737-1827)

Gymnogaster Brünnich, III, 408; orthotype G. ARCTICUS Brünnich. A synonym of TRACHIPTERUS Gouan. Not TRICHIURUS L.

1795

45. BLOCH (1795). *Naturgeschichte der ausländischen Fische*. IX.

MARK ELIESER BLOCH (1729-1799).

Gymnothorax Bloch IX, 83, 1795; type as first restricted (Bleeker, 1864) G. RETICULARIS Bloch. Although originally virtually a substitute name for MURÆNA L., the first fixation of types separates the two. GYMNOTHORAX thus replaces LYCODONTIS McCl.

1796

47. VOLTA (1796). *Ichthyolithologia Veronese*

GIOVANNI SERAFINO VOLTA.

Monopteros Volta, CXCL; orthotype *M. gigas* Volta (fossil). Replaces PLATINX Ag. MONOPTERUS Lac., 1798, is thus preoccupied and must give way to FLUTA Bl. & Schn. (1801).

1801

55 BLOCH & SCHNEIDER (1801). *Systema Ichthyologiae*.

MARK ELIESER BLOCH; JOHANN GOTTLÖB SCHNEIDER (1750-1822).

Periophthalmus Bloch & Schneider, 63; logotype, as first restricted (by Gill, 1863) *Gobius schlosseri* Pallas. The name therefore replaces PERIOPHTHALMODON Blkr., while the common species known as PERIOPHTHALMUS BARBARUS or P. KOELREUTERI is the type of EUCHORISTOPUS Gill (1863).

Synanceja Bloch & Schneider, 194; logotype *S. verrucosa* Bl. & Schn., as first restricted by Müller, 1843. This limitation to species without vomerine teeth holds as against Bleeker's restriction to the first species named, *S. horrida*. SYNANCEJA thus replaces SPURCO Commerson, SYNANCEICHTHYS Blkr. and EMMYDRICHTHYS Jordan & Rutter. *S. horrida* is type of SYNANCIDIUM Müller. I am not convinced by Bleeker's statement that SYNANCIDIUM is not a valid genus.

Fluta Bloch & Schneider, 565; orthotype MONOPTERUS JAVANENSIS Lac. Name a substitute for MONOPTERUS Lac. (1798). The latter is preoccupied by MONOPTEROS Volta (1796). The type species should stand as FLUTA ALBA (Zuicuw).

1803

56. LACÉPÈDE (1803). *Histoire naturelle des poissons*. IV, V.

BERNARD GERMAIN LACÉPÈDE (1756-1825).

Enoplosus Lacépède, IV, 540; orthotype CHÆTODON ARMATUS Shaw. This genus dates from 1803. The name ENOPLUS was not used by White in 1790.

Stolephorus Lacépède, V, 381; logotype *S. commersonianus* Lac. In view of the fact that the descriptions of STOLEPHORUS of Lacépède, Bleeker and Jordan were drawn from this species, the second-named by Lacépède, it may well be regarded as the type of STOLEPHORUS. *S. japonicus*, the first-named species and the one first formally indicated as type, was very scantily described, and was unknown to authors until very recently. In this view STOLEPHORUS will replace or include ANCHOVELLA Fowler (1911). This reverses the decision in part I, page 67.

1804

56A LACÉPÈDE (1804). *Mémoires sur plusieurs animaux de la Nouvelle Hollande*, etc. Ann. Mus. Nat. Hist., IV, 1804.

BERNARD GERMAIN LACÉPÈDE.

Prionurus Lacépède, IV, 211; orthotype *P. microlepidotus* Lac.

Platypodus Lacépède, IV, 211; orthotype *P. furca* Lac.

This genus, overlooked by subsequent writers, seems to belong to the OSPHRONEMIDÆ, an ally of MACROPUS. It is said to have large fan-like ventrals of at least eight rays, the dorsal extending from the nape to the base of the caudal, which is narrow, forked, its lobes half as long as rest of body, pectorals small; anal very low. This may be, as suggested by Dr Gunther for MACROPUS, a domesticated form of POLYACANTHUS. Both names, if correctly written (MACROPUS; PLATYPUS), are preoccupied

- 56B. BORY DE SAINT VINCENT (1804). *Voyage dans les quatre principales îles des Mers d'Afrique*. 1801 et 1802.

JEAN BAPTISTE BORY DE ST. VINCENT (1780-1846).

- Acinacea** Bory de St. Vincent, I, 93; orthotype *A. NOTHA* Bory ("l'acinacée bâtarde"). An ally of *THYRSITES* Cuv., overlooked by authors. It differs from *THYRSITES* (ATUN), if correctly described and figured, in the presence of twenty-nine spines in the dorsal fin, instead of twenty. The type specimen was from the open sea, off Africa. If identical with *THYRSITES*, *ACINACEA* has priority. The Latin form as well as the French is given by the author.

1808

67. DUMÉRIL (1808). *Dissertation sur les poissons Cyclostomes*.

ANDRÉ MARIE CONSTANT DUMÉRIL (1774-1860).

- Ammocœtus** Duméril; orthotype *PETROMYZON BRANCHIALIS* L. (larval form of *PETROMYZON MARINUS* or of *LAMPTERA PLANERI*, or both). Best treated as a synonym of *PETROMYZON*.

1810

72. RAFINESQUE (1810). *Caratteri di alcuni nuovi generi e nuove specie di animale e piante della Sicilia*.

CONSTANTINE SAMUEL RAFINESQUE (1783-1840).

- Typhle** Rafinesque, 18; orthotype *SYNGNATHUS TYPHLE* L. We are unable to find any further notice of the blind genus of mammals "TYPHLE", as noted by Lacépède. *TYPHLE* should therefore apparently stand, and not be replaced by *TYPHLINUS* Raf. (1814).

1811

- 75A. PERRY (1811). *Arcana or Museum of Natural History*.

GEORGE PERRY.

- Congiopus** Perry; orthotype *C. PERCATUS* Perry = *BLENNIUS TORVUS* Walbaum. Replaces *AGRIOPUS* Cuv., 1829.

- 75B. HUMBOLDT & VALENCIENNES (1811). *Recherches sur les poissons fluviatiles; Humboldt & Bonpland; voyage aux régions équinoxiales du nouveau continent*. II (later edition; the original in 1806).

FRIEDRICH HEINRICH ALEXANDER VON HUMBOLDT (1769-1859); ACHILLE VALENCIENNES (1794-1865).

- Thrycomycterus** Humboldt & Valenciennes; orthotype *T. NIGRICANS* Humboldt & Val; a synonym of *EREMOPHILUS* Humboldt, according to Eigenmann. Name spelled *TRICHOMYCTERUS* by Valenciennes in 1846, and the genus made to include *PYGIDIUM* Meyer.

1815

85. RAFINESQUE (1815). *Analyse de la nature*, etc.

CONSTANTINE SAMUEL RAFINESQUE.

- Raphistoma** Rafinesque, 89; no type named and no diagnosis, except an erroneous reference to Lacépède. Intended to represent *ESOX BELONE* L. Spelled *RAMPHISTOMA* by Swainson, who adopts the name. Is apparently not eligible in place of *BELONE* Cuv., 1817, though an argument might be made for its acceptance, as we know the type intended and there are a few words of inaccurate diagnosis.

Eleuthurus Rafinesque; no diagnosis and no type given. Omitted by inadvertence in *Genera of Fishes*, part I. According to Bleeker, Rafinesque's names (undefined and without type), DAMEUS, ELEUTHURUS, RINCOXIS and ZERRISCIUM, were intended for eels). In the account of Rafinesque's *Analyse*, given in *Genera of Fishes*, part I, are a few misprints arising from misreading a manuscript list. Read:

ICTIAS, p. 82.
 BATRICTIUS, 82.
 CEPHIMNUS, 85.
 EDONIUS, 88.
 PLATISTUS, 89 (for PLATYSTACUS).
 RAPIHISTOMA, 89.
 ODAMPIUS, 89.
 GONODERMUS, 91.
 DISPINOTUS, 92.

1817

91. CUVIER (1817). *Le Règne Animal*, etc. Tome II.

GEORGES CUVIER (1769-1832).

Hydrocynus Cuvier, II, 167; logotype II. FORSKALI Cuvier; several species named, the genus restricted by Cuvier (*Mem. Mus.*, 1819) to II. FORSKALI, and the name spelled HYDROCYON. Also in *Cuv. & Val.*, XXII, 509, 1849. The name was afterwards restricted to II. LUCIUS Cuv., a species of NIPHSTOMA, Ag., but the first adjustment must stand. The name is HYDROCYNUS and the genus contains no American species.

Bodianus Cuvier, *Règne Animal*, II, 276; logotype BODIANUS GUTTATUS Bloch; (not BODIANUS of Bloch) which by tautonomy goes with BODIANUS BODIANUS Bloch, and replaces HARPE Lac. Gill restricts BODIANUS (*Proc. Acad. Nat. Sci. Phil.*, 1862, 237) to B. GUTTATUS Bloch, a species of CEPHALOPHOLIS Bl. & Schn. By the rule of tautonomy, under present rules BODIANUS must stand for HARPE RUEA.

92 OKEN (1817). *Isis*.

LORENZ OKEN (1777-1851).

In *Isis*, 1817, Oken furnishes Latin equivalents to the French generic names used by Cuvier.

Lumpus Oken 1782, orthotype CYCLOPTERUS LUMPUS L. = LUMPUS ANGLORUM of authors. Equivalent for "les LUMPS" of Cuvier, a synonym of CYCLOPTERUS L. Omitted by accident in part I.

1818

97. BLAINVILLE (1818). (*Poissons fossiles*.) Nouveau Dictionnaire d'Histoire Naturelle.

HENRI MARIE DUCROTAY DE BLAINVILLE (1777-1850).

Anormurus Blainville, XXVII, 374; orthotype A. MACROLEPIDOTUS Blainv. (fossil) Perhaps the same as NOTOGONEUS Cope, 1885.

1820

108 GOLDFUSS (1820). *Handbuch der Zoologie*. II.

GEORGE AUGUST GOLDFUSS (1782-1848).

Rhomboides Goldfuss; orthotype PLEURONECTES RHOMBUS L. Substitute for RHOMBUS Cuv.; a synonym of BOTHUS Raf

Batrachopus Goldfuss (not BATRACHOPS). Orthotype *LOPHIUS COMMERSONIANUS* Lac. A synonym of *ANTENNARIUS*.

1822

110. HAMILTON (1822). *An Account of the Fishes Found in the River Ganges and Its Branches*.

FRANCIS HAMILTON (formerly BUCHANAN) (1762-1829).

The reprint of Hamilton's *Fishes of the Ganges* has the pagination changed from that given in the text of the *Genera of Fishes*, page 114. Thus, in the reprint, *CHANDA* appears on page 109, not 370.

Callichrous Hamilton, 149; logotype *SILURUS PAEDA* Ham. (as restricted by Bleeker, 1862). A synonym of *OMPOK* Lac.

Coius Hamilton, 369 (95); logotype *COIUS POLOTA* Ham., as restricted by Fowler, 1905. This designation of type prior to that of Jordan, 1917. Replaces *DATNIOIDES* Blkr., 1853.

Chanda Hamilton, 370; logotype *CHANDA NAMA* Ham. (fig. 37) (*HAMILTONIA OVATA* Sw.). The type of the substitute name *HAMILTONIA* Sw. (1839) as indicated by Swainson and by Swain (1882) carries the complex genus *CHANDA* with it. This antedates Fowler's choice (1902) of *CHANDA LALA* as type. *C. NAMA* is type of *BOGODA* Blkr. *CHANDA* should therefore replace *BOGODA*.

Corica Hamilton, 253 or 383; orthotype *CYPRINUS SOBORNA* Ham. The name *SOBORNA* (misspelled in the *Genera of Fishes*, page 115) is given as *GUBORNI* by Gray.

1823

112. VAN HASSELT (1823). *Poissons de Java*. Allgemeine Konst en Letterbok. II. JAN CENRAD VAN HASSELT (d. 1821).

Dermogenys Van Hasselt, 131; orthotype *D. PUSILLUS* Van Hasselt (omitted in part I). Spelled *DERMATOGENYS* by Peters.

Diplocheilus Van Hasselt, 329; orthotype *D. ERYTHOPTERUS* Van Hasselt.

Gonostoma Van Hasselt, 329; orthotype *G. JAVANICUM* Van Hasselt. Name preoccupied; replaced by *ANODONTOSTOMA* Blkr.

1825

119. KÖNIG (1825). *Icones fossilium sectiles*.

CLEMENS KÖNIG.

Teratichthys König, 4; orthotype *T. ANTIQUITATIS* König (fossil). An unknown ally of *CARANX*.

119A. LE SUEUR (1825). *Description of a New Fish of the Genus Salmo* (*S. microps*). Journ. Acad. Nat. Sci. Phila.

CHARLES ALEXANDRE LE SUEUR (1778-1846).

Harpodon Le Sueur, V, 50; orthotype *SALMO MICROPS* Le Sueur = *OSMERUS NEHEREUS* Ham.

119B. ADANSON (1825). *Cours d'histoire naturelle*.

MICHAEL ADANSON (1727-1806).

Trygon Adanson, II, 170; orthotype *RAJA PASTINACA* L. A synonym of *DASYATIS* Raf. (According to Auguste Duméril, Adanson's paper, written in 1772, was printed by Payer in 1825).

1826

121. RISSO (1826). *Histoire naturelle des principales productions de l'Europe méridionale.*

ANTOINE RISSO (1770-1845).

Charax Risso, III, 353; orthotype *C. ACUTIROSTRIS* Risso = *SPARUS PUNTAZZO* L. Preoccupied; replaced by *PUNTAZZO* Blkr.

- 121A. RILEY (1826). *On a Fossil in the British Museum (Squaloraia dolichognathos) and Discovered in the Lias at Lyme Regis.* Proc. Geol. Soc. I (also in Trans. Geol. Soc., 1833).

HENRY RILEY.

Squaloraia Riley, I, 484; orthotype *S. DOLICHOGNATHOS* Riley (fossil).

1828

128. RÜPPELL (1828). *Atlas zu der Reise im nördlichen Africa; Fische des Rothen Meeres.*

EDUARD RÜPPELL (1794-1884).

Petroscirtes Rüppell, 110; orthotype *P. MITRATUS* Rüppell. Omitted by accident from part I; sometimes spelled *PETROSKIRTES*.

- 128A THIENEMANN (1828). *Lehrbuch der Zoologie.*

FRIEDRICH AUGUST THIENEMANN (1793-1858).

Sphyrichthys Thienemann, III, 408; orthotype *SQUALUS ZYGENA* L. A needless substitute for *SPHYRNA* Raf.

132. CUVIER & VALENCIENNES (1828). *Histoire naturelle des poissons.* II.

GEORGES CUVIER; ACHILLE VALENCIENNES.

Pomatomus Cuvier & Valenciennes, II, 171; type *P. TELESCOPIUM* Risso (*EPIGONUS MACROPHthalmus* Raf.). Not *POMATOMUS* of Lacépède; a synonym of *EPIGONUS* Raf., 1820, as is also *TELESCOPS* Blkr.

1829

134. AGASSIZ (and SPIX) (1829). *Selecta genera et species piscium quas in itinere per Brasiliam (1817-1820) . . . collegit . . . Dr. J. B. de Spix. . .*

LOUIS AGASSIZ (1807-1873); JEAN BAPTISTE DE SPIX (1807-1873).

Xiphorhynchus Agassiz, 18; orthotype *SALMO FALCATUS* Bloch. Name preoccupied; replaced by *XIPHORHAMPHUS* M. & T., 1845; also preoccupied, again replaced by *ACESTORHYNCHUS* Eigenmann, 1910.

Pirarara Spix, 23; orthotype *PHRACTOCEPHALUS BICOLOR* Ag. A synonym of *PHRACTOCEPHALUS* Ag.

Erythrinus (Gronow) Agassiz, 41; haplotype *E. SALVUS* Ag., the only species named, the genus credited to Gronow. Same as *ERYTHRINUS* Gronow.

- 135 CUVIER (1829). *Le règne animal distribué d'après son organisation.* Edition, II, Vol. I

GEORGES CUVIER

Polyacanthus (Kuhl) Cuvier, 227; logotype *CHÆTODON CHINENSIS* Bloch, as restricted by Cuv. & Val. (not *TRICHOPODUS COLISA* as stated in part I, *Genera of Fishes*).

Rhinoptera (Kuhl) Cuvier, 401; orthotype *MYLIORATIS MARGINATUS* Geoffroy St. Hilaire.

- 136 CUVIER & VALENCIENNES (1829). *Histoire naturelle des poissons* III
GEORGES CUVIER; ACHILLE VALENCIENNES

Ostichthys (Langsdorff) Cuvier & Valenciennes, 111, 160; orthotype *MYRIPRISTIS JAPONICUS* Cuv. & Val. No generic definition; reestablished by Jordan and Evermann, 1896.

Apistus Cuvier & Valenciennes, IV, 391; logotype *APISTUS ALATUS* Cuv. & Val. called "les *APISTES*" by Cuvier. Regarded as preoccupied by *APISTA* Hübner, a genus of insects, and by *ASPISTES* Meigen, a genus of flies. If rejected, it may be replaced by *PTERICHTHYS* Sw., 1839, unless that is regarded as invalid, from the non-binomial *PTERICHTHUS* of Commerson (1803), which is *EXOCETUS*. *HYPODYTES* Gistel (1848) is also a substitute name, but the indicated type (*LONGISPINIS*) is a *PARACENTROPOGON* of Bleeker, also not mentioned by Cuvier. *PROSOPODASYS* Cantor, 1849, is also given as a substitute name for *APISTUS* and must retain the same type. If *APISTUS* is preoccupied, I think that *PTERICHTHYS* should replace it. . . . *APISTES TRACHINOIDES* Cuv. & Val. used by Günther as type of *PROSOPODASYS* is not eligible for that purpose, the species not being one of those mentioned by Cuvier.

Spurco (Commerson) Cuvier & Valenciennes, IV, 448, 1829; (reference in passing) haplotype *SCORPÆNA BRACHIO* Cuv. = *SYNANCEJA VERRUCOSA* Bl. & Schn., same as *SYNANCEICHTHYS* Blkr.; a synonym of *SYNANCEJA* as restricted by Müller.

136A. SMITH (1829). *Contributions to the Natural History of South Africa*. Zoological Journal.

ANDREW SMITH (1797-1872).

Rhineodon Alexander Smith, IV, 443; orthotype *R. TYPUS* Smith. (*RHINCODON* by misprint.) Also spelled *RHINODON*.

136B. BANCROFT (1829). *On the Fish Known in Jamaica as the Sea Devil* (*Cephalopterus manta*). Zool. Journal, IV.

E. N. BANCROFT.

Manta Bancroft, IV, 444; orthotype *CEPHALOPTERUS MANTA* Bancroft = *RAIA BIR-OSTRIS* Walbaum, 1792.

1830

142. CUVIER & VALENCIENNES (1830). *Histoire naturelle des poissons*. V. GEORGES CUVIER; ACHILLE VALENCIENNES.

Lycogenis (Kuhl & Van Hasselt) Cuvier & Valenciennes, V, 346; orthotype *HOLOCENTRUS CILIATUS* Lac. A section under *SCOLOPSIS* Cuv.

Priopis (Kuhl & Van Hasselt) Cuvier & Valenciennes, VI, 503; haplotype *PRIOPIS ARGYROZONA* Kuhl & Van Hasselt.

143. BENNETT (1830). *Catalogue of the Fishes of Sumatra*. Life and Public Services of Sir Stamford Raffles.

EDWARD TURNER BENNETT (1797-1836).

Leiopsis Bennett, 688; orthotype *SPARUS AUROLINEATUS* Lac. A synonym of *PENTAPUS* Cuv. & Val. (Omitted in part I.)

143A. BENNETT (1830). *Observations on a Collection of Fishes from the Mauritius with Characters of New Genera and Species*. Proc. Zool. Soc. London, 1831, part I.

EDWARD TURNER BENNETT.

Psettodes Bennett, I, 147; orthotype *P. BELCHERI* Bennett.

Agonostomus Bennett, I, 166; logotype *A. TELFARI* Bennett. Replaces *NESTIS* Cuv. & Val.

Apolectus Bennett, J, 169; orthotype *A. IMMUNIS* Bennett. A synonym of *SCOMBER OMORUS* Lac.

1831

146A. CUVIER & VALENCIENNES (1831). *Histoire naturelle des poissons*, VII (January, 1831), VIII, October, 1831.
(GEORGES CUVIER; ACHILLE VALENCIENNES.)

Drepene Cuvier & Valenciennes, VII, 129; orthotype *CILETODON PUNCTATUS* L.; name preoccupied by *DREPANA* or *DREPANE* Schrank, Lepidoptera, 1802; replaced by *ENIXE* Gistel, 1848, and by *HARPOCHIRUS* Cantor, 1849.

Spinax (Commerson) Cuvier & Valenciennes, VIII, 333; orthotype *S. EDAX* Commerson MS. = *GASTEROSTEUS CANADUS* L., note in passing. Name preoccupied; a synonym of *RACHYCENTRON* Kaup (ELACATE Cuv.).

146B. BONAPARTE (1831). *Saggio di una distribuzione metodica degli animali vertebrati*. Prospetto del Systema d'Ittiologia Générale; also in *Giornale Arcadico*, 167-190, 1832.

CHARLES LUCIEN JULES LAURENT BONAPARTE, PRINCE DE CANINO (1803-1857).
(CARLO LUCIANO BONAPARTE).

Merou ("Cuvier") Bonaparte, 101; type presumably *SERRANUS GIGAS*, not defined. Same as *EPINEPHELUS* Bloch.

Dulichthys Bonaparte, 101; haplotype *DULIS AURIGA* Cuv. Name a substitute for *DULIS* Cuv., regarded as preoccupied by *DULUS*, a genus of birds. If needed, *DULICHTHYS* replaces *EDDULUS* Fowler.

Pogonathus (Lacépède) Bonaparte, 104. This name is revived as a substitute for *POGONIAS* Lac., 1803, "long since used in ornithology". But *POGONIAS* Illiger dates from 1811, while *POGONIA* and *POGONIAS*, as a genus of birds, are still later in date.

Micropogonias Bonaparte, 104; type *PERCA UNDULATA* L. Substitute for *MICROPOGON*, which is said to be, but apparently is not, preoccupied.

Sarpa Bonaparte 105; a bare word of reference. The intended type is obviously *SPARUS SALPA* L. *SARPA* may stand as a section under *BOOPS*, the body being deeper and more compressed than in *B. BOOPS*.

Palamita Bonaparte, 107; (type *SCOMBER SARDA* Bloch). Name a substitute for *PELAMYS* Cuv. & Val., 1801, preoccupied in reptiles. But *SARDA* Cuv., 1829, is older and stands unless the non-binomial *SARDA* Plumier, 1802 (= *OECYRUS* Gill) is deemed eligible, in which case *PALAMITA* would hold.

Priodontichthys Bonaparte, 109; haplotype *PRIODON ANNULARIS* Cuv. & Val., the young of *NASO ANNULATUS* Q. & G. Substitute for *PRIODON* Cuv., preoccupied. A synonym of *NASO* Lac.

Scopas Bonaparte, 109; type presumably *ACANTHURUS SCOPAS* Cuv. & Val., being placed next to *ACANTHURUS*, but neither diagnosis nor type is given. Presumably the same as *ZERRASOMA* Sw., but not eligible.

Ctenodon Bonaparte, 109. No description nor type mentioned; presumably intended for *ACANTHURUS CTENODON* Cuv. & Val., preoccupied; replaced by *CTENOCHÆTUS* Gill, 1884.

Elops (Commerson) Bonaparte, 112; (type *GOMPHOSUS TRICOLOR* Lac.). Suggested as a substitute for *GOMPHOSUS* Lac. (Not *ELOPS* L., 1758.)

Erythrichthys Bonaparte, 116; type (*SALMO ERYTHRINUS* Bl. & Schn.). A needless substitute for *ERYTHRINUS* (Gronow) Scopoli. It renders *ERYTHRICHTHYS* T. & S. preoccupied, to be replaced by *ERYTHROCLES* Jordan, 1919.

- 147A. EICHWALD (1831). *Zoologia specialis potissimæ R. Rossiaë et Poloniae* Wilna, 1831.

CARL EDUARD VON EICHWALD (1795-1876).

Nematosoma Eichwald, III, 60; orthotype *N. OPHIDIUM* Eichw. (not *SYNGNATHUS OPHIDIUM* L.) = *SCYPHIUS TERES* Nordmann, 1840. Name regarded as preoccupied by *NEMOSOMA*, a genus of beetles. A synonym of *NEROPHIS* Raf. 1810.

Benthophilus Eichwald, III, 77; orthotype *Gobius macrocephalus* Pallas.

- 150A. GRAY (1831). *The Zoological Miscellany*. I.

JOHN EDWARD GRAY (1800-1873).

Centracion Gray, I, 5; orthotype *C. ZEBRA* Gray, Same as *CESTRACION* Cuv., 1817, not of Klein. Replaces *HETERODONTUS*, if that name is regarded as preoccupied by the genus of snakes, *HETERODON*, 1802.

1832

- 151B. MÜNSTER (1832). *Beiträge zur Kunde der Petrefakten*. I.

GEORG (GRAF ZU) MÜNSTER (1776-1844).

Janassa Münster, I, 67; logotype *J. ANGULATA* Münster (fossil) = *TRILOBITES BITUMINOSUS* Schlotheim.

- 151C. COUCH (1832). *Fishes New to the British Fauna*. Mag. Nat. Hist., V.

JONATHAN COUCH (1788-1870).

Ciliata Couch, V, 15; orthotype *C. GLAUCA* Couch, a larva of *GADUS MUSTELA* (L.). Name may be retained for the five-bearded Rocklings.

- 151D. NARDO (1832). *Annotazioni di quattro pesci nuovi*, etc.

GIOVANNI DOMENICO NARDO (1802-1877).

(Not seen by us; the title uncertain. The genus *GOUANIA* is quoted from Canestrini.)

Gouania Nardo; orthotype *G. PROTOTYPUS* Nardo = *LEPADOGASTER WILLDENOWI* (Risso). Antedates *RUPISUGA* Sw.

- 151E. KRYNICKI (1832). *Schilus pallasii descriptus et icones illustratus*. Nouv. Mém. Soc. Nat. Moscou, II.

J. KRYNICKI.

Schilus Krynicki, II, 441; orthotype *S. PALLASI* Krynicki = *PERCA VOLGENSIS* Pallas. Replaces *MIMOPERCA* Gill & Jordan, 1877.

152. MINDING (1832). *Lehrbuch: Naturgeschichte der Fische*.

JULIUS MINDING.

Hydronus Minding, 83; orthotype *GADUS MERLUCIUS* L. A synonym of *MERLUCIUS* Raf.

153. NILSSON (1832). *Prodromus ichthyologiae Scandinaviae*.

SVEN NILSSON (1787-1883).

Salvelini Nilsson, 7; orthotype *SALMO SALVELINUS* L. = *S. ALPINUS* L. Group name, in the plural only; written as *SALVELINUS* by Richardson (1836).

Carassius Nilsson, IV, 290; orthotype *CYPRINUS CARASSIUS* L.

- 153A. REINHARDT (1832). *Bidrag til vor kundskab om Grönlands fiske*. Dansk. Vid. Selsk. Afl. Kjöbenhavn, V.

JOHANNES REINHARDT (1776-1845).

Triglops Reinhardt, V, 52; orthotype *T. PINGELI* Reinhardt.

THE GENERA OF FISHES

PART II

1833

164. AGASSIZ (1833). *Recherches sur les poissons fossiles*. 11; IV (first part; second part of Vol. II issued in 1844; part of Vol IV in 1833).

LOUIS AGASSIZ.

Catopterus Agassiz, 11, 3; orthotype *C. ovalis* Ag. (fossil). A synonym of **Dipterus**.

Amblypterus Agassiz, 11, 3, 28; orthotype *A. latus* Ag. (fossil).

Gyrolepis Agassiz, 11, 6, 172; logotype *G. alberti* Ag. (fossil).

Tetragonolepis Agassiz, 11, 6, 181; logotype *T. confluens* Ag. (fossil). Name preoccupied; a synonym of **Dapedium** Leach.

Microps Agassiz, 11, 10; orthotype *M. furcatus* Ag. (fossil). Name preoccupied; replaced by **Periurgus** Gistel, 1848.

Pygopterus Agassiz, 11, 10; orthotype *P. humboldti* Ag. (fossil).

Notagogus Agassiz, 11, 10; orthotype *N. pentlandi* Ag. (fossil).

Acrolepis Agassiz, 11, 11; orthotype *A. sedgwicki* Ag. (fossil).

Pachycormus Agassiz, 11, 11; orthotype *Elops macropterus* Blainv. (fossil)

Thrissops Agassiz, 11, 12; orthotype *T. formosus* Ag. (fossil).

Megalurus Agassiz, 11, 13; orthotype *M. lepidotus* Ag. (fossil). Name preoccupied in birds (Horsfield, 1821), replaced by **Synergus** Gistel (1848), also preoccupied; suggested as substitute for both **Urocles** Jordan, 1919.

Aspidorhynchus Agassiz, 11, 14; orthotype *Esox acutirostris* Blainv. (fossil).

Saurostomus Agassiz, 11, 14; orthotype *S. esocinus* Ag. (fossil).

Sphaerodus Agassiz, 11, 15; logotype *S. gigas* Ag. (fossil). A synonym of **Lepidotes** Ag.; not **Sphaerodon** Rüppell.

Pycnodus Agassiz, 11, 16; orthotype *Zeus platessus* Blainv. (fossil).

Gyrodon Agassiz, 11, 16; orthotype *G. macrophthalmus* Ag. (fossil).

Microdon Agassiz, 11, 16; orthotype *M. elegans* Ag. (fossil). Name preoccupied in flies (Meigen, 1803), replaced by **Proscinetes** Gistel, 1848, and, later, by **Polyserphis** Hay (1899).

Calamostoma Agassiz, 11, 18; orthotype *Syngnathus breviculus* Blainv. (fossil).

Acanthodes Agassiz, 11, 19; orthotype *Acanthoessus bronni* Ag. (fossil). A substitute, apparently unnecessary, for *Acanthoëssus* Ag. (1832).

Cyclopoma Agassiz, IV, 17; orthotype *C. gigas* Ag. (fossil).

Smerdis Agassiz, IV, 32; logotype *Perca minuta* Blainv. (fossil). Name preoccupied in insects; replaced by **Dapalis** Gistel (1848).

Gasteronemus Agassiz, V, 17; logotype *G. rhombeus* Ag. (fossil). An extinct homologue of **Mene**.

165 BRANDT & RATZBURG (1833). *Medizinische Zoologie*. 11.

JOHANN FRIEDRICH BRANDT (1802-1879); J. T. C. RATZBURG (1801-1871).

Huso Brandt & Ratzburg, 11, 3; orthotype *Acipenser huso* L. A synonym of **Ichthyocola** Geoffroy, 1767, and of **Sterletus** Raf., 1820

Helops Brandt & Ratzeburg II, 3; orthotype *ACIPENSER STELLATUS* Pallas, 1768, = *A. HELOPS* Pallas, 1811.

Sterletus Brandt & Ratzeburg, II, 3, 349; orthotype *ACIPENSER RUTHENUS* L. Name spelled also *STERLETA* Müller) and *STERLEDUS* (Bon.). Name preoccupied; replaced by *STERLETA* Gldenstdt, if binomial. *STERLETUS* Raf. (1820) is based on an American species, *ACIPENSER SEROTINUS* Raf., which is the same as *ACIPENSER RUBICUNDUS* Le Sueur, still earlier called *ACIPENSER FULVESCENS* by Rafinesque. This species belongs to the group or genus called *ICHTHYOCOLLA* by Geoffroy in 1767, and *HUSO* by Brandt & Ratzeburg in 1833.

166. COCCO (1833). *Osservazioni Peloritani*.

ANASTASIO COCCO (1799-1854).

Ruvettus Cocco, XIII, 18 (April, 1833); orthotype *R. PRETIOSUS* Cocco.

167. COCCO (1833). *Lettere al Signor Rizzo su alcuni pesci novelli*. Giorn. Sci. Lett. Sicilia, XLII.

ANASTASIO COCCO.

Tylosurus Cocco, XLII, No. 124; orthotype *T. CANTRAINI* Cocco = *ESOX IMPE-RIALIS* Raf. = *SPHYRENA ACUS* Lac.

168. COCCO (1833). *Su alcuni pesci de Mare di Messina*. Giorn. Sci. Lett. Sicilia, XLII.

ANASTASIO COCCO.

Mupus Cocco, 20; orthotype *M. IMPERIALIS* Cocco. The name *LEIRUS* Lowe, also of 1833, is preoccupied in beetles (1823) and must give place to *MUPUS*.

169. CUVIER & VALENCIENNES (1833). *Histoire naturelle des poissons*. IX. GEORGES CUVIER; ACHILLE VALENCIENNES.

Trachurus Cuvier & Valenciennes, IX, 6; haplotype *SCOMBER TRACHURUS* L. Same as *TRACHURUS* Raf., 1810.

Hynnus Cuvier & Valenciennes, IX, 95; orthotype *H. GOREENSIS* Cuv. & Val.

Lactarius Cuvier & Valenciennes, IX, 237; haplotype *SCOMBER LACTARIUS* Bloch = *LACTARIUS DELICATULUS* Cuv. & Val.

Naucleus Cuvier & Valenciennes, IX, 247; orthotype *N. COMPRESSUS* Cuv. & Val. Young of *NAUCRATES* Raf.

Porthmeus Cuvier & Valenciennes, IX, 255; orthotype *P. ARGENTUS* Cuv. & Val.

Psenes Cuvier & Valenciennes IX, 259; orthotype *P. CYANOPIRYS* Cuv. & Val.

Gallichthys Cuvier & Valenciennes, IX, 264; orthotype *GALLICHTHYS MAJOR* Cuv. & Val. Substitute for *GALLUS*, preoccupied in birds; a synonym of *ALECTIS* Raf.

Lampugus Cuvier & Valenciennes, IX, 317; orthotype *SCOMBER PELAGICUS* L. A synonym of *CORYPILINA* L.

Aphredoderus (Le Sueur) Cuvier & Valenciennes, IX, 445; orthotype *A. GIBBOSUS* Le Sueur = *SCOLOPSIS SAYANUS* Gilliams. Also spelled *APHROEDIRUS* and *APHODODERUS* by authors.

170. GRAY (1833). *The Illustrations of Indian Zoology, Chiefly Selected from the Collection of General Hardwicke*.

JOHN EDWARD GRAY.

This paper contains plates only, no diagnosis of the new genera being given.

Balitora Gray, II, pl. 5; haplotype *B. BRUCEI* Gray. A synonym of *Homaloptera* Van Hasselt.

Bedula Gray, 11, 88; logotype *B. NEBULOSA* Gray. A synonym of *NANDUS* Cuv. & Val., 1831.

Pterapon Gray, 11, 88; haplotype *P. TRIVITTATUS* Gray = *SCLENA JARBUA* Forskål. A synonym of *THERAPON* Cuv.

Anaora Gray, 11, 90; haplotype *A. TENTACULATA* Gray. (Name misprinted *AMORA*, but corrected in manuscript on the plate.) Species not identified; resembles *THYSANOPHYRUS* Ogilby.

Apterygia Gray, 11, 92; haplotype *A. RAMCARATE* Gray. A synonym of *RACONDA* Gray.

Tor Gray, 11, 96; haplotype *CYPRINUS TOR* Ham. = *TOR HAMILTONI* Gray. Replaces *LABEOBARDUS* Ruppell.

Bengala Gray, 11, 96; haplotype *CYPRINUS ELANGA* Ham. Replaces *MEGARASBORA* Gthr.

Amaneses Gray, 11, 98; haplotype *A. HYSTRIX* Gray = *MONACANTHUS SCOPAS* Cuv.

Acarana Gray, 11, 98; haplotype *OSTRACION AURITUS* Shaw. Also in *Ann Nat. Hist.*, 1, 110, 1838.

Girella Gray, 11, 98; haplotype *G. PUNCTATA* Gray.

171, 172. LOWE (1833). *Character of a New Genus and of Several New Species of* Proc. Zool. Soc. London, 1.

RICHARD THOMAS LOWE (1802-1874).

Alepisaurus Lowe, 104; orthotype *A. FEROX* Lowe. A synonym of *PLAGYODUS* Steller, 1811, if the latter be deemed tenable, being given in the dative case only ("Plygyodontem") Often written *ALEPIDOSAURUS* by authors.

173. LOWE (1833). *Character of a New Genus and of Several New Species of Fishes from Madaira.* Proc. Zool. Soc. London, 1.

RICHARD THOMAS LOWE

Leirus Lowe, 142; orthotype *L. BENNETTI* Lowe = *CENTROLOPHUS OVALIS* Cuv. & Val. = *MUPUS IMPERIALIS* Cocco, the three names of the same date. *LEIRUS* is preoccupied in beetles (Meigen, 1823) and gives place to *MUPUS* Cocco.

174. NARDO (1833). *De Skeponopodo novo piscium genere et de Guebuen Margravii: species illi cogniti.* Isis. Mem. Assemb. Nat. Vienna.

GIAN DOMENICO NARDO.

Skeponopodus Nardo, fasc. 416; orthotype *S. TYPUS* Nardo = *XIPHIAS IMPERATOR* Bl. & Schn. A synonym of *TETRAITURUS* Raf.

175. REINHARDT (1833). *Bemerkningen til den Skandinaviske ichthyologie.* JOHANNES REINHARDT.

Silus Reinhardt, 11; orthotype *SALMO SILUS* Ascanius. Apparently a synonym of *ARGENTINA* L.

1834

176. AGASSIZ (1834). *Abgerissene Bemerkungen über fossile Fische.* Neues Jahrb. Mineralogie.

LOUIS AGASSIZ.

Ophiopsis Agassiz, 385; orthotype *O. PROPERUS* Ag. (fossil).

Saurichthys Agassiz, 386; orthotype *S. APICALIS* Ag. (fossil)

Propterus Agassiz, 386; orthotype *P. MICROSTOMUS* Ag. (fossil)

Caturus Agassiz, 387; orthotype *UREUS NUCHALIS* Ag. (fossil). Substitute for *UREUS* Ag., preoccupied

Macrosemius Agassiz, 387, orthotype *M. ROSTRATUS* Ag. (fossil).

Belonostomus Agassiz, 388; orthotype *B. TENUIROSTRIS* Ag. (fossil).

Dercetis Agassiz, 389; orthotype *D. SCUTATUS* Ag. (fossil).

177. AGASSIZ (1834). *Verhandlungen der Gesellschaft des vaterländischen Museums. Böhmen.*

LOUIS AGASSIZ.

Halec Agassiz, 67; orthotype *H. STERNBERGI* Ag. (fossil).

178. AGASSIZ (1834). *Recherches sur les poissons fossiles. V (part), 1834.*

LOUIS AGASSIZ.

Acanthonemus Agassiz, V, 27; orthotype *A. FILAMENTOSUS* Ag. (fossil).

179. COSTA (1834). *Cenni zoologici, ossia descrizione sommaria delle specie nuovi di animali discoperti in diverse contrade del regno, nell' anno 1834. (Naples.)*

ORONZIO GABRIELE COSTA (1787-1867).

Branchiostoma Costa, 49; orthotype *LIMAX LANCEOLATUS* Pallas; replaces *AMPHIOXUS* (Gray) Yarrell.

Nemotherus (Risso) Costa, fig. 9; orthotype *N. ERYTHROPTERUS* Risso. A synonym of *TRACHYPTERUS* (not verified).

180. GRIFFITH (1834). *The Class Pisces, Arranged by the Baron Cuvier, with Supplementary Additions by Edward Griffith and Charles Hamilton Smith.*

Carangus Griffith, 335; tautotype *SCOMBER CARANGUS* Bloch = *SCOMBER HIPPOS* L. A synonym of *CARANX* Lac. as restricted; same as *CARANGUS* Grd.

181. HENLE (1834). *Sur le Narcine, nouveau genre de raies electriques, etc. Ann. Sci. Nat., II. (Also in German as Ueber Narcine.)*

FRIEDRICH GUSTAV JACOB HENLE (1807-1855).

Narcine Henle, 31; orthotype *TORPEDO BRASILIENSIS* Ölfers.

182. MÜNSTER (1834). *Knochenhöhle bei Rabenstein, etc. Neues Jahrb. Miner.*

GEORG MÜNSTER.

Undina Münster, 539; orthotype *U. PENICILLATA* Münster (fossil).

183. QUOY & GAIMARD (1834). *L'oyage de découvertes de "l'Astrolabe," etc. (1826-29), sous le commandement de M. J. Dumont d'Urville.*

JEAN RÉNÉ CONSTANTIN QUOY (1707-1778); PAUL GAIMARD (1790-1858).

Aspidontus (Cuvier) Quoy & Gaimard, 719; orthotype *A. TÆNIATUS* Cuv. & Val. An ally of *PETROSCIRTES* Rüppell, distinguished by the lack of elevation of the anterior dorsal spines.

1835

184. AGASSIZ (1835). *Ueber die Familie der Karpfen. Mem. Soc. Nat. Neuchâtel, I.*

LOUIS AGASSIZ.

Acanthopsis Agassiz, I, 36; orthotype *COBITIS TÆNIA* L. Name preoccupied. A synonym of *COBITIS* L.

Phoxinus Agassiz, 37; orthotype *LEUCISCUS PHOXINUS* L. Same as *PHOXINUS* Raf. 1820.

Rhodeus Agassiz, I, 37; orthotype *CYPRINUS AMARUS* Bloch.

Chondrostoma Agassiz, I, 38; orthotype *CYPRINUS NASUS* L.

Aspius Agassiz, I, 38; tautotype *CYPRINUS ASPIUS* L.

Pelecus Agassiz, I, 39; orthotype *CYPRINUS CULTRATUS* L.

185 AGASSIZ (1835). *Recherches sur les poissons fossiles*. II.

LOUIS AGASSIZ.

Plectrolepis (Agassiz) II, 44; orthotype *P. RUGOSUS* Ag. (fossil). Name only; validated by Egerton, 1850. A synonym of *EURYNOTUS* Ag. = *NOTACMON* Gistel, 1848.

Megalodon Agassiz, II, 55; logotype *M. LEWESIENSIS* Ag. (fossil). Name preoccupied; a synonym of *PACHYRHIZODUS*.

Enchodus Agassiz, II, 55 (feuilleton); orthotype *ESOX LEWESIENSIS* Mantell (fossil).

Macropoma Agassiz, II, 55 (feuilleton); orthotype *M. MANTELLI* Ag. (fossil).

Diplopterus Agassiz, II, 113; orthotype *D. MACROCEPHALUS* Ag. (fossil). Name preoccupied; replaced by *DIPLOITERAX* McCoy (1885).

Pleiopterus Agassiz, II, 113; orthotype *OSTEOLEPIS MACROLEPIDOTUS* Val. (fossil). A synonym of *ASTROLEPIS*.

Cheiracanthus Agassiz, II, 125; orthotype *C. MURCHISONI* Ag. (fossil).

Cheirolepis Agassiz, II, 128; orthotype *C. TRAILLI* Ag. (fossil).

Cephalaspis Agassiz, II, 135; orthotype *C. LYELLI* Ag. (fossil).

Eurynotus Agassiz, II, 153; logotype *E. CRENATUS* Ag. (fossil). Name preoccupied; replaced by *NOTACMON* Gistel (1848).

Platysomus Agassiz, II, 6, 161; logotype *STROMATEUS GIBBOSUS* Blainv. (fossil). Name held to be preoccupied by *PLATYSOMA* Leach, 1817; replaced by *SCROTES* Gistel (1848); *UROPTERYX* (Ag.) Woodw. (1907) may be also regarded as a substitute.

186 AGASSIZ (1835). *Ueber das der Glarner-Schiefer-Formation nach ihren Fischresten*. Neues Jahrb. Mineral.

LOUIS AGASSIZ.

Carangopsis Agassiz, 293; orthotype *C. LATIOR* Ag. (fossil). Names only; validated in 1844.

Urosphen Agassiz, 293; orthotype *U. FISTULARIS* Ag. (fossil). Names only; validated in 1844.

Amphistium Agassiz, 294; orthotype *A. PARADOXUM* Ag. (fossil). Names only; validated in 1844.

Xiphopterus Agassiz, 295; orthotype *ESOX FALCATUS* Volta (fossil).

Pristigenys Agassiz, 299; orthotype *P. MACROPHthalmus* Ag. (fossil). Name only; described in 1839 (*Poiss. fossiles*, IV, 139).

Cælogaster Agassiz, 304; orthotype *C. ANALIS* Ag. (fossil) (name only), and hence dating only from later usage.

Platinx Agassiz, 304; orthotype *P. ELONGATUS* Ag. (fossil). A synonym of *MONOTEROS* Volta (1794).

Enchelyopus Agassiz, 307; orthotype *E. TIGRINUS* Ag. (fossil); name only; validated by Agassiz in 1844. Preoccupied; replaced by *PARANGULLA* Bkr (1864).

187 CUVIER & VALENCIENNES (1835). *Histoire naturelle des poissons* X (The series continued after the death of Cuvier, in 1832, until 1848, by ACHILLE VALENCIENNES.)

Keris Cuvier & Valenciennes, 304, 1835; orthotype *KERIS ANGUINOSUS* Cuv. & Val. Often written *CERIS* the young of *NASO* Lac.

188 GOTTSCHÉ (1835). *Die seeländischen Pleuronectes-Arten* Wiegmann's Archiv der Naturgeschichte, II
CARL MORITZ GOTTSCHÉ (1808 1892)

Limanda Gottsche, 100; orthotype **PLEURONECTES LIMANDA** L.

Microstomus Gottsche, 150; orthotype **M. LATIDENS** Gottsche. Regarded as preoccupied by **MICROSTOMA** Risso, 1826; replaced by **CYNICOGLOSSUS** Bon.

Glyptocephalus Gottsche, 156; orthotype **PLEURONECTES SAXICOLA** Faber = **P. CYNOGLOSSUS** L.

Hippoglossoides Gottsche, 168; orthotype **Il. LIMANDA** Gottsche = **PLEURONECTES LIMANDOIDES** Bloch.

Zeugopterus Gottsche, 178; orthotype **PLEURONECTES HIRTUS** Abildgard.

189. **JOANNIS** (1835). *Observations sur les poissons du Nil et descriptions de plusieurs espèces nouvelles*, etc. Mag. Zool., 1835.

L. DE JOANNIS.

Mochokus Joannis, pl. 8; orthotype **M. NILOTICUS** Joannis.

190. **MEYEN** (1835). *Reise in Peru*. I.

J. MEYEN.

Pygidium Meyen, I, 475; orthotype **P. FUSCUM** Meyen.

191. **MÜLLER** (1835). *Vergleichende Anatomie der Myxinoiden, der Cyclostomen mit durchbohrten Gaumen*. (Reprinted in *Arch. Naturg.*, Berlin, for 1846, 247.)

JOHANNES MÜLLER (1801-1858).

Sturio Müller, 77. (Sturgeons without opercle.) Type presumably **ACIPENSER STURIO** L. A synonym of **ACIPENSER** Ag.

Scaphirhynchus (Heckel) Müller, 77; footnote only; defined as lacking the quadrate bone; logotype **ACIPENSER PLATORHYNCHUS** Raf.

Bdellostoma Müller, 79 (248, reprint); orthotype **B. HEXATREMA** Müller; a substitute for **HEPATREMA** Dum. as not correct in fact. Both are synonyms of **EPTATRETUS** Cloquet, 1818.

192. **DE LA PYLAIE** (1835). *Recherches en France, sur les poissons de l'océan, pendant les années 1832 et 1833*. Congrès Scientifique de France tenue a Poitiers, 1834.

M. DE LA PYLAIE (DE FOUGÈRES).

This singularly useless paper has been totally overlooked by all naturalists except Dr. Gill, who has noted Pylaie's use of the name **ARGYROSOMUS** (1835), at a date prior to that of Agassiz (1850). Besides the "new genera" enumerated below, the following new species are indicated by De la Pylaie:

SPINAX VITULINUS p. 527 ("tête qui rappelle un muffle de veau").

SCYLLIUM ATLANTICUM (527) ("trop différente," etc.).

SCYMNUS AQUITANENSIS (527) (la Sénille ou Chénille de l'Île Dieu).

SQUALRAJA CERVICATA (527) ("pour le distinguer de l'ordinaire, que est acephale").

SQUALRAJA ACEPHALA (527) (= **SQUATINA SQUATINA**).

TORPEDO ELLIPTICA (527) ("d'après la structure de ses deux pectorales").

RAJABATIS MACROPHALLA (528) (Differing in length of elasper).

RAJABATIS MICROPHALLA (528). "Neuf autres espèces complètent ce genre; ce sont les **R. TRIPTERA**, **POLYACANTHA**, **VARIEGATA**, **TIGRINA**, **MONOLIFERA**, **FLORIGERA**, **MELUMPSECA**, **MOAICA**, **UNDULATA**.

HIPPOCAMPUS ATRICIUS (529) ("espèce de l'Océan").

HIPPOCAMPUS JUBATUS (529) ("des filaments qui composent, le long de son cou, une espèce de crinière peu fournie").

APTOCYCLUS OSTRAOIDES (529). "Coffret." "Nouvelle espèce encore très bien caractérisée."

ANGUILLA VULGARIS, "mes variétés *MACROCEPHALA*, *ORNITHORHINCHA*, *PLATYURA*, également nouvelles pour la science" (529).

MURENA HIPPOCREPIS (529) "commune dans certain reservoirs des Salines, à l'île de Noirmontier".

AMMODYTES PICTAVUS (529a) "qui s'en distingue par l'absence de dents, par le nombre des rayons et par la couleur de quelques parties de son corps".

MORRHUA VULGARIS CALLARINA (530), a variety "rare à île Dieu," etc.

GADUS ZONATUS (530), a "variety" of "*GADUS BARBATUS*".

MUSTELA RUBENS (530), "La Cqche Rouge".

MUSTELA QUINQUECIRRIA (530), "a cinq barbillons".

BLENNIUS GATTORUGINE BIDENTACULARIS (530).

BLENNIUS PICTAVUS (530), "nouvelles espèces".

BLENNIUS PIETI (530).

PTEROZYGUS BIEVRII (530).

GOBIVS NIGRICANAS (531), "habite les roches de la côte".

THYNNUS ATLANTICUS (531a), the albacore.

THYNNUS OCEANICUS (531a), the tunny.

TRIGLA MEGALOPHTHALMA (531a), "d'après la grosseur remarquable des yeux".

CRENILABRUS PHENODONTUS (532), "a grand dent".

CRENILABRUS MARMORATUS (532).

CRENILABRUS OXYCEPHALUS (532), "n'a pas de tache noir sur la queue; son museau est plus pointée".

SARGUS PULCHELLUS (532), "Ruscain, d'après sa chair rouge".

EXOCALLUS INSIGNIS (532a), new name for *Boops boops* (L.).

PERCA OLONNENSIS (532a) ("nouvelle espèce").

PERCA INERMIS (532a). Name only.

ARGYROSOMUS PRO CERUS (532a), "Baie de Bourgneuf".

CLUPEA ELONGATA (532a) "une variété N. du *CLUPEA ALOSA*, le corps beaucoup plus allongé que dans l'aloise ordinaire".

APTEROGASTERUS ROSTELLATUS (532a), "Jacquine" "D'après la forme de son museau".

LEUCISCUS PICTAVA (533), "Chévénau" "le corps est moins large" (que dans le *LEUCISCUS CIUR* de Pennant).

LEUCISCUS OBTUSUS (533) "able ou petit verdon sans taches".

GOBIO PHOXINOIDES (533), "Goujon véronette".

COMITIS PARISIENSIS (534), "Loche Franche".

COMITIS PICTAVA (534), "repandu dans nos rivières".

SOLEA CUNEATA (534), "Sole sêtan": "espèce mediocre, mais parfaitement caractérisée".

RHOMBUS GALLINULA (534), "poulette de mer".

Squalraia De la Pylaie, 526; orthotype *SQUALRAIA ACCEPHALA* Pylaie — *RAJA SQUATINA* L. A synonym of *SQUATINA*; not *SQUALORMATA* Riley (1826).

Rajabatis De la Pylaie, 528; logotype *RAJA MOSAICA* Lac. (most of the other species named being left undescribed). A synonym of *RAJA*, possibly not intended as a generic name.

Aptocyclus De la Pylaie, 529; orthotype "*CYCLOGASTERUS VENTRIOSUS*" Pallas (error for "*CYCLOPTERUS*") Replaces *CYCLOPTERICHTHYS* Steind. (1861).

Pterozygus De la Pylaie, 530; orthotype *P. BIEVRII* De la Pylaie. "Une loche qui présente le singulier caractere d'avoir ses nageoires pectorales et thoracines réunies par paires". Probably a monstrous form of *COMITIS* L.

Exocallus De la Pylaie, 532 (a), orthotype *E. INSIGNIS* Pylaie (*SPARUS BOOPS* L.). Name a substitute for *Boops*, of which it is a needless synonym.

Apterogasterus De la Pylaie, 532a; orthotype *A. rostellatus* Pylaie, "la Jacquine". (Not identified.)

Argyrosomus De la Pylaie, 534; orthotype *A. procerus* De la Pylaie. A synonym of *Sciæna* L. as restricted by Cuvier; same as *Pseudosciæna* Blkr.

193. RÜPPELL (1835). *Neue Wirbelthiere zu der Fauna von Abyssinien gehörig*. 2 vols.

EDUARD RÜPPELL.

Enneapterygius Rüppell, 2; orthotype *E. pusillus* Rüppell.

Gazza Rüppell, 4; orthotype *G. equuleformis* Rüppell.

Pseudochromis Rüppell, 8; logotype *P. olivaceus* Rüppell.

Halichæres Rüppell, 14; logotype *H. bimaculatus* Rüppell (as restricted by Jordan & Snyder). Regarded as preoccupied by *Halichærus*, a genus of seals; replaced by *Hemulius* Sw. (1839) and by *Chærojulis* Gill (1864).

Lutodeira (Kuhl) Rüppell, 18; orthotype *Mugil chanos* Forskål. A synonym of *Chanos* Lac.

Xenodon Rüppell, 53; orthotype *Balistes niger* Lac. Preoccupied in reptiles; replaced by *Zenodon* Sw. (1839), by *Odonus* Gistel (1848), by *Erythron* Rüppell (1852) and by *Pyron* Kaup (1853). The validity of the oldest of these substitute names, *Zenodon*, may be questioned. See record of Swainson (1839).

Nebrius Rüppell, 62; orthotype *Nebrius concolor* Rüppell. Name regarded as preoccupied by *Nebria* Latreille and *Nebris* Cuv.; replaced by *Nebrodes* Garman. But the root is different: νεβρίος of Aristotle, referring to some shark.

Uropterygius Rüppell, 83; orthotype *N. concolor* Rüppell. This would be a synonym of *Gymnomuraena* Lac., as restricted by Bleeker, 1864, but not as limited by Kaup, 1856.

Sphærodon Rüppell, 113; orthotype *Sciæna grandoculis* Forskål. A synonym of *Monotaxis* Bennett.

Pristotis Rüppell, 128; orthotype *P. cyanostigma* Rüppell. A synonym of *Pomacentrus* Lac.

194. SCHULTZE (1835). *Versammlung von Naturforschers in Bonn*.

CARL AUGUST SIGMUND SCHULTZE (1795-1877).

Hexabranchus Schultze; orthotype presumably *Bdellostoma hexatrema* Müller. If so, a synonym of *Eptatretus* Cloquet. According to Agassiz, a genus of lampreys, presumably one with six gills; no further details available.

1836

195. AGASSIZ (1836). *Recherches sur les poissons fossiles*. III.

LOUIS AGASSIZ.

Zygobatis Agassiz, III, 79; orthotype *Z. jussieui* Ag. A synonym of *Rhinoptera* Kuhl.

Odontaspis Agassiz, III, 87; orthotype *O. ferox* Ag. A synonym of *Carcharias* Raf. as now limited.

Spinacorchinus Agassiz, III, 94; orthotype *S. polyspondylus* Ag. (fossil). A synonym of *Squaloraja* Riley.

Goniodus Agassiz, III, 183; orthotype *Squalus spinosus* Gmelin = *Squalus brucus* Bonnaterre. A synonym of *Echinorhinus* Blainv.

Amblyurus Agassiz, III, 220; orthotype *A. macrostomus* Ag. (fossil). A synonym of *Dapedium* Leach.

- 196 AGASSIZ & HIBBERT (1836). *On the Fresh-water Limestones of Burdighouse, etc.* Trans. Roy. Soc. Edinburg.
LOUIS AGASSIZ; SAMUEL HIBBERT (1782-1848).
Megalichthys Agassiz, VIII, 202; orthotype M. HIBBERTI Ag. (fossil).
197. CUVIER & VALENCIENNES (1836). *Histoire naturelle des poissons* XI.
ACHILLE VALENCIENNES.
Omobranchus (Ehrenberg) Cuvier & Valenciennes, XI, 87; orthotype **BLENNECHIS FASCIOLATUS** Cuv. & Val. A synonym of **ASPIDONTUS** Cuv.
Cestræus Cuvier & Valenciennes, XI 157; type **CESTRÆUS Plicatilis** Cuv. & Val. Near **AGONOSTOMUS** Bennett, 1830. Not **CESTREUS** Klein, nor of McClelland, nor Gronow.
Dajaus Cuvier & Valenciennes, XI, 164; haplotype **MUGIL MONTICOLA** Bancroft; near **AGONOSTOMUS** Bennett, 1800.
Nestis Cuvier & Valenciennes, XI, 167; logotype **NESTIS CYPRINOIDES** Cuv. & Val. = **AGONOSTOMUS TELFAIRI** Bennett, 1830. A synonym of **AGONOSTOMUS** Bennett.
Blennéchis Cuvier & Valenciennes, XI, 279; logotype **B. FILAMENTOSUS** Cuv. & Val. A synonym of **PETROSCIRTES** Rüppell.
Chasmodes Cuvier & Valenciennes, XI, 295; logotype **BLENNIUS BOSQUIANUS** Lac.
Cristiceps Cuvier & Valenciennes, XI, 402; haplotype **C. AUSTRALIS** Cuv. & Val.
Gunnellus Cuvier & Valenciennes, XI, 419; tantotype **BLENNIUS GUNNELLUS** L. A synonym of **PIOLIS** (Gronow) Scopoli (1777), and of **MURÆNOIDES** Lac. (1803). Often spelled **GUNELLUS**.
198. HECKEL (1836). *Scaphirhynchus, eine Fischgattung aus der Ordnung der Chondropterygier mit freien Kiemen.* Ann. Wien. Mus., I.
JOHANN JAKOB HECKEL (1790-1857).
Scaphirhynchus Heckel, I, 71; orthotype **S. RAFINESQUEI** = **ACIPENSER PLATORYNCHUS** Raf. Regarded preoccupied by **SCAPHORHYNCHUS** Maximilian, 1831, a genus of birds; replaced by **SCAPHIRHYNCHOPS** Gill (see Müller 1835).
- 199 HECKEL & FITZINGER (1836). *Monographische Darstellung der Gattung Acipenser.* Ann. Wien. Mus., I.
JOHANN JAKOB HECKEL; LEOPOLD J. FITZINGER (1802-1884).
Antaceus Heckel & Fitzinger, 293; orthotype **ACIPENSER SCHYPA** Eichw.
Lioniscus Heckel & Fitzinger, 370; orthotype **ACIPENSER GLABER** Fitzinger.
200. LIÉNARD (1836). *Sur quelques poissons de l'île Maurice.* L'Institut, IV
ÉLIZÉ LIÉNARD.
Platysoma Liénard. Name preoccupied; said to be near **DULES** (KEHLIA). (Very doubtful; here quoted from Scudder. I fail to find the name in question else where.)
- 201 MÜNSTER (1836). *Capitosaurus in Keupersandstein, Gyrodus multidentis in Jurakalk, achte Belonostomus-Art; Lebias und Cyprinus in Brounkhöhle im Fichtelgebirge, etc.* Neues Jahrb. Mineral.
GEORG MÜNSTER.
Aellopos Münster, 581; orthotype **A. ELONGATUS** Münster (fossil) An extinct ally of **RHINOBATUS**.
- 202 RICHARDSON (1836). *Back's Narrative of an Arctic Land Expedition*
JOHN RICHARDSON (1787-1865)
Stenodus Richardson (appendix), 521; orthotype **SALMO MACKENZIEI** Rich. Replaces **LUCIOTRUTTA** Gthr. (1866).

203. RICHARDSON (1836). *Fauna Borcali-Americana*. III.

JOHN RICHARDSON.

Ternistia Richardson, III, 59; orthotype **BLEPSIAS VENTRICOSUS** Eschscholtz. A synonym of **HEMILEPIDOTUS** Cuv.

Salvelinus (Nilsson) Richardson, III, 169; tautotype **SALMO SALVELINUS** L. First use in the singular of Nilsson's group name "SALVELINI". Replaces **BAIONE** Dekay (1842) and **UMBLA** Rapp (1854).

204. RÜPPELL (1836). *Neuer Nachtrag zu Beschreibungen und Abbildungen neuer Fische, im Nil entdeckt*. Museum Senckenberg, II.

WILHELM PETER EDUARD SIMON RÜPPELL.

Labeobarbus Rüppell, II, 14; haplotype **LABEOBARBUS NEDGIA** Rüppell. Probably not distinct from **TOR** Gray, 1833.

Varicorhinus Rüppell, II, 14; orthotype **V. BESO** Rüppell = **LABEO VARICORHINUS** Cuv. & Val. **VARICORHINUS** Rüppell is said by Berg to include **CAPOËTA**, **SCAPHIODON**, **DILLONIA**, **GYMNOSTOMUS**, **ONYCHOSTOMA**, **PTEROCAPOËTA** and **ACAPOËTA**. Some of these have doubtless standing as subgenera.

205. YARRELL (1836). *A History of British Fishes*, etc. 2 vols.

WILLIAM YARRELL (1784-1856).

Amphioxus (Gray) Yarrell, 468; orthotype **LIMAX LANCEOLATUS** Pallas. A synonym of **BRANCHIOSTOMA** Costa.

1837

206. AGASSIZ (1837). *Recherches sur les poissons fossiles*. III (part), V (part).

LOUIS AGASSIZ.

Onchus Agassiz, III, 6; orthotype **O. MURCHISONI** Ag. (fossil).

Ctenacanthus Agassiz, III, 10; logotype **C. MAJOR** Ag. (fossil).

Oracanthus Agassiz, III, 13; orthotype **O. MULLERI** Ag. (fossil).

Gyracanthus Agassiz, III, 17; orthotype **G. FORMOSUS** Ag. (fossil).

Tristychius Agassiz, III, 21; orthotype **T. ARCUATUS** Ag. (fossil).

Ptychacanthus Agassiz, III, 22; orthotype **P. SUBLEVIS** Ag. (fossil). A synonym of **TRISTYCHIVS** Ag.

Sphenacanthus Agassiz, III, 23; orthotype **S. SERRULATUS** Ag. (fossil).

Nemacanthus Agassiz, III, 25; logotype **N. MONILIFER** Ag. (fossil).

Leptacanthus Agassiz, III, 27; logotype **L. SEMISTRIATUS** Ag. (fossil). Fossil spines of a **CHIMÆROID**, perhaps synonymous with **GANODUS**.

Asteracanthus Agassiz, III, 31; orthotype **A. ORNATISSIMUS** Ag. (fossil).

Pristeacanthus Agassiz, III, 35; orthotype **P. SECURIS** Ag. (fossil).

Myriacanthus Agassiz, III, 37; logotype **M. PARADOXUS** Ag. (fossil).

Hybodus Agassiz III, 41; orthotype **H. Plicatilis** Ag. (fossil).

Leiacanthus Agassiz, III, 55; orthotype **L. FALCATUS** Ag. (fossil).

Pleuracanthus Agassiz, III, 66; orthotype **P. LEVISSIMUS** Ag. (fossil). Name preoccupied; probably replaced by **ORTHACANTHUS** Ag.; perhaps the spine of the forms known from the teeth, as **DIPLODUS**, **DICRANODUS**, **DITTOBUS**, etc.

Hypsodon Agassiz, V, 100; logotype **MEGALODON LEWESIENSIS** Mantell (fossil). Specimens not all of one genus, some belonging to **PORTIUS** Cope (1872).

207. BONAPARTE (1834-1841). *Iconografia della fauna itolica, per le quattro classi degli animali vertebrati*. Tome, III. *Pesce*.

CARLO LUCIANO BONAPARTE (Principe de Canino e de Musignano).

This sumptuous and finely illustrated work was issued in separate fascicles from 1832 to 1842. The fishes seem to begin with fascicle VI in 1837. The last are in fascicle 160, probably issued in 1841. There is no paging, and exact dates, except for a few fascicles, are inaccessible to me. I therefore divide the work into three parts, 1837, 1840 and 1841. Fascicles 156 to 160 are subsequent to Swainson's *Natural History*, 1839, from which they quote. So far as I know, no question of nomenclature hinges on these uncertain dates. Troschel (*Archiv. Naturg.*) gives the date 1884 for fascicles "Lieferungen" VI to XI, 1837 for XVI to XX, 1838 for XXVI to XXXIII, 1839 for XXIV to XXV, and 1840 for XXVII; but these "deliveries" seem not to correspond to the fascicles.

Orectolobus Bonaparte, fasc. 7; orthotype *SQUALUS BARBATUS* Gmelin (date probably 1837). Replaces *CROSSORHINUS* M. & H.

Cerna Bonaparte fasc. 10*; orthotype *PERCA GIGAS* Brünnich = *LABRUS GUAZA* L. (1837). A synonym of *EPINEPHELUS* Bloch, as now restricted.

Cynicoglossus Bonaparte, fasc. 19; orthotype *PLEURONECTES CYNOGLOSSUS* Nilsson (not of L.) = *PLEURONECTES KITT* Walbaum. Equivalent to *MICROSTOMUS* Gottsche, which it replaces if *MICROSTOMUS* is regarded as preoccupied by *MICROSTOMA* Cuv. (1817).

Batis Bonaparte, fasc. 21*; orthotype *RAJA RADULA* De la Roche (called *DASYBATUS* in fasc. 68). A synonym of *RAJA* L.

Læviraja Bonaparte, fasc. 21*; orthotype *RAJA OXYRHYNCHUS* L.

Microchirus Bonaparte, fasc. 26*; orthotype *PLEURONECTES MICROCHIRUS* De la Roche. Same as *MONOCHIRUS* and *MONOCHIR* Cuv., not of Rafinesque; replaces *BUGLOSSUS* Gthr.

Monochirus Bonaparte, fasc. 26*; orthotype *SOLEA MONOCHIR* Bon. Same as *MONOCHIRUS* Raf.

Pampus Bonaparte, 48; orthotype (not named) but plainly *STROMATEUS CANDIDUS* Cuv. & Val. Replaces *STROMATEOIDES* Blkr., 1851.

"Diamo il nome di PAMPUS al secondo sottogenere in cui accogliamo quelle specie che non hanno pinne ventrali e portano innanzi ai raggi dorsale e dell' anale parecchie spine terminale superiormente da una lamina tagliente." (Bonaparte.) These peculiar trenchant spines are found in all the species called *STROMATEOIDES*, though buried in the flesh in the adult.

Dasybatus Bonaparte, fasc. 68; orthotype *RAJA RADULA* De la Roche. Called *BATIS* on fascicle 21; also written *DASYBATIS*. A synonym of *RAJA* L.; not *DASYBATIS* Raf. (1837).

Membras Bonaparte, fasc. 91; orthotype an "exotic species", evidently *ATHERINA MARTINICA* Cuv. & Val.

Menidia Bonaparte, fasc. 91; orthotype an "exotic species," evidently *ATHERINA MENIDIA* L.

Hepsetia Bonaparte, fasc. 91; orthotype *ATHERINA BOYERI* Risso.

Cyprinopsis (Fitzinger) Bonaparte, fasc. 92; orthotype *CYPRINUS CARASSIUS* L. (1838). A synonym of *CARASSIUS* Nilsson.

Squalius Bonaparte, fasc. 96; logotype *SQUALIUS TYBERINUS* Bon. = *LEUCISCUS SQUALUS* Bon. A synonym of *LEUCISCUS* Cuv.

Scardinius Bonaparte, fasc. 96; orthotype *LEUCISCUS SCARDAFIA* Bon.

Telestes Bonaparte, fasc. 103; orthotype *TELESTES MUTICELLUS* Bon. (1839).

Plagiusa Bonaparte, fasc. 120; orthotype (by implication) *PLEURONECTES PLAGIUSA* L. A substitute for *PLAGIOSA* Cuv.; preoccupied ("non *PLAGIOSA*, nome di crustaceo") A synonym of *SYMPHURUS* Raf. (1810).

208. CANTRAINE (1837). *Memoire sur un poisson nouveau (Acanthoderma temmincki) trouvé dans le canal de Messine*. Journ. de Bruxelles.

FRANÇOIS JOSEPH CANTRAINE (1801-1863).

Acanthoderma Cantraine, X, 1-19; orthotype A. TEMMINCKI Cantraine. A synonym of RUVEITUS Cocco.

209. CUVIER & VALENCIENNES (1837). *Histoire naturelle des poissons*. XII.
ACHILLE VALENCIENNES.

Oplopomus (Ehrenberg) Cuvier & Valenciennes, XII, 66 (reference in synonymy); orthotype O. PULCHER Ehrenb. = GOBIOUS OPLOPOMUS Cuv. & Val. Replaces CENTROGOBIUS Blkr., 1874.

Cryptocentrus (Ehrenberg) Cuvier & Valenciennes, XII, 111; orthotype C. MELEAGRIS Ehrenb. = GOBIOUS CRYPTOCENTRUS Cuv. & Val. Replaces PARAGOBIOUS Blkr. Ehrenberg's manuscript, *Zoologia: Pisces*, quoted by Cuvier and Valenciennes, seems never to have been published.

Amblyopus Cuvier & Valenciennes, XII, 139; logotype TÆNOIDES HERRMANNIANUS Lac. A synonym of TÆNOIDES Lac. 1803

Apocryptes (Osbeck) Cuvier & Valenciennes, XII, 143; orthotype GOBIOUS PECTINIROSTIS Gmelin = APOCRYPTES CHINENSIS Osbeck, 1757, and in later translations (after 1758). APOCRYPTES Cuv. & Val. is plainly a revival of Osbeck's genus, and the name ought not legitimately to be transferred to another group as has been done by Günther and Bleeker. Bleeker makes GOBIOUS BATO Ham. the type of APOCRYPTES Cuv. & Val., as this is the first species named by these authors under APOCRYPTES. But it would seem that Osbeck's haplotype (A. CHINENSIS) must be accepted in the revival of his genus, in which case APOCRYPTES (Osbeck) Cuv. & Val. replaces BOLEOPHTHALMUS Cuv. & Val. (p. 198). As against the views here expressed, it may be urged that the pre-Linnæan name APOCRYPTES Osbeck has no standing and APOCRYPTES Cuv. & Val. is really based on GOBIOUS BATO, a species actually in hand, as the description shows. APOCRYPTES CHINENSIS (PECTINIROSTRIS) was included by error, it being a member in fact of the genus BOLEOPHTHALMUS Cuv. & Val., as later writers have recognized. It may be urged further that the first designation of type of APOCRYPTES is that of Bleeker, who places it on APOCRYPTES BATO.

A further point is that accepting APOCRYPTES in the Osbeckian sense leaves the genus of Cuvier and Valenciennes without a name, unless we accept GOBILEPTES Sw. But the scales in GOBILEPTES are described as large, while those of APOCRYPTES BATO are "exceedingly small". Swainson obviously drew his GOBILEPTES from the description of GOBIOUS ACUTIPINNIS Cuv. & Val., later abandoning the genus, which he does not again notice. Among the numerous genera of sharp-tailed gobies, I have not found the proper place for (GOBILEPTES ACUTIPINNIS. This generic name, GOBILEPTES Sw., with *no species mentioned*, is interpreted by Bleeker as referring to GOBIOUS BATO and hence is regarded by him as a synonym of APOCRYPTES.

Boleophthalmus Cuvier & Valenciennes, XII, 198; orthotype GOBIOUS BODDERTI Pallas. Perhaps a synonym of APOCRYPTES (Osbeck) Cuv. & Val., which see above.

Philypnus Cuvier & Valenciennes, XII, 235; haplotype GOBIOMORUS DORMITOR Lac. Same as GOBIOMORUS Lac., as first restricted by Jordan. Gill has later limited the name to VALENCIENNEA Blkr.

Hemerocætes Cuvier & Valenciennes, XII, 311; haplotype *CALLIONYMUS ACANTHORYNCHUS* Forster.

Platyptera (Kuhl & Van Hasselt) Cuvier & Valenciennes, XII, 320; orthotype *P. ASPRO* Van Hasselt. Name preoccupied, replaced by *RHVACIETHYS* Boulenger, 1901.

Halieutæa Cuvier & Valenciennes, XII, 455; haplotype *HALIEUTÆA STELLATA* Cuv. & Val.

210 EGERTON (1837). (*Catalogue of Fossil Fishes.*)

PHILIP DE MALPAS GREY EGERTON (1806-1881).

Isurus (Agassiz) Egerton; orthotype *I. MACROURUS* Ag. (fossil). Name only; validated by Agassiz, 1844. Name preoccupied; replaced by *SAURICHTHYS* Woodw., 1901.

211 FITZINGER (1837). *Vorläufiger Bericht über eine höchst interessante Entdeckung Dr. Natterers in Brasil.* Oken's *Isis*.

LEOPOLD JOSEPH FRANZ FITZINGER.

Lepidosiren Fitzinger, 379; orthotype *L. PARADOXA* Fitzinger.

212 FRIES (1837). *Pterycombis, ett nytt fisksläkte från Ishafvet.* Handl. K. Vetensk. Akad. Stockholm.

BENGT FREDRIK FRIES (1799-1839).

Pterycombis Fries, 14; orthotype *P. BRAMA* Fries.

213. GEINITZ (1837). *Thüringischen Muschelkalk.*

HANS BRUNO GEINITZ (1814-1900).

Acrodus (Agassiz) Geinitz, 21; orthotype *A. GAILLARDOTI* Ag. (fossil). (Also in *Poissons fossiles*, III, 139, 1838.)

214. HECKEL (1837). *Ichthyologische Beiträge.* Ann. Wiener Mus., II.

JOHANN JAKOB HECKEL.

Scorpænopsis Heckel, II, 158; orthotype *SCORPÆNA NESOGALLICA* Cuv. & Val.

Trachydermus Heckel, II, 159; orthotype *T. EFASCIATUS* Heckel. Name three times preoccupied as *TRACHYDERMA*; replaced by *CENTRIDERMICHTHYS* Rich.

215. KUTORGA (1837). *Beitrag zur Geognosie und Paleontologie Dorpats und seiner nächsten Umgebungen.* St. Petersburg, IV, for. 1835. Zweiter Beitrag, 1837.

STEPAN SEMENOVICH KUTORGA (1812-1861).

Ichthyosauroides Kutorga, II, 35; orthotype *TRIONYX SPINOSUS* Kutorga (fossil). Name rejected as inappropriate, the genus being supposed to be reptilian; an inadequate reason for change of name to *HETEROSTIUS* Asmuss, 1856.

216 MÜLLER & HENLE (1837). *Gattungen der Hai- und Rochen nach ihrer Arbeit, "Ueber die Naturgeschichte der Knorpelische".* Ber. Akad. Wiss. Berlin.

JOHANNES MÜLLER; FRIEDRICH GUSTAV JAKOB HENLE.

Tæniura Muller & Henle, II:7; logotype *TRYGON ORNATA* Gray. *RAJA LYMMA* Forskål.

217 MÜLLER & HENLE (1837). *On the Generic Characters of Cartilaginous Fishes, with Descriptions of New Genera.* Mag. Nat. Hist., II.

JOHANNES MÜLLER, FRIEDRICH GUSTAV JAKOB HENLE.

- Hemitrygon** Müller & Henle, 90; orthotype *TRYGON BENNETTI* M. & H.
Ginglymostoma Müller & Henle, 113; orthotype *SQUALUS CIRRATUS* Gmelin.
Scoliodon Müller & Henle, 114; orthotype *CARCHARIAS LATICAUDUS* M. & H.
Gymnura Müller & Henle, 117; orthotype *RAJA ASPERRIMA* Bl. & Schn. Name preoccupied; replaced by *UROGYMNUS* M. & H.
Himantura Müller & Henle, 400; orthotype *RAJA UARNAK* Forskål.
Urogymnus Müller & Henle, 434; logotype *RAJA ASPERRIMA* Bl. & Schn. Replaces *ANACANTHUS* Ehrenb. and *GYMNURA* M. & H., both preoccupied.
218. REDFIELD (1837). *Fossil Fishes of Connecticut and Massachusetts with a Notice of an Undetermined Genus*. Ann. Lyc. Nat. Hist. N. Y.
 JOHN HOWARD REDFIELD (1825-1895).
Catopterus Redfield, IV, 39; orthotype *C. GRACILIS* Redfield (fossil). Preoccupied by *CATOPTERUS* Ag. (1833); replaced by *REDFIELDIUS* Hay (1899).
219. REINHARDT (1837). *Bythites, novum genus piscium*. Danske Vid. Selsk. Afh., VI.
 JOHANNES CHRISTOPHER HAGEMANN REINHARDT.
Bythites Reinhardt, VI, 77; orthotype *B. FUSCUS* Reinh.
220. SMITH (1837). *On the Necessity for a Revision of the Groups Included in the Linnaean Genus Squalus*. Proc. Zool. Soc. London.
 ANDREW SMITH.
Poroderma Smith, 85; logotype *SQUALUS AFRICANUS* Gmelin.
Catulus Smith, 85; orthotype *SCYLLIUM CAPENSE* Smith. Name preoccupied in insects, partly equivalent to *SCYLLIORHINUS* Blainv., 1816.
Hemiscyllium Smith, 86; logotype *SQUALUS OCELLATUS* Bonneterre.
Carcharodon Smith, 86; orthotype *CARCHARODON CAPENSIS* Smith — *SQUALUS CARCHARIAS* L.
Leptocarias Smith; *Ill. S. Afr. Zool.*; orthotype *TRIENODON SMITHI* Gray; quoted by Agassiz, *Nom. Zool.*, 1846; hence prior to *LEPTOCARCHARIAS* Gthr., 1870. Replaces *LEPTOCARCHARIAS*.
221. THOMPSON (1837). *Notes Relating to the Natural History of Ireland, with a Description of a New Genus of Fishes (Echiodon)*. Proc. Zool. Soc. London, V.
 WILLIAM THOMPSON.
Echiodon Thompson, 55; orthotype *E. DRUMMONDI* Thompson. A synonym of *CARAPUS* Raf. (*FIERASFER* Cuv.).

1838

222. AGASSIZ (1838). *Recherches sur les poissons fossiles*. III, IV (parts).
 LOUIS AGASSIZ.
Ptychopleurus Agassiz, III, 67; orthotype *PTYCHACANTHUS FAUGASI* Ag. A fossil ally of *MYLIOBATIS*.
Oxyrhina Agassiz, III, 86; logotype *O. MANTELLI* Ag. (fossil). Name preoccupied, the genus not separable from the living genus *ISURUS* Raf. (1810).
Orodus Agassiz, III, 96; logotype *O. CINCTUS* Ag. (fossil).
Ctenoptychius Agassiz, III, 99; orthotype *C. APICALIS* Ag. (fossil).
Helodus Agassiz, III, 104; orthotype *H. SIMPLEX* Ag. (fossil).
Chomatodus Agassiz, III, 107; logotype *C. CINCTUS* Ag. (fossil). An ally of *COCHLIOBATUS*, of undetermined value.

- Cochliodus** Agassiz, 111, 113; orthotype *C. CONTORTUS* Ag. (fossil).
Strophodus Agassiz, 111, 116; logotype *S. RETICULATUS* Ag. (fossil). A synonym of *ASTERACANTHUS*.
Ceratodus Agassiz, 111, 129; orthotype *C. LATISSIMUS* Ag. (fossil). Considered by Gistel as preoccupied by the earlier *CERATODON*; *SCROPIA* Gistel (1848) has been proposed as a substitute.
Ctenodus Agassiz, 111, 137; orthotype *C. CRISTATUS* Ag. (fossil). Considered as preoccupied by the earlier *CTENODON*; *RHADAMISTA* Gistel (1848) has been proposed as a substitute.
Acrodus Agassiz, 111, 139; orthotype *A. GAILLARDOTI* Ag. (fossil). Name first published by Geinitz, 1837; regarded as preoccupied by *ACRODON* Zimm. (1832), a genus of beetles; *ADIAPNEUSTES* Gistel (1848) being suggested as substitute. But *THECTODUS* Meyer & Plieninger (1844) is earlier than *ADIAPNEUSTES*.
Hoplopteryx Agassiz, IV, 4; logotype *H. ANTIQUUS* Ag. (fossil).
Sphenocephalus Agassiz, IV, 4; orthotype *S. FISSICAUDUS* Ag. (fossil).
Acanus Agassiz, IV, 4; logotype *A. OVALIS* Ag. (fossil). (Printed first without explanation in *Neues Jahrb.*, 1834, 305).
Acrogaster Agassiz, IV, 5; orthotype *A. PARVUS* Ag. (fossil).
Podocys Agassiz, IV, 5, 135; orthotype *P. MINUTUS* Ag. (fossil).
Sparnodus Agassiz, IV, 10; orthotype *SPARUS MACROPHITHALMUS* Volta (fossil). (Printed first without definition, *Neues Jahrb.*, 1835, 300.)
Callipteryx Agassiz, IV, 12; logotype *C. SPECIOSUS* Ag. (fossil). (Also printed as name only in *Neues Jahrb.*, 1835, 293.)
Semiophorus Agassiz, IV, 14; orthotype *KURTUS VELIFER* Volta (fossil).
Pygæus Agassiz, IV, 16, 256; logotype *P. COLEANUS* Ag. (fossil).
Macrostoma Agassiz, IV, 15, 260; orthotype *M. ALTUM* Ag. (fossil). (Name twice preoccupied.)

- 223 BUCKLAND (1838). *On the Discovery of Fossil Fishes in the Bagshot Sands at Goldworth Hill, Four Miles North of Guildford*. Proc. Geol. Soc London, II.

WILLIAM BUCKLAND (1784-1856).

- Edaphodon** Buckland, II, 687; logotype *CHIMERA MANTELLI* Buckland (fossil). According to Dr. L. Hussakof, the following genera based on Chimeroid teeth are all synonyms of *EDAPHODON*, namely, *ISCHIODUS*, *ETMYLODUS*, *PASSALODON*, *PSITTACODON*, *DIPRISTIS*, *DIPHRISSA* and *BRYACTINUS*.
Passalodon Buckland, II, 687; orthotype *CHIMERA AGASSIZI* Buckland (fossil). A synonym of *EDAPHODON*.
Ameibodon Buckland. This name is quoted by Agassiz from the *Proc. Zool. Soc. London*, 1839. I do not find it there.

- 224 COCCO (1838). *Su di alcuni salmonidi del mare di Messina, lettera al Ch. D. Carlo Luciano Bonaparte*. Nuovi Ann. Sci. Nat., II.

ANASTASIO COCCO

- Gymnocephalus** Cocco, 26; orthotype *G. MESSINENSIS* Cocco. Name preoccupied, a synonym of *CENTRODINHIUS* Lac.
Mauroliscus Cocco, 32; orthotype *M. AMETHYSTINOPUNCTATUS* Cocco.
Odontostomus Cocco, 32, orthotype *O. HYALINUS* Cocco. Regarded as preoccupied by *ODONTOSTOMUS* (1887), a genus of mollusks; replaced by *EVERMANNELLA* Fowler.

225. GRAY (1838). (*Aracana*.) Ann. Hist., I.

JOHN EDWARD GRAY.

Aracana Gray, I, 110; logotype *A. ORNATA* Gray. (Printed without description in 1833.)

226. HECKEL (1838). *Fische aus Caschmir gesammelt und herausgegeben von Carl Freiherrn von Hügel*, etc. Wien.

JOHANN JAKOB HECKEL.

Schizothorax Heckel, 11; logotype *S. PLAGIOSTOMUS* Heckel as fixed by Bleeker, 1863; limited by Günther in 1868 to *S. CURVIFRONS*, etc. Same as *OREINUS* McCl., which it replaces if valid

227. LOWE (1838). *Piscium Maderensium species quædam novæ vel minus rite cognita breviter descriptæ*, etc. Trans. Cambridge Phil. Soc., VI.

RICHARD THOMAS LOWE.

Polymixia Lowe, VI, 198; orthotype *P. NOBILIS* Lowe.

228. MÜLLER & HENLE (1838). *Systematische Beschreibung der Plagiostomen*. Berlin (1838 to 1841).

JOHANNES MÜLLER; FREDERICK GUSTAV JAKOB HENLE.

Chiloscyllium Müller & Henle, 17; logotype *SCYLLIUM PLAGIOSUM* Bennett.

Crossorhinus Müller & Henle, 21; orthotype *SQUALUS BARBATUS* Gmelin. A synonym of *ORECTOLOBUS* Bon.

Stegostoma Müller & Henle 24; orthotype *SQUALUS FASCIATUS* Bloch.

Aprion Müller & Henle, 32; orthotype *CARCHARIAS ISODON* M. & H. Name preoccupied in fishes; replaced by *AFRIONODON* Gill, 1861.

Hypoprion Müller & Henle, 34; orthotype *CARCHARIAS MACLOTI* M. & H.

Prionodon Müller & Henle, 36; logotype *SQUALUS GLAUCUS* L. Preoccupied; replaced by *PRIONACE* Cantor, 1849.

Triakis Müller & Henle, II, 36; orthotype *T. SCYLLIUM*. Spelled *TRIACIS* by authors.

Triænodon Müller & Henle, 55; orthotype *CARCHARIAS OBESUS* M. & H.

Galeocerdo Müller & Henle, 59; orthotype *G. TIGRINUS* M. & H.

Loxodon Müller & Henle, 61; orthotype *L. MACRORHINUS* M. & H.

Thalassorhinus Müller & Henle, 62; orthotype *T. VULPECULA* M. & H.

Carcharodon (Smith) Müller & Henle, 70; orthotype *C. RONDELETI* M. & H. = *SQUALUS CARCHARIAS* L.

Alopecias Müller & Henle, 74; orthotype *SQUALUS VULPES* Gmelin = *S. VULPINUS* Bonnaterre. A revised spelling of *ALOPIAS* Raf.

Triglochis Müller & Henle, II, 88; orthotype *SQUALUS FEROX* Risso. A synonym of *ODONTASPIS* Ag. and of *CARCHARIAS* Raf.

Centrophorus Müller & Henle, 89; logotype *C. GRANULATUS* M. & H. Perhaps a synonym of *DALATIAS* Raf.

Læmargus Müller & Henle, 93; orthotype *SQUALUS BOREALIS* Scoresby. A synonym of *SOMNIOSUS* Le Sueur.

Pristiophorus Müller & Henle, 98; orthotype *PRISTIS CIRRATUS* Latham.

Rhynchobatis Müller & Henle, 111; orthotype *RHINOBATUS LÆVIS* Bl. & Schn.

Syrhhina Müller & Henle, 113; logotype *S. COLUMNÆ* M. & H. as restricted by Jordan & Evermann, 1896, the earliest definite restriction I have found. Garman, 1912, indicates *SYRRHINA BREVIROSTRIS* M. & H. as type. This is a species referred to *ZAPTERYX* J. & G. As here understood, *SYRRHINA* is a synonym of *RHINOBATUS*.

Trygonorhina Müller & Henle, 124; orthotype *T. FASCIATA* M. & H.

Platyrrhina Müller & Henle, 125; logotype *RAJA SINENSIS* Lac. Name regarded as preoccupied by *PLATYRHINUS*; replaced by *ANALITHIS* Gistel (1848) and later by *DISCOBATUS* Garman (1881).

Astrae Müller & Henle, 130; logotype *RAJA CAPENSIS* Gmelin. A synonym of *NARKE* Kaup, 1826.

Uraptera Müller & Henle, 155; logotype *U. AGASSIZI* M. & H.

Sympterygia Müller & Henle, 155; orthotype *S. BONAPARTII* M. & H.

Pteroplatea Müller & Henle, 168; orthotype *RAJA ALTAVELA* L.

Hypolophus Müller & Henle, 170; orthotype *RAJA SEPIEN* Forskål. A synonym of *PASTINACIUS* Rüppell, if this name is accepted (not *PASTINACA* Nardo).

Tæniura Müller Henle, 171; logotype *RAJA LYMMA* Forskål.

Urolophus Müller & Henle, 173; logotype *RAJA CRUCIATA* Lac.

Trygonoptera Müller & Henle, 174; orthotype *T. TESTACEA* M. & H.

Aëtoplatea Müller & Henle, 175; orthotype *A. TENTACULATA* M. & H.

Ceratoptera Müller & Henle, 186; orthotype *CEPHALOPTERA VAMPIRUS* Mitchill. A synonym of *MANTA* Bancroft

Centroscyllium Müller & Henle, 191; orthotype *SPINAX FABRICII* Reinh.

229. MÜLLER & HENLE (1838). (*Plagiostomen*.) Charlesworth's Magazine of Natural History, 1838.

JOHANNES MÜLLER; FRIEDRICH HENLE.

Leptocharias Müller & Henle, II, 36; orthotype *TRILENODON SMITHI* Gray. Same as *LEPTOCARIAS* Smith, 1837.

230 NORDMANN (1838). *Bericht an die kaiserliche Akademie der Wissenschaften, über eine neue Fischgattung (Hexacanthus) aus der Familie der Gobioiden*. Bull. Acad. Sci. St. Petersburg, III.

ALEXANDER VON NORDMANN.

Hexacanthus Nordmann; orthotype *GOBIOUS MACROCEPHALUS* Pallas. Name regarded as preoccupied by *HEXACANTHA*; replaced by *BENTHOPIHILUS* Eichw.

231. REINHARDT (1838). *Ichthyologische bidrag til den Grönlandske fauna*, etc. Danske Vid. Selsk. Aftl. Kjøbenhavn, VII.

JOHANNES CHRISTOPHER HAGEMANN REINHARDT.

Himantolophus Reinhardt, 74; orthotype *H. GRÖNLANDICUS* Reinh.

Citharus Reinhardt, 116; orthotype *PLEURONECTES PLATESSOIDES* Fabricius, not of Rose, 1793, nor of Bleeker, 1862. A synonym of *HIPOGLOSSOIDES* Gottsche.

Gymnelis Reinhardt, VII, 130; orthotype *OPHIDIUM VIRIDE* Fabricius.

Lycodes Reinhardt, VII, 153; logotype *L. VAHLI* Reinh.

232. SWAINSON (1838). *The Natural History of Fishes, Amphibians and Reptiles, or Monocardian Animals*. I.

WILLIAM SWAINSON (1789-1855).

Pedalion (Guilding) Swainson, I, 199; II, 195, 329; orthotype (*TETRODON MOLA* L.). A synonym of *MOLA* Kolr.

Ariosoma Swainson, I, 220; II, 195; (no type named); logotype, as restricted by Bleeker and by Swain, *OPHISOMA ACUTA* Sw. = *MURENA BALEARICA* De la Roche; replaced by *OPHISOMA* Sw., on II, 334; a name preoccupied; replaced *CONGERMURENA* Kaup and *CONGRELLUS* Ogilby. Several other generic names defined by Swainson in Vol. II (1839) are casually mentioned with a few words of comparison. Thus *BREVICEPS* (238, 343, 345), *CYPSILURUS* (I, 299). But when no question of priority arises, these need not be mentioned further

- Breviceps** Swainson, I, 328; II, 189; orthotype *B. FILAMENTOSUS* Sw. = *ARIUS BAHIENSIS* Castelnau. Name preoccupied; replaced by *FELICHTHYS* Sw. II, 305. A synonym of *BAGRE* (Cuv.) Oken, as restricted to its tautotype.

1839

233. AGASSIZ (1839). *Künstliche Steinkerne von Konchylien und Fische*. Neues Jahrb. Mineral.

LOUIS AGASSIZ.

- Eugnathus** Agassiz, II, 8; logotype *E. MINOR* Ag. (fossil); regarded as preoccupied by *EUGNATHA*; replaced by *FURO* Gistel (1848).

234. AGASSIZ (1839). *Fishes of the Old Red Sandstone*. In Murchison's *Silurian System*.

LOUIS AGASSIZ.

- Holoptychus** Agassiz, 68; orthotype *H. NOBILISSIMUS* Ag. (fossil). Usually written *HOLOPTYCHIUS*.

- Sclerodus** Agassiz, 606; orthotype *S. PUSTULIFERUS* Ag.

- Thelodus** Agassiz, 606; orthotype *T. PARVIDENS* Ag. (fossil).

- Plectrodus** Agassiz, 606, 704; logotype *P. MIRABILIS* Ag. (fossil). A synonym of *SCLERODUS* Ag.

- Sphagodus** Agassiz (not quoted by Woodward). Name of an Ichthyodorulite or fossil fin-spine.

235. AGASSIZ (1839). *Recherches sur les poissons fossiles*. II, IV (part).

LOUIS AGASSIZ.

- Sphærodus** Agassiz, II, 215; logotype *S. CONICUS* Ag. (fossil). Not *SPHÆRODON* Rüppell.

- Pristigenys** Agassiz, IV, 136 orthotype *P. MACROPIPTHALMUS* Ag. (fossil). (Printed as name only in *Neues Jahrb.*, 1835, 299.)

- Ptychodus** Agassiz, III, 150; orthotype *P. MAMMILARIS* Ag. (fossil).

- Odonteus** Agassiz, IV, 178; orthotype *O. SPAROIDES* Ag. (fossil).

- Pterygocephalus** Agassiz, IV, 190; orthotype *P. PARADOXUS* Ag. (fossil). (Also as name only, *Neues Jahrb.*, 1835, 295.)

236. BONAPARTE (1839). *Systema Ichthyologicum*. Mem. Sci. Nat. Neuf châtél, II, 1839.

CHARLES LUCIEN BONAPARTE.

- Pristidurus** Bonaparte, II, II; orthotype *GALEUS MELASTOMUS* Raf. Commonly written *PRISTIURUS*, but the form here given is apparently earlier.

237. CUVIER & VALENCIENNES (1839). *Histoire naturelle des poissons*. XIII, XIV.

ACHILLE VALENCIENNES.

- Cossyphus** Cuvier & Valenciennes, XIII, 102; logotype *BODIANUS BODIANUS* Bloch. Identical with *BODIANUS* Bloch, as restricted, and *HARPE* Lac. The name *Cossyphus* is also preoccupied.

- Acantholabrus** Cuvier & Valenciennes, XIII, 242; logotype *LUTJANUS PALLONI* Risso.

- Ctenolabrus** Cuvier & Valenciennes, XIII, 223; logotype *LABRUS RUPESTRIS* L.

- Bagrus** Cuvier & Valenciennes, XIV, 388; logotype *SILURUS BAJAD* Forskål, not *BAGRE* (Cuv.) Oken, which is *FELICHTHYS* Sw. *BAGRUS* is regarded as

preoccupied by BAGRE, both being forms of "Les BAGRES" Cuv. If so, it is replaced by PORCUS Geoffroy St. Hilaire, 1818.

238. LAY & BENNETT (1839). *Fishes*. (In the *Zoology of Captain Beechey's Voyage*.)

G. T. LAY; EDWARD TURNER BENNETT.

Peropus Lay & Bennett, 59; orthotype BLEPSIAS BILOBUS Cuv. & Val. Name preoccupied; replaced by HISTIOCOTTUS Gill, 1888.

239. LOWE (1839). *A Supplement to a Synopsis of the Fishes of Madeira*. Proc. Zool. Soc. London, VII.

RICHARD THOMAS LOWE.

Callanthias Lowe, 76; orthotype C. PARADISÆUS = BODIANUS PELORITANUS Cocco.

Aphanopus Lowe, 79; orthotype A. CARBO Lowe.

Pompilus Lowe, 81; orthotype CORYPHÆNA POMPILUS L. = POMPILUS RONDELETI Lowe. A synonym of CENTROLOPHUS Lac.

Alysia Lowe, 87; orthotype A. LORICATA Lowe = SCOPELUS COCCOI Cocco. Name preoccupied; replaced by RHINSCOPELUS Lütken.

Acanthidium Lowe, 91; logotype A. PUSILLUM Lowe, as restricted by Jordan and Evermann, 1896. Garman, 1913, chooses the second species named by Lowe, A. CALCEUS, a species of DEANIA, as the type. As first restricted, ACANTHIDIUM is a synonym of ETMOPTERUS Raf.

240. McCLELLAND (1839). *Indian Cyprinidæ*. Asiatic Researches, XIX.

JOHN McCLELLAND (1805-1875).

Oreinus McClelland, 273; logotype O. GUTTATUS McCl. Regarded by Gistel as preoccupied by OREINA, the name ENGILOTTOGASTER substituted for it. Probably a synonym of SCHIZOTHORAX Heckel.

Systomus McClelland, 284; logotype S. IMMACULATUS McCl.

Perilampus McClelland, 288; logotype CYPRINUS DEVARIO Ham. A synonym of BARILIUS.

Opsarius McClelland, 295; logotype O. MACULATUS McCl. Apparently a synonym of BARILIUS Ham.

Psilorhynchus McClelland, 300; logotype CYPRINUS SUCATIO Ham. A synonym of HOMALOPTERA Van Hasselt.

Aplocheilus McClelland, 301; logotype A. CHRYSOSTIGMUS McCl. = ESOX PANCHAX Ham. Name corrected to HAPLOCHILUS Gunther.

Schistura McClelland, 306; logotype COBITIS RUPECUCLA McCl. A synonym of BARBATULA Linck.

Gonorhynchus McClelland, 373; logotype G. BREVIS McCl. Not GONORHYNCHUS of Gronow and Scopoli (1777). A synonym of CROSSOCHEILUS Van Hasselt.

Hymenophysa McClelland, 443; logotype COBITIS DARIO Ham. Corrected to HYMENOPHYSA by Gunther; a synonym of BOTIA Gray.

241. McCLELLAND (1839). *Observations on Six New Species of Cyprinidæ with an Outline of a New Classification of the Family*. Journ. Asiatic Soc. Benal, VIII, 941-947.

JOHN McCLELLAND

Platycara McClelland, VIII, 947; orthotype P. NASUTA McCl. A synonym of GARRA Ham., and DISCOGNATHUS Heckel

242. MITCHELL (1839). *Three Expeditions into the Interior of Eastern Australia*. Ed. II.

JAMES MITCHELL.

Tandanus Mitchell, I, 95; orthotype *PLOTOSUS TANDANUS* Mitchell; replaces *COPIDOGLANIS* Gthr., 1864.

243. MÜLLER (1839). *Vergleichende Anatomie der Myxinoiden, der Cyclostomen mit durchbohrten Gaumen*. IV. *Ueber das Gefäß System*. Abh. Akad. Wiss. Berlin, 1839.

JOHANNES MÜLLER.

Heteropneustes Müller, 243; orthotype *SILURUS FOSSILIS* Bloch. Said to be the same as *SILURUS SINGIO* Ham., 243 (also in *Wieg. Arch.*, 1839, 115). Replaces *SACCOBRANCHUS* Cuv. & Val., 1848.

Amphipnous Müller, 244; orthotype *UNIBRANCHAPERTURA CUCHIA* Ham.

Physogaster Müller, 252; orthotype *TETRAODON LUNARIS* Bl. & Schn. Name preoccupied; replaced by *GASTROPHYSUS* Müller. A synonym of *LAGOCEPHALUS* Swain.

Arothron Müller, 252; orthotype *A. TESTUDINARIUS* Müller = *TETRAODON RETICULARIS* Bl. & Schn. A synonym of *OVIDES* Dum.

Cheilichthys Müller, 252; orthotype *TETRAODON TESTUDINEUS* L. A synonym of *SPHEROIDES* Dum.

Chelonodon Müller, 252; orthotype *TETRODON PATOCA* Ham.

244. MÜNSTER (1839). *Ueber einige merkwürdige Fische aus dem Kupferschiefer und dem Muschelkalk*. Beiträge zur Petrefactenkunde.

GEORG MÜNSTER.

Ascalabos Münster, I, 112; orthotype *A. VOITHI* Münster (fossil). A synonym of *LEPTOLEPIS*.

245. NARDO (1839). *Considerazioni sulla famiglia dei pesci Mola, e sui caratteri che li distinguono*. Ann. Sci. Lombardo-Veneto, X.

GIOVANNI DOMENICO NARDO.

Pallasia Nardo, V, 10, 112; orthotype *P. PALLASI* Nardo. A larval form of *MOLA* Kölr.

Ranzania Nardo, V, 10, 105; orthotype *TETRAODON TRUNCATUS* Retzius.

246. OWEN (1839). *On a New Species of the Genus Lepidosiren of Fitzinger and Natterer, L. Annectens*. Proc. Linn. Soc. London, 1839, I, 27-32.

RICHARD OWEN (1810-1890).

Protopterus Owen, 27; orthotype *LEPIDOSIREN ANNECTENS* Owen.

247. OWEN (1839). (*Fossil Fishes.*) Report British Association for 1838 (1839). RICHARD OWEN.

Dictyodus Owen, 142; orthotype *D. DESTRUCTOR* Owen (fossil) (1854).

248. RANZANI (1839). *Dispositio familiae Molarum in genera et in species*. Novi Comment. Acad. Sci. Inst. Bonon., III.

CAMILLO RANZANI.

Ozodura Ranzani, 81; orthotype *O. ORSINI* Ranzani = *MOLA MOLA* (L.). A synonym of *MOLA* Kölr.

Tympanomium Ranzani, 81; orthotype *T. PLANCI* Ranzani. A synonym of *MOLA*.

Trematopsis Ranzani, 81; orthotype *T. WILLUGHBEII* Ranzani. A synonym of *MOLA*.

249. RICHARDSON (1839). *Description of Fishes Collected at Port Arthur in Van Diemen's Land*. Proc. Zool. Soc. London, VII.

JOHN RICHARDSON.

Latris Richardson, 98; orthotype *L. HECATEIA* Rich.

Nemadactylus Richardson, 98; orthotype *N. CONCINNUS* Rich. Spelled *NEMATO-DACTYLUS* by Gill.

250. STORER (1839). *A Report on the Fishes of Massachusetts*. Boston Journ. Nat. Hist., II.

DAVID HUMPHREYS STORER (1804-1891).

Cryptacanthodes Storer, 28; orthotype *C. MACULATUS* Storer.

251. SWAINSON (1839). *The Natural History of Fishes, Amphibians and Reptiles or Monocardian Animals*. II.

WILLIAM SWAINSON.

In a review of Swainson's *Genera of Fishes*, Proc. Acad. Nat. Sci. Phila., 1882, page 272, Dr. Joseph Swain has made identifications of all of the series Swainson's genera, indicating a logotype for each. This designation of type must stand in every case, except when a prior indication has been made, as was done in a few cases by Bonaparte and by Bleeker. Swainson's work is perhaps the last and certainly the most unwelcome of an unfortunate series to which belong Scopoli's *Introductio*, Fischer's *Zoognosia*, Rafinesque's *Analyse de la Nature*, works which treat of the whole scope of Ichthyology, adding new genera here and there, but without special investigation of the animals concerned, leaving their generic names imperfectly defined as a burden to the real students who must give to these names their final meaning. Of the 153 new names introduced by Swainson, about 30 must be retained on the score of priority of date, but there is not a dozen of the whole number based on any clear understanding of the relations of the species indicated. In Chapter I of Vol. 2, on pages 167 to 197, Swainson gives an analytical key to the genera he recognizes. In this part no species are mentioned and in several cases the genera bear other names when they appear later in the regular text in Chapter II of Vol. 2 (197-339).

Erosa Swainson, II, 61; tautotype *SYNANCEIA EROSA* Langsdorff; type not indicated but understood from context, and from the generic name chosen. The genus is valid and was revived by Jordan & Starks (1904).

Trichosomus Swainson, II, 61, 265; logotype *APISTUS TRACHINOIDES* Cuv. & Val. Accidentally spelled also *TRICHOPHASIA* on page 61. Regarded as preoccupied by *TRICHOSOMA*, a genus of worms, and by *TRICHOSOMUS*, a genus of beetles; replaced by *VESPICULA* Jordan & Rich. *PROSORODASY* Cantor, originally a substitute name for *APISTUS*, is transferred by Gunther to *A. TRACHINOIDES*, an arrangement apparently not allowable, as Cuvier does not mention that species among "les APISTES". *TRICHOPHASIA*, an error, not a new name, seems also ineligible.

Trichophasia Swainson, II, 61; (used evidently by error of proof-reader for *TRICHOSOMUS*) which form appears before and after on page 61 and formally on page 279.

Clinitrachus Swainson, II, 75; II, 276; orthotype (on p. 75) *BLENNIUS VARIABLEIS* Raf., a species not mentioned on page 276, hence *B. SUPERCILIOSUS* L., a species of *CLINUS*, was indicated as type by Swain. A synonym of *CRISTICEPS* Cuv. & Val (1836).

- Blennitrachus** Swainson, II, 78; II, 274; orthotype *PHOLIS QUADRIFASCIATUS* Wood. A synonym of *CHASMODES* Cuv.
- Cichlaurus** Swainson, II, 173; haplotype (230) *LABRUS PUNCTATUS* Bloch. Later called *CICHLASOMA*, which name it should replace.
- Dendrochirus** Swainson, II, 180; logotype *PTEROIS ZEBRA* Cuv. & Val.
- Pteropterus** Swainson, II, 180; logotype (p. 264) *PTEROIS RADIATUS* Cuv. & Val. A synonym of *PTEROIS* Cuv.
- Psilosomus** Swainson, II, 183; logotype *TÆNIOIDES HERRMANNIANUS* Lac. A synonym of *TENIOIDES* Lac.
- Gobileptes** Swainson, II, 183; no type named; orthotype intended (as is evident from Swainson's description) *GOBIUS ACUTIPINNIS* Cuv. & Val. "like *GOBIUS*, but the caudal lanceolate and the scales large". Bleeker (1876) has, however, fixed the type, none having been named before, on *GOBIUS BATO* Ham. This raises a question in nomenclature already noted under *APOCRYPTES* (1837).
- Salmostoma** Swainson, II, 184; logotype *CYPRINUS BACAILA* Ham. on page 284, where the genus is called *SALMOPHASIA*. Replaces *SECURICULA* Gthr., 1868.
- Scrophicephalus** Swainson, II, 187; no type named, *MORMYRUS CASCHIVE* Hasselquist intended ("dorsal fin single, very long; snout produced"). A synonym of *MORMYRUS* L., as restricted by Gill (1862).
- Ariosoma** Swainson, II, 194; logotype as restricted by Bleeker, 1864, *OPHISOMA ACUTA* Sw. = *MURENA BALEARICA* De la Roche. Replaces *CONGERMURENA* Kaup (1856) and *CONGRELLUS* Ogilby 1898.
- Leiodon** Swainson, II, 194; logotype *LEIOSOMUS MARMORATUS* Sw. = *TETRAODON CUT CUTIA* Ham., as defined by Bleeker (1865). Swain restricts the name *LEIOSOMUS* as later substituted by Swainson for *LEIODON*, to *LEIOSOMUS LAEVISSIMUS* Sw., which is *TETRAODON SPENGLERI* Bloch, a species of *SPHEROIDES*. *LEIODON* Sw. has precedence over *LEIODON* Owen, 1841, and replaces *MONOTRETA* Bibron.
- Canthigaster** Swainson, II, 194; logotype *TETRAODON ROSTRATUS* Bloch. Called *PSILONOTUS* later in the text; replaces *ANOSMIUS* Peters.
- Cromileptes** Swainson, II, 201; logotype *SERRANUS ALTIVELIS* Cuv. & Val. Restricted by Bleeker (1875) to *S. ALTIVELIS*, thus replacing *SERRANICHTHYS* Blkr. Later restricted by Swain to *EPINEPHELUS GIGAS*.
- Cynichthys** Swainson, II, 201; haplotype *PERCA FLAVOPURPUREA* Bennett = *HOLOCENTRUS FLAVOCÆRULEUS* Lac. A synonym of *EPINEPHELUS* (not *PLECTORHYNCHUS* as stated by Swain).
- Variola** Swainson, II, 202; haplotype *V. LONGIPINNA* Sw. = *PERCA LOUTI* Forskål.
- Uripheæton** Swainson, II, 202; orthotype *SERRANUS PHAËTON* Cuv. & Val. = *U. MICROLEPTES* Sw. This genus is based on a made-up fish, a *CEPHALOPHOLIS*, with the tail of a *FISTULARIA* attached. A synonym of *CEPHALOPHOLIS* Bl. & Schn.
- Elastoma** Swainson, II, 202; type *ETELIS OCLATUS* (Cuv. & Val.). A synonym of *ETELIS* Cuv.
- Rabdophorus** Swainson, II, 211; haplotype *CHELETODON EPHIPIUM* Bloch. A subdivision of *CHELETODON*.
- Genicanthus** Swainson, II, 212; logotype *HOLACANTHUS LAMARCKI* (Cuv.) A synonym of *HOLACANTHUS* Lac.
- Microcanthus** Swainson, II, 215; haplotype *CHELETODON STRIGATUS* Cuv., a wilful misprint for *MICRACANTHUS*.

- Chrysiptera** Swainson, 11, 216; logotype GLYPHIDODON AZUREUS Q. & G. A subgenus under ABUDEUDUF.
- Microgaster** Swainson, 11, 216; haplotype ETROPLUS CORUCHI Cuv. & Val. = CHLETODON MACULATUS Bloch. Equivalent to PARETROPLUS Blkr. A synonym of ETROPLUS Cuv. & Val. as restricted.
- Chætolabrus** Swainson, 11, 216; logotype CHLETODON SURATENSIS Bloch. A synonym of ETROPLUS Cuv.
- Chrysoblephus** Swainson, 11, 221; haplotype SPARUS GIBBICEPS Cuv. A section under SPARUS L.
- Argyrops** Swainson, 11, 221; haplotype SPARUS SPINIFER Forskål. A section under SPARUS L.
- Calamus** Swainson, 11, 221; haplotype PAGELLUS CALAMUS Cuv. & Val. = CALAMUS MEGACEPHALUS Sw.
- Lithognathus** Swainson, 11, 222; haplotype SPARUS CAPENSIS Cuv.
- Nemipterus** Swainson, 11, 223; haplotype DENTEX FILAMENTOSUS Cuv. Replaces SYNAGRIS Gthr., 1859.
- Thalassoma** Swainson, 11, 224; haplotype LABRUS PURPUREUS Rüppell. Stands in place of JULIS Gthr., not of Cuvier.
- Urichthys** Swainson, 11, 224; logotype LABRUS LUNULATUS Rüppell. A synonym of CHEILINUS Lac.
- Crassilabrus** Swainson, 11, 225; haplotype CHEILINUS UNDULATUS Rüppell. A section under CHEILINUS Lac.
- Leptoscarus** Swainson, 11, 226; haplotype SCARUS VAIGIENSIS Q. & G. = SCARUS SPINIDENS Cuv. CALLIODON VAIGIENSIS Cuv. & Val. Replaces CALOTOMUS Gilbert, and CALLIODON Cuv.; not CALLYODON of Gronow nor CALLIODON of Bl. & Schn.
- Hemistoma** Swainson, 11, 226; haplotype SCARUS PEPO Bennett = HEMISTOMA RETICULATA Sw. A synonym of CALLYODON Gronow or SCARUS Forskål.
- Erychthys** Swainson, 11, 226; logotype LABRUS CROICENSIS Bloch. A synonym of CALLYODON Gronow or SCARUS Forskål.
- Petronason** Swainson, 11, 226; logotype CORYPHÆNA PSITTACUS L. as restricted by Bleeker and by Swain. A synonym of CALLYODON or SCARUS.
- Pachynathus** Swainson, 11, 226 (misprint for PACHYGNATHUS); haplotype P. TRIANGULARIS Sw., based on RAHTEE YELLAKAH Russell = BALISTES CAPISTRATUS Shaw. Name preoccupied as PACHYGNATHUS; replaced by SUFFLAMEN Jordan, 1917. The International Commission of Nomenclature has decided that PACHYNATHUS is to be regarded as a misprint, hence identical with PACHYGNATHUS.
- Chlorurus** Swainson, 11, 227; haplotype SCARUS GIBBUS Rüppell. A synonym of CALLYODON or SCARUS.
- Amphiscarus** Swainson, 11, 227; SCARUS FUSCUS Griffith. A synonym of SIGANUS Forskål.
- Sparisoma** Swainson, 11, 227; haplotype SCARUS MULDGAARDI Bloch. Equivalent to SCARUS Gthr., which it replaces; not SCARUS of Forskål, which should stand as CALLYODON Gronow, if Gronow's names are allowed.
- Hemimulus** Swainson, 11, 228, logotype LABRUS GUTTATUS Bloch, as restricted by Bonaparte (*Fauna Italica*, 1841). Swain (1882) chose CHEILIO AURATUS Q. & G. as type regarding HEMIULIS as a synonym of CHEILIO. If HALICIERES Rüppell is regarded as preoccupied by HALICHERUS, HEMIULIS must replace it instead of CHEROJULIS Gill.

- Cynædus** Swainson, II, 229; logotype *LABRUS RUPESTRIS* Bloch, as restricted by Bonaparte, *LABRUS TINCA*, as restricted by Swain. Swainson offers this name as a substitute for *CRENILABRUS* Cuv., of which he wrongly assigns *LUTIANUS VERRES*, a *BODIANUS*, as type. *CYNÆDUS* Sw. (not of Gronow or Scopoli) is a synonym of *CTENOLABRUS* Cuv. & Val.
- Astronotus** Swainson, II, 229; haplotype *LOBOTES OCELLATUS* Spix. Replaces *ACARA* Heckel and *HYGROGONUS* Gthr., 1862.
- Thalliurus** Swainson, II, 230; haplotype *LABRUS BLOCHI* = *LABRUS FULIGINOSUS* Lac. Replaces *HEMIGYMNUS* Gthr., 1864.
- Labristoma** Swainson, II, 230; logotype *PSEUDOCROMIS OLIVACEUS* Rüppell. A needless substitute for *PSEUDOCROMIS* Rüppell, 1835.
- Cichlasoma** Swainson, II, 230; haplotype *LABRUS PUNCTATUS* Bloch. Called *CICHLAURUS* on page 173; equivalent to *HEROS* Heckel (1840) as restricted: apparently *CICHLAURUS* should stand.
- Ichthyacallus** Swainson, II, 232; logotype *LABRUS JULIS* L., as restricted by Bonaparte (1839). Swain has chosen (1882) *LABRUS SEMIPUNCTATUS* as type, a species of *CORIS* Lac. Jordan later took the first species named, *DIMIDIATUS*, as type, a species of *IRIDIO*. *ICHTHYACALLUS* is a synonym of *JULIS* Cuv. & Val. "CHLORICHTHYS and *ICHTHYACALLUS*, confused jumble of species, may well be disposed of as synonyms of *THALASSOMA* and *CORIS*, respectively, although several other genera are represented in each." (Swain.)
- Eupemis** Swainson, II, 232; haplotype *LABRUS FUSIFORMIS* Rüppell. A synonym of *CHEILIO* Lac.
- Chlorichthys** Swainson, II, 232; logotype *LABRUS BIFASCIATUS* Bloch, as restricted by Swain. Bonaparte selects as type *LABRUS PAVO* Hasselquist, a species not mentioned by Swainson. A synonym of *THALASSOMA* Sw.
- Zanclurus** Swainson, II, 239; type *HISTIOPHORUS INDICUS* Cuv. & Val. A synonym of *ISTIOPHORUS* Lac.
- Zyphothyca** Swainson, II, 239; type *GEMPYLUS COLUBER* Cuv. & Val.; for *XIPHO- THECA* Montague. A synonym of *GEMPYLUS* Cuv.
- Leiurus** Swainson, II, 242; logotype *GASTEROSTEUS ACULEATUS* L. A synonym of *GASTEROSTEUS* L.
- Polycanthus** Swainson, II, 242; type *GASTEROSTEUS SPINACHIA* L. A synonym of *SPINACHIA* Fleming, 1825. *POLYCANTHUS* is also preoccupied.
- Chirostoma** Swainson, II, 242; haplotype *ATHERINA HUMBERTIANA* Cuv. & Val.
- Meladerma** Swainson, II, 243; haplotype *M. NIGERRIMA* Sw. = *ELACATE PONDICERRIANA* Cuv. & Val. A synonym of *RACHYCENTRON* Kaup (1826), and of *ELACATE* Cuv. (1831).
- Platylepes** Swainson, II, 247; haplotype *SCOMBER LACTARIUS* Bl. & Schn. A synonym of *LACTARIUS* Cuv. & Val.
- Argyrlepes** Swainson, II, 247; haplotype *ARGYRLEPES INDICA* Sw., based on *MITTA PARAH* of Russell, pl. 156, a species of *LEIOGNATHUS*. A synonym of *LEIOGNATHUS* Lac.
- Alepes** Swainson, II, 248; haplotype *ALEPES MELANOPTERA* Sw., based on *WORI PARAH* Russell, pl. 155, apparently the same as *CARANX NIGRIPINNIS* Day, a species of *HEMICARANX*; apparently replaces *HEMICARANX* Blkr.
- Zonichthys** Swainson, II, 248; type *SCOMBER FASCIATUS* Bloch. A section or subgenus under *SERIOLA*.
- Hamiltonia** Swainson, II, 250; logotype *H. OVATA* Sw. = *CHANDA NAMA* Ham. (fig. 37) as fixed by Swain (1882). *HAMILTONIA* is given as a substitute for

CHANDA Ham., and the fixation of type for the substitute decides that of the original name. CHANDA NAMA is the orthotype of BOGODA Blkr., a genus well defined, AMBASSIS BOGODA being the type species. Swainson's second species, CHANDA LALA Ham., which he spells LATA, belongs to Blecker's genus PSEUDAMBASSIS. This was chosen as type of CHANDA by Fowler, and still later C. RUCONIUS by Jordan, but Swain's choice of type must hold. HAMILTONIA and BOGODA are therefore both synonyms of CHANDA Ham.

Platysomus Swainson, II, 250; logotype VOMER BROWNI Cuv. & Val. A synonym of VOMER; name preoccupied.

Ctenodon Swainson, II, 255; logotype CTENODON RUPPELLI Sw. = CHÆTODON SOHAL Forskål, not CTENODON Bon. nor of Ehrenberg. A synonym of HEPATUS Gronow, TEUTHIS L. and ACANTHURUS Forskål.

Callicanthus Swainson, II, 256; haplotype ASPISURUS ELEGANS Rüppell = HARPURUS LITURATUS Forster. A section or genus near NASO.

Zebrosoma Swainson, II, 256; haplotype ACANTHURUS VELIFER Bloch.

Xiphichthys Swainson, II, 259; haplotype GYMNETRUS RUSSELLI Shaw. A synonym of REGALECUS Brunnich. (Also, II, 46.)

Xiphasia Swainson, II, 259; type "XIPHASIA SETIFER" Sw. Replaces NEMOPHIS Kaup (1858) and XIPHOGADUS Gthr. (1862).

Nemotherus (Rafinesque) Swainson (II, 260); orthotype N. ERYTHROPTERUS Raf. Quoted from Rafinesque's *Specchio delle Scienze*, I, 101, 1815. This is evidently a slip for NEMOCHIRUS Raf. NEMOTHERUS (Risso) Costa is a synonym of TRACHYPTERUS. NEMOCHIRUS seems to be an ally of STYLEPHORUS, as yet unrecognized.

Ornichthys Swainson, II, 262; logotype TRIGLA PUNCTATA Bloch. A synonym of PRIONOTUS Lac.

Pteroleptus Swainson, II, 264; haplotype PTEROLEPTUS LONGICAUDA Sw., (KODIFUNGI Russell). A synonym of PTEROIS Cuv.

Macrochyrus Swainson, II, 264; haplotype SCORPENA MILES Bennett. A synonym of PTEROIS Cuv.

Brachyrus Swainson, II, 264; logotype PTEROIS ZEBRA Cuv. & Val. A synonym of DENDROCHIRUS Sw., not BRACHYCHIRUS Nardo. Name spelled BRACHIRUS when first used, page 71.

Pteropterus Swainson, II, 264; haplotype PTEROIS RADIATUS Cuv. & Val.

Platypterus Swainson, II, 265; logotype TÆNIONOTUS LATOVITTATUS Lac. Name preoccupied; replaced by TETRAROGE Gthr., 1860.

Pterichthys Swainson, II, 265; logotype SCORPENA CARINATA Bl. & Schn. A synonym of APISTUS Cuv., to be used if that name is regarded as preoccupied by APISTES, etc.; not PTERICHTHUS Commerson (1803), nor PTERICHTHYS Ag.

Gymnapistes Swainson, II, 265; logotype APISTUS MARMORATUS Cuv. & Val. Replaces PENTAROGE Gthr.

Synanchia ("Cuvier") Swainson, 268; a variant of SYNANCEJA; (S. FROSA)

Bufichthys Swainson, II, 268; logotype SCORPENA HORRIDA L. which is also type of SYNANCIUM Müller, 1844. Where BUFICHTHYS is first mentioned on page 180 it has the definition still earlier assigned to FROSA and here given to "SYNANCHIA". Gill therefore regards it as a synonym of FROSA Sw., rather than as equivalent of SYNANCIUM Müller.

Trachicephalus Swainson, II, 268; haplotype SYNANCEJA ELONGATA Cuv. & Val. Preoccupied by TRACHYCEPHALUS, 1838, a genus of reptiles. Replaced by POLYCAULUS Gthr.

- Ichthyoscopus** Swainson, II, 269; logotype URANOSCOPUS INERMIS Cuv. & Val. Replaces ANEMA Gthr.
- Enophrys** Swainson, II, 271; haplotype COTTUS CLAVIGER Cuv. & Val.
- Gymnocanthus** Swainson, II, 271; haplotype COTTUS VENTRALIS Cuv. & Val. Replaces PHOBETOR Kröyer, 1844. and ELAPHOCOTTUS Sauvage. This name should read GYMNACANTHUS. There seems to be no classical warrant for Swainson's persistent use of "CANTHUS" (ζάνφος, a donkey) to mean spine (ἀκανθα).
- Canthirhynchus** Swainson, II, 272; haplotype COTTUS MONOPTERYGIUS Bloch. A synonym of ASPIDOPHOROIDES Lac. (1802).
- Hippocephalus** Swainson, II, 272; logotype AGONUS SUPERCILIOSUS Pallas, as restricted by Gill, 1861. A synonym of PERCIS Scopoli (1777), not PERCIS of Klein, nor of Cuvier.
- Chirolophis** Swainson, II, 275; haplotype BLENNIUS YARRELLI Cuv. & Val. = BLENNIUS ASCANII Walbaum. Replaces BLENNIOPS Nilsson (1855) and CARELOPHUS LOPHUS Kröyer.
- Erpichthys** Swainson, II, 275; logotype SALARIAS QUADRIPINNIS Rüppell. A synonym of SALARIAS Cuv.
- Rupiscartes** Swainson, II, 275; haplotype SALARIAS ALTICUS Cuv. & Val. = BLENNIUS TRIDACTYLUS Bl. & Schn. Equivalent to ALTICUS Commerson, but the latter may not be eligible
- Cirripectes** Swainson, II, 275; haplotype SALARIAS VARIOLOSUS Cuv. & Val. A synonym of ALTICUS or RUPISCARTES.
- Blennophis** Swainson, II, 276; logotype CLINUS ANGUILLARIS Cuv. & Val., not BLENNOPHIS Val. (1844), which is OPHIOBLENNIUS Gill.
- Labrisomus** Swainson, II, 277; logotype CLINUS PECTINIFER Cuv. & Val. Often written LABROSOMUS; replaces LEPISOMA Dekay, 1842.
- Ophisomus** Swainson, II, 277; haplotype BLENNIUS GUNNELLUS L. Substitute for GUNNELLUS Cuv. & Val. A synonym of PHOLIS Scopoli (1777) and MURÆNOIDES Lac. (1803).
- Ognichodes** Swainson, II, 278; type GOBIOIDES BROUSSONNETI Lac., a needless substitute for GOBIOIDES Lac. Same as AMBLYOPUS Cuv. & Val.
- Scartelaos** Swainson, II, 279; logotype GOBIUS VIRIDIS Ham. Replaces BOLEOPS Gill, 1863.
- Ruppellia** (misprinted RUPELLIA) Swainson, II, 281; orthotype GOBIUS ECHINOCEPHALUS Rüppell. Preoccupied, replaced by PARAGOBIODON Blkr. (1879).
- Amphichthys** Swainson, II, 282; haplotype BATRACHUS RUBIGENES Sw., from Pernambuco. This fish is said to have but one dorsal fin and no teeth on the palate. It is undoubtedly based on BATRACHUS CRYPTOCENTRUS Cuv. & Val. It therefore replaces MARCGRAVIA Jordan (1886) as also the substitute name, MARCGRAVICHTHYS Ribeiro.
- Salmophasia** Swainson, II, 284; logotype CYPRINUS BACALLA Ham. (S. OBLONGA Sw.). Called SALMOSTOMA on page 184. A synonym of SALMOSTOMA, which replaces SECURICULA Gthr. 1868).
- Chedrus** Swainson, II, 285; haplotype CHEDRUS GRAYI Sw. = CYPRINUS CHEDRA Ham. A synonym of BARILIUS Ham.
- Esomus** Swainson, II, 285; haplotype ESOMUS VITTATUS Sw. = CYPRINUS DAURICA Ham. Replaces NURIA Cuv. & Val. (1842).
- Clupisudis** Swainson, II, 286; haplotype SUDIS NILOTICA Ehrenb. Replaces HETEROTIS Ehrenb. (1843).

- Laurida** Swainson, II, 287; logotype *SALMO FÆTENS* L. A synonym of *SYNODUS* Bl. & Schn.
- Triurus** Swainson, II, 288; haplotype *TRIURUS MICROCEPHALUS* Sw. = *OSMERUS NEHEREUS* Ham. A synonym of *HALIFODON* Le Sueur. Preoccupied by *TRIURUS* Lac. (1800).
- Mormyrhynchus** Swainson, II, 291; haplotype *M. GRONOVII* Sw. = *ANOSTOMUS* Gronow. Same as *ANOSTOMUS* (Gronow), Scopoli (1777) = *SCHIZODON* Ag., 1829).
- Trichosoma** Swainson, II, 292; haplotype *TRICHOSOMA HAMILTONI* Sw.; preoccupied by *TRICHOSOMUS* Sw., 265; and by *TRICHOSOMA* Rudolphi (1819), a genus of worms. Equivalent to *THRISSA* Cuv. (1817), not of Rafinesque (1815); replaced by *THRISSOCLES* Jordan (1917).
- Setipinna** Swainson, II, 292; logotype *CLUPEA PHASA* Ham. (*SETIPINNA MEGALURA* Sw.). Replaces *TELARA* Gthr. (1868).
- Platygaster** Swainson, II, 294; logotype *CLUPEA AFRICANA* Bloch. Preoccupied in bees, 1809. A synonym of *ILISHA* Gray, 1846.
- Cypselurus** Swainson, II, 296 (misprinted *CYPSILURUS*); logotype *EXOCETUS NUTTALLI* Le Sueur = *EXOCETUS FURCATUS* Mitchell. Based on a young example, with barbel at the chin. In view of Swainson's general carelessness and of the irregularity of his proof-reading, the form *CYPSILURUS* has been officially deemed a misprint by the International Communion of Nomenclature. Same as *PTENICHTHYS* Müller, 1843.
- Ramphistoma** (Rafinesque) Swainson, 296 orthotype *R. VULGARIS* Sw., same as *BELONE* Cuv.
- Leptodes** Swainson, II, 298; logotype *CHAULIODUS SLOANI* Bl. & Schn. A synonym of *CHAULIODUS* Bl. & Schn., (1801).
- Tilesia** Swainson, II, 300; orthotype *GADUS GRACILIS* Tilesius; synonym of *ELEGINUS* Fischer.
- Cephus** Swainson, II, 300; haplotype *GADUS MACROCEPHALUS* Tilesius. A synonym of *GADUS* L.
- Lepidion** Swainson, II, 300; haplotype *GADUS LEPIDION* Risso = *LEPIDION RUBESCENS* Sw., regarded as preoccupied by *LEPIDEA* (1817), a genus of worms; replaced by *HALOPORPHYRUS* Gthr. (1862).
- Psetta** (Aristotle) Swainson, II 302; haplotype *PLEURONECTES MAXIMUS* L. Sufficiently distinct from *PSETTUS* Cuv.
- Platophrys** Swainson, II, 302; haplotype *PLEURONECTES OCELLATUS* Spix & Ag. Replaces *RHOMBOIDICHTHYS* Blkr. (1856).
- Brachirus** Swainson, II, 303; logotype *PLEURONECTES ORIENTALIS* Bl. & Schn. Preoccupied by *BRACHIRUS* and *BRACHYRUS* Sw.; replaced by *EURYGLOSSA* Kaup (1858).
- Plagusia** (Browne) Swainson, 302; orthotype *P. BILINEATA* Bloch; name preoccupied, same as *PARAPLAGUSIA* Blkr.
- Sturisoma** Swainson, II, 304; haplotype *LORICARIA ROSTRATA* Spix.
- Hoplisma** Swainson, II, 304; haplotype *CATAPHRACTUS PUNCTATUS* Bloch = *CORYDORAS GEOFFROYI* Lac. A synonym of *CORYDORAS* Lac., 1803.
- Silonia** Swainson, II, 305; logotype *PIMELODUS SILONDIA* Ham. = *SILONIA LURIDA* Sw. Replaces *SILUNDIA* Cuv. & Val. (1830).
- Felichthys** Swainson, II, 305; logotype, as restricted by Swainson and Bleeker. *F. FILAMENTOSUS* Sw. = *ARIUS BAHIENSIS* Castelnau. Name a substitute for *BREVICEPS* Sw., preoccupied; a synonym of *BAGRE* (Cuv.) Oken (1817), as restricted through tautonymy.

- Cyclopium** Swainson, II, 305; haplotype *PIMELODUS CYCLOPUM* Humboldt = *CYCLOPIUM HUMBOLDTI* Sw. Replaces *STYGOGENES* Gthr. (1864).
- Clupisoma** Swainson, II, 306; haplotype *SILURUS GARUA* Hain., *CLUPISOMA ARGENTATA* Sw. Replaces *SCHILBEICHTHYS* Blkr., 1858.
- Pachypterus** Swainson, II, 306; logotype *SILURUS ATHERINOIDES* Bloch. Preoccupied in Coleoptera (1833); replaced by *PSEUDEUTROPIUS* Blkr. (1863).
- Pusichthys** Swainson, II, 307; haplotype *SCHILBE URANOSCOPUS* Rüppell. A synonym of *SCHILBE* Cuv. (1817).
- Cotylephorus** Swainson, II, 308; haplotype *PLATYSTACUS COTYLEPHORUS* Bloch = *C. BLOCHI* Sw. A synonym of *PLATYSTACUS* Bloch, and of *ASPEDO* (Gronow) (Scopoli).
- Pteronotus** Swainson, II, 309; haplotype *HETEROBRANCHUS SENTENTACULATUS* Ag. Preoccupied in mollusks; gives way to *RHAMDIA* Blkr. (1858).
- Diacantha** Swainson, II, 310; logotype *DIACANTHA ZEBRA* Sw. = *COBITIS GETO* Ham. (pl. 11). A synonym of *BOTIA* Gray, 1831.
- Canthophrys** Swainson, II, 310; logotype *CANTHOPHRY* *ALBESCENS* Sw., based on *COBITIS* No. 3, Hamilton. Said by Swain to be a species of *BOTIA* Gray (1831).
- Acoura** Swainson, II, 310; logotype *COBITIS SAVONA* Ham. (*ACOURA OBSCURA* Sw.). A synonym of *NEMACHEILUS* Van Hasselt; spelled *ACOURUS* on an earlier page.
- Somileptes** Swainson II, 311; logotype *S. BISPINOSA* Sw. = *COBITIS GONGOTA* Ham. A synonym of *COBITIS* L., 1758.
- Platysqualus** Swainson, II, 311; logotype *SQUALUS TIBURO* Sw. (not of L.), based on a figure by Russell, representing *SPHYRNA TUDES* Cuv. A synonym of *SPHYRNA* Raf.
- Ptercephala** Swainson, II, 321; haplotype *RAJA GIORNA* Lac. A synonym of *MORULA* Raf.
- Tetrosomus** Swainson, II, 323; haplotype *OSTRACION TURRITUS* Forskål. A section of *OSTRACION* L.
- Rhinesomus** Swainson, II, 324; logotype *OSTRACION TRIQUETER* Bloch. A synonym of *LACTOPHRY* Sw.
- Lactophrys** Swainson, II, 324; logotype *OSTRACION TRIGONUM* L.
- Platycanthus** Swainson, II, 324; haplotype *OSTRACION AURITUS* Shaw. A synonym of *ARACANA* Gray.
- Rhinecanthus** Swainson, II, 325; logotype *BALISTES ORNATISSIMUS* Lesson = *BALISTES ACULEATUS* L. A synonym of *BALISTAPUS* Tilesius.
- Zenodon** (Rüppell) Swainson, II, 194, 325; orthotype *BALISTES NIGER* Lac. This name *ZENODON*, being ascribed to Rüppell, is probably a careless misprint of *XENODON* Rüppell. Preoccupied in reptiles by *XENODON* Boie, 1827. The name is spelled *ZENODON* on page 194 also. *ZENODON* is, however, accepted by Fowler (1904). If adopted, it replaces *ODONUS* Gistel (1848), *ERYTHRODON* Rüppell (1852) and *PYRODON* Kaup (1855)—all substitutes offered for *XENODON*.
- Chalisoma** Swainson, II, 325; logotype *BALISTES PULCHERRIMUS* Lesson = *BALISTES VETULA* L. A synonym of *BALISTES* L.
- Canthidermis** Swainson, II, 325; logotype *BALISTES ANGULOSUS* Q. & G.
- Melichthys** Swainson, II, 325; logotype *BALISTES RINGENS* Osbeck (not of L.). Name changed to *MELANICHTHYS* by Gthr. (1870).
- Capriscus** (Willughby) Swainson, II, 326; logotype *BALISTES ERYTHROPTERON* Lesson; a synonym of *BALISTAPUS* Tilesius.

- Leiurus** Swainson, II, 326; logotype *LEIURUS MACROPHTHALMUS* Sw., based on *LAMA VELLAKAH* Russell, pl. 22 — *BALISTES STELLARIS* Bl. & Schn. Name preoccupied by *LEIURUS* Sw. (p. 242); replaced by *ABALISTES* Jordan & Seale (1911).
- Chætodermis** Swainson, II, 327; logotype *MONOCANTHUS SPINOSISSIMUS* Q. & G.
- Psilocephalus** Swainson, II, 327; haplotype *BALISTES BARBATUS* Gray. Substitute for *ANACANTHUS* Gray (1831), which is preoccupied by Ehrenberg, 1829.
- Cantherines** Swainson, II, 327; haplotype *MONACANTHUS NASUTUS* Q. & G. Replaces *LIOMONACANTHUS* Blkr. (1866).
- Cirrhisomus** Swainson, II, 328; haplotype *TETRAODON SPENGLERI* Bloch. Same as *CHEILICHTHYS* Müller, a synonym of *SPHEROIDES* Dum.
- Leisomus** Swainson, II, 328; logotype *L. MARMORATUS* Sw. = *TETRAODON CUTCUTIA* Ham., as restricted by Bleeker, 1865. The genus is called *LEIODON* on page 194, without mention of type. *LEISOMUS* is preoccupied. *LEIODON* replaces *MONOTRETA* Bibron. Swain restricts *LEISOMUS* and therefore *LEIODON*, to the first species named, *L. LEVISSIMUS* Sw., a species of *SPHEROIDES* (*TETRAODON SPENGLERI* Bloch).
- Lagocephalus** Swainson, II, 328; logotype *TETRAODON STELLATUS* Donovan. Replaces *GASTROPHYSUS* Müller.
- Trichoderma** Swainson, II, 328; logotype *BALISTES SCAPUS* Lac. A synonym of *AMANSSES* Gray (1833).
- Psilonotus** Swainson, II, 328; logotype *TETRAODON ROSTRATUS* Bloch. Called *CANTHIGASTER* on page 194, and therefore a synonym of the latter.
- Molacanthus** Swainson, II, 329; logotype *MOLACANTHUS PALLASI* Sw. = *DIODON MOLA* Pallas. Young of *MOLA* Kölr. = *MOLA* Cuv.
- Astrocanthus** Swainson, II, 331; haplotype *LOPHIUS STELLATUS* Vahl. A synonym of *HALIEUTEA* Cuv. & Val., 1837.
- Phyllopteryx** Swainson, II, 332; haplotype *SYNGNATHUS FOLIATUS* Shaw.
- Acus** (Willughby) Swainson, II, 333; logotype *SYNGNATHUS JEQUOREUS* "Yarrell". A synonym of *NEROPHIS* Raf.
- Solegnathus** Swainson, II, 333; haplotype *SYNGNATHUS HARDWICKI* Gray. Spelled *SOLENOGNATHUS* by Günther.
- Ophisoma** Swainson, II, 334; logotype *O. ACUTA* Sw., as restricted by Bleeker (1864). Swain, in 1882, chose *O. OBTUSA* Sw. as type. The latter species is a CONGER, the former belongs to *CONGERMURENA* Kaup, as restricted. The name is preoccupied by *OPHISOMUS* Sw., page 277. It is called *ARIOSOMA* on page 194. *ARIOSOMA* thus replaces *CONGERMURENA* Kaup, and also *CONGRELLUS* Ogilby, all based on the same type, earlier described as *MURENA BALEARICA* De la Roche.
- Pterurus** Swainson, II, 334; logotype *PTERURUS MACULATUS* Sw. = *MURENA RAIBOURA* Ham. A synonym of *RAITABOURA* Gray (1831) or *MORINGUA* Gray (1831).
- Leptognathus** Swainson, I, 221, and II, 334; haplotype *LEPTOGNATHUS OXYRHYNCHUS* Sw. = *MURENA SERPENS* L. A synonym of *OPHISURUS* Lac., as restricted by Risso.
- Pachyurus** Swainson, II, 335; haplotype *MORINGUA LINEARIS* Gray; preoccupied by *PACHYURUS* Ag. (1829). A synonym of *PSUDOMORINGUA* Blkr. (1864).
- Ophichthys** Swainson, II, 336; haplotype *USURANCHAPERTURA CUTCHIA* Ham. Name preoccupied by *OPHICHTHYS* Ahl (1789). A synonym of *AMPHIPRIONUS* Muller (1839).

Rupisuga Swainson, II, 339; haplotype *R. NICENSIS* Sw. = *LEPODOGASTER BALBIS* Risso. A synonym of *GOUANIA* Nardo (1833).

1840

252. BENNETT (1840). *Narrative of a Whaling Voyage Around the Globe.*

F. D. BENNETT.

Elagatis F. D. Bennett, II, 283; orthotype *SERIOLA BIPINNULATA* Q. & G.

253. BONAPARTE (1840). *Iconografia della fauna italiana.* Fascicles 68 to 138, part 27. According to Troschel, fascicle 91 dates from 1837, 92 to 96 from 1838, 103 from 1839, and fascicle 138 dates from 1840.

CARLO LUCIANO BONAPARTE.

Stomocatus Bonaparte, 129*; logotype (not named) *CYPRINUS CATOSTOMUS* Forster. A synonym of *CATOSTOMUS* Le Sueur; species with the dorsal fin short, "especie . . . che han breve la pinna dorsale".

Ichthyocoris Bonaparte, fasc. 134; orthotype *BLENNIUS VARUS* Risso. A synonym of *BLENNIUS* L.

Ichthyococcus Bonaparte, fasc. 138; orthotype *I. OVATUS* Bon. Name later altered by Günther to *COCCIA* on account of its crude form (1840).

Lampanyctus Bonaparte, fasc. 138; orthotype *L. BONAPARTEI* Bon.

Chlorophthalmus Bonaparte, fasc. 138; orthotype *C. AGASSIZI* Bon.

254. CUVIER & VALENCIENNES (1840) *Histoire naturelle des poissons.* XV.

ACHILLE VALENCIENNES.

Galeichthys Cuvier & Valenciennes, XV, 28; logotype *GALEICHTHYS FELICEPS* Cuv. & Val., as restricted by Bleeker.

Pangasius Cuvier & Valenciennes, XV, 45; tautotype *PIMELODUS PANGASIVS* Ham.

Silundia Cuvier & Valenciennes, XV, 49; tautotype *PIMELODUS SILONDIA* Ham. A synonym of *SILONIA* Sw.

Arius Cuvier & Valenciennes, XV, 53; tautotype *PIMELODUS ARIUS* Ham. As so understood, a synonym of *TACHYSURUS* Lac., if the latter is correctly identified. Bleeker takes the first species named, *ARIUS STRICTICASSIS* Cuv. & Val., as type, thus replacing *NOTARIUS* Gill.

Trachelyopterus Cuvier & Valenciennes, XV, 220; orthotype *T. CORIACEUS* Cuv. & Val.

Arges Cuvier & Valenciennes, XV, 333; logotype *ARGES SABALO* Cuv. & Val.

Brontes Cuvier & Valenciennes, XV, 341; haplotype *BRONTES PRENADILLA* Cuv. & Val. Name two or three times preoccupied; replaced by *STREPHON* Gistel (1848).

Saccobranchus Cuvier & Valenciennes, XV, 399 haplotype *SILURUS SINGIO* Ham. = *HETEROPNEUSTES* Müller, 1839.

Chaca Cuvier & Valenciennes, XV, 444; haplotype *PLATYSTACUS CHACA* Ham.

255. EICHWALD (1840). (*Fossil Fishes.*) Bull. Acad. Sci. St. Petersburg.

CARL EDUARD VON EICHWALD.

Astrolepis Eichwald, VIII, 79; orthotype *A. ORNATUS* Eichw. (fossil). Later spelled *ASTEROLEPIS* by Eichwald and by most writers.

Bothriolepis Eichwald, VII, 79; orthotype *B. PRISCA* Eichw. (fossil).

256. HECKEL (1840). *Johann Natterer's neue Flussfische Brasiliens nach den Beobachtungen und Mittheilungen des Entdeckers beschrieben*. Abth. 1, Die Labroiden. Ann. Wien. Mus., 11.

JOHANN JAKOB HECKEL.

- Uaru** Heckel, 11, 330; orthotype *U. AMPHACANTHOIDES* Heckel.
Symphysodon Heckel, 11, 332; orthotype *S. DISCUS* Heckel.
Pterophyllum Heckel, 11, 334; orthotype *PLATAX SCALARIS* CUV. & VAL.
Acara Heckel, 11, 338; logotype *A. CRASSISPINIS* Heckel, as restricted by Gill (1858). A synonym of *ASTRONOTUS* SW. (*HYGROGONUS* Gthr.).
Heros Heckel, 11, 362; logotype *H. SEVERUS* Heckel, as restricted by J. & G., 1883. A synonym of *CICHLAURUS* or *CICHLASOMA* SW.
Geophagus Heckel, 11, 383; logotype *G. MEGASEMA* Heckel.
Chaetobranchus Heckel, 11, 401; logotype *C. FLAVESCENS* Heckel.
Crenicichla Heckel, 11, 416; logotype *C. VITTATA* Heckel.
Batrachops Heckel, 11, 432; logotype *B. RETICULATUS* Heckel.
Monocirrhus Heckel 11, 439; orthotype *M. POLYACANTHUS* Heckel.

257. LOWE (1840). *Certain New Species of Madeiran Fishes*. Proc. Zool. Soc. London, 36-39.

RICHARD THOMAS LOWE.

- Cheilopogon** Lowe, VII, 38; orthotype *CYSELURUS PULCHELLUS* Lowe. A manuscript name, withdrawn because of the earlier name *CYSELURUS* SW. Applied to young flying fish with barbels; equivalent also to *PTENICHTHYS* MÜLLER.

258. MÜNSTER (1840). *Ueber einige Placoiden im Kupferschiefer zu Richelsdorf; Beiträge zur Petrefactenkunde*.

GEORG MÜNSTER.

- Dictea** Münster, III, 124; orthotype *D. STRIATA* Münster (fossil). A synonym of *JANASSA* Münster.

- 259-261 MÜNSTER (1840). (*Braun, Petrefakten von Bayreuth*.)

GEORG MÜNSTER.

- Saurorhynchus** (Münster) Braun, 73 (not defined); orthotype *SAURICHTHYS TENUIROSTRIS* (Münster) (fossil). Name apparently eligible, as being applied to a species already described.

262. NORDMANN (1840). *Observations sur la faune pontique; im Demidoff, voyage dans la Russie meridionale et la Crimée*. III

ALEXANDER VON NORDMANN.

- Percarina** Nordmann, 357; orthotype *P. DEMIDOFFI* Nordmann.

263. OWEN (1840). *Odontography; or a Treatise on the Comparative Anatomy of the Teeth*.

RICHARD OWEN

- Petalodus** Owen, 61; orthotype *P. HASTINGSI* Owen (fossil).
Rhizodus Owen, 75; orthotype *MEGALICHTHYS HIBBERTI* AG. (fossil). A synonym of *MEGALICHTHYS* AG.

264. RANZANI (1840). *De novis speciebus piscium, dissertationes quatuor*. Novi Comment. Acad. Sci. Inst. Bonon., IV

CAMILLO RANZANI

- Syacium** Ranzani, 20, orthotype *S. MICROURUM* Ranzani. Replaces *HEMIRHOMBUS* BLKR (1862)

Diapterus Ranzani, IV, 340; orthotype *D. auratus* Ranzani. Replaces *Gerres* J. & E.; not of Cuvier as properly restricted.

265. RICHARDSON (1840). *On Some New Species of Fishes from Australia*. Proc. Zool. Soc. London, VIII.

JOHN RICHARDSON.

Oplegnathus Richardson, 27; orthotype *O. conwayi* Rich. Name later corrected by Richardson to *Hoplegnathus conwayi*; altered by Günther to *Hoplognathus*, in which form it is preoccupied. If necessary, may be replaced by *Scarodon* T. & S.

266. THOMPSON (1840). *On a New Genus of Fishes from India (Bregmaceros maclellandi* Cantor, MS.). Ann. Mag. Nat. Hist., IV.

WILLIAM THOMPSON.

Bregmaceros (Cantor) Thompson, IV, 184; orthotype *B. maclellandi* (Cantor) Thompson.

1841

267. AGASSIZ (1841). *On the Fossil Fishes Found by Mr. Gardner in the Province of Ceará, in the North of Brazil*. Edinb. New Philos. Journ., XXX.

LOUIS AGASSIZ.

Cladocycclus Agassiz, XXX, 83; orthotype *C. gardneri* Ag. (fossil).

Rhacolepis Agassiz, XXX, 83; logotype *R. buccalis* Ag. (fossil). (Misprinted *Phacolepis*.)

Calamopleurus Agassiz, XXX, 84; orthotype *C. cylindricus* Ag. (fossil). This genus belongs to the *Elopidæ*, near to *Elops*, *Rhacolepis* and *Notelops*. See Jordan & Branner, *Smithsonian Misc. Coll.*, 1793-1908 ("Cretaceous Fishes of Ceará, Brazil").

268. BONAPARTE (1841). *Iconografia della fauna italiana*. 3d part (fascicles 156-160 dating probably 1841).

CARLO LUCIANO BONAPARTE.

Pristiurus Bonaparte (1841); orthotype *Galeus melastomus* Raf. (Written *PRISTIURUS* in *Saggio*, p. 121, 1831, and in *Fauna Italica*. Called *PRISTIDURUS* in *Mem. Soc. Sci. Neufchâtel*, II, p. 11, 1839). *PRISTIURUS* is the form in general use, but *PRISTIDURUS* may have priority of definition.

Syraxis (Jourdan) Bonaparte, fasc. 160; orthotype *Narcine (Syraxis) indica* Henle. Manuscript name based on specimens in the Museum of Lyons "ben ordinato di celebri Prof. Jourdan," identified by Bonaparte as *NARCINE INDICA* Henle. A synonym of *NARCINE* Henle.

Agassiz quotes also a genus "*POWERIA* Bonaparte". This is certainly an error. Troschel writes, "*GON. POWERIE*" for *GONOSTOMA*. This was doubtless mistaken for "*Gen.*"

269. EICHWALD (1841). *Fauna Caspio-Caucasica non nullis observationibus novis illustrata*. St. Petersburg.

CARL EDUARD VON EICHWALD.

Sypterus Eichwald; orthotype (*PERCA LOPHAR* Forskål). A synonym of *POMATOMUS* Lac. (not verified).

270. FLEMING (1841). *Description of a New Species of Skate (Hicoptera abredonensis) New to the British Fauna*. Edinb. New Phil. Journ., XXXI, 1841.

JOHN FLEMING (1785-1857).

Hieroptera Fleming, XXXI, 236; orthotype *H. ARREDONENSIS* Fleming (a monstrous form of *RAJA CLAVATA* *vide* Gill). A synonym of *RAJA* L.

271. HECKEL (1841). *Ueber eine neue Gattung (Aulopyge hugeli) von Süßwasserfische in Europa; aus einem Schreiben an den Akademiker Dr. Brandt.* Bull. Sci. Acad. St. Petersburg, VIII.

JOHANN JAKOB HECKEL.

Aulopyge (Brandt) Heckel, I, 1021; orthotype *A. HUGELI* Heckel (also in *Russischer's Reisen*, p. 1021).

272. HOGG (1841). (*Protomelus and Amphibichthys*.) Ann. Mag. Nat. Hist., VII.
JOHN HOGG.

Protomelus Hogg, VII, 359; orthotype *LEPIDOSIREN ANNECTENS* Owen. A synonym of *PROTOPTERUS* Owen.

Amphibichthys Hogg, 362; orthotype *LEPIDOSIREN PARADOXA* Fitzinger. A synonym of *LEPIDOSIREN* Fitzinger.

273. LOWE (1841). *Synopsis of the Fishes of Madeira*, etc. Trans. Zool. Soc. London, II.

RICHARD THOMAS LOWE.

Aplurus Lowe, II, 180; orthotype *A. SIMPLEX* Lowe. A synonym of *RUVEITUS* Cocco.

Prometheus Lowe, II, 181; orthotype *GEMPYLUS PROMETHEUS* Cuv. & Val. Name preoccupied; replaced by *PROMETHICHTHYS* Gill (1893).

274. MILLER (1841). *The Old Red Sandstone; or New Walks in an Old Field.* Edinburgh.

HUGH MILLER (1802-1856).

Pterichthys (Agassiz) Miller, XXII; orthotype *P. MILLERI* Ag. (fossil). Name preoccupied—Swainson (1839); replaced by *PTERICHTHYODES* Blkr. (1839 and by *MILLERICHTHYS* S. A. Miller, 1892.

275. MÜNSTER (1841). (*Asterodon*) Beiträge zur Petrefaktenkunde, IV.
GEORG MÜNSTER.

Asterodon Münster, IV, 140; orthotype *A. BRONNI* Münster (fossil). Probably identical with *COLOBODUS* Ag. and of earlier date.

276. NARDO (1841). *Proposizione per la formazione di un nuovo generi di pesci, intitolato Brachyochirus.* Ann. Sci. Reale Lombardo-Veneto, Padova.

GIOVANNI DOMENICO NARDO

Brachyochirus Nardo I; orthotype *GOBIOUS APIYA* Risso — *GOBIOUS MINUTUS* L. A section of *GOBIOUS*; same as *POMATOSCHISTUS* Gill (1862). Perhaps to be regarded as preoccupied by *BRACHYRUS* and *BRACHIRUS* of Swainson (1839) of similar etymology

277. OWEN (1841). *On the Structure of Fossil Teeth from the Central of Carboniferous Division of the Old Red Sandstone, Indicative of a New Genus of Fishes, or Fish-like Butrochia*, etc. Micr. Journ., I

RICHARD OWEN

Dendrodus Owen, I, 4; orthotype *D. BIFIDICATUS* Owen (fossil)

Sphyrænodus (Agassiz) Owen, 129; orthotype *S. PRISCUS* Ag. (fossil). Names only, validated by Agassiz in 1844

278. SYKES (1840). *The Fishes of Dukhun*. Ann. Mag. Nat. Hist., IV.
WILLIAM HENRY SYKES.

Rohtee Sykes, II, 364; orthotype R. VIGORSI Sykes. Replaces *OSTEOBRAMA* Heckel.

1842

279. AGASSIZ (1942). (*Diplacanthus*.) In Duff's *Geology of Moray*.

LOUIS AGASSIZ.

Diplacanthus (Agassiz) Duff, 71; orthotype *D. CRASSISSIMUS* Duff = *D. STRIATUS* Ag. (fossil); more fully defined in *Poissons fossiles Vieux Grès Rouge*. Name misspelled *DIPLOCANTHUS* by Duff.

280. CUVIER & VALENCIENNES (1842). *Histoire naturelle des poissons*. XVI.
ACHILLE VALENCIENNES.

Dangila Cuvier & Valenciennes, XVI, 229; logotype *DANGILA CUVIERI* Val.

Nuria Cuvier & Valenciennes, XVI, 238; logotype *NURIA THERMOICOS* Cuv. & Val.
A synonym of *ESOMUS* Sw.

Rohita Cuvier & Valenciennes, XVI, 242; tautotype *CYPRINUS ROHITA* Ham., *ROHITA RUCHANANI* Val. Apparently identical with *LABEO* Cuv.

Capoëta Cuvier & Valenciennes, XVI, 278; tautotype *CAPOËTA FUNDULUS* Val. = *CYPRINUS CAPOËTA* GÜLDENSTADT (logotype *C. AMPHIBIA* Cuv. & Val.) as restricted by Bleeker.

281. DEKAY (1842). *Zoology of New York; or, The New York Fauna. Comprising Detailed Descriptions of All the Animals Hitherto Observed Within the State Borders*, etc. Natural History of New York State Geological Survey, Albany.

JAMES ELLSWORTH DEKAY (1792-1851).

Lepisoma Dekay, 11; orthotype *L. CIRRHOSUM* Dekay = *CLINUS PECTINIFER* Cuv. & Val. Regarded as preoccupied in beetles by *LEPISOMUS* Kirby. A synonym of *LABROSOMUS* Sw.

Pileoma Dekay, 16; haplotype *PILEOMA SEMIFASCIATA* Dekay = *ETHEOSTOMA CAPRODES* Raf. A synonym of *PERCINA* Haldeman, of earlier date in the same year.

Boleosoma Dekay, 20; haplotype *B. TESSELLATUM* Dekay = *ETHEOSTOMA OLMSTEDI* Storer.

Uranidea Dekay, 61; haplotype *URANIDEA QUIESCENS* Dekay.

Apeltes Dekay, 68; orthotype *GASTEROSTEUS QUADRACUS* Mitchill.

Argyreia Dekay, 141; haplotype *ATHERINA NOTATA* Mitchill. Name preoccupied; a synonym of *MENIDIA* Bon.

Amblyopsis Dekay, 187; haplotype *AMBLYOPSIS SPELÆUS* Dekay.

Stilbe Dekay, 204; haplotype *CYPRINUS CRYSOLEUCAS* Mitchill. A synonym of *NOTEMIGONUS* Raf.

Baione Dekay, 244; haplotype *B. FONTINALIS* Dekay (the young of *SALMO FONTINALIS* Mitchill). A synonym of *SALVELINUS* Rich., 1836.

Acanthosoma Dekay, 350; orthotype *A. CARINATUM* Dekay. Same as *MOLACANTHUS* Sw., a larval form of *MOLA* Cuv.

Pastinaca (Belon) Dekay, 373; orthotype *RAJA PASTINACA* L. Name used for the same genus by several authors. A synonym of *DASYATIS* Raf.

282. GRAY (1842). *Description of Two Fresh-water Fish from New Zealand*. (In Dieffenbach, Ernst: *Travels in New Zealand*. II.)

JOHN EDWARD GRAY.

Ptycholepis Gray, II, 218; orthotype *MUGIL. SALMONEUS* Forster. A synonym of *CHANOS* Lac.

283. HALDEMAN (1842). *Description of Two New Species of the Genus Perca, from the Susquehannah River*. Journ. Acad. Nat. Hist.

SAMUEL STEHMAN HALDEMAN (1712-1890).

Percina Haldeman, VIII, 330; logotype *PERCA NEBULOSA* Haldeman = *ETHEOSTOMA CAPRODES* Raf. Same as *PILEOMA* Dekay and a little earlier in date.

284. HECKEL (1842). *Ichthyologie (von Syrien)*. In Russeger (Joseph von): *Reisen in Europa, Asien und Africa*, etc. Part I.

JOHANN JAKOB HECKEL.

Gibelion Heckel, I, 1014; orthotype *CYPRINUS CATLA* Ham. Replaces *CATLA* Cuv. & Val.

Cyprinion Heckel, I, 1015; logotype *C. MACROSTOMUS* Heckel.

Dillonia Heckel, I, 1020; orthotype *CHONDROSTOMA DILLONI* Cuv. & Val.

Scaphiodon Heckel, I, 1020; logotype *S. TINCA* Heckel.

Gymnostomus Heckel, I, 1030; logotype *G. ARIZA* Heckel, as restricted by Bleeker (1860); logotype *CAPOËTA SYRIACA* Cuv. & Val., as limited by Günther (1868). Apparently replaces *TYLOGNATHUS* Gthr., but not of Heckel.

Chondrochilus Heckel, I, 1031; orthotype *C. NASICUS*. A synonym of *CHONDROSTOMA* Ag.

Chondrorhynchus Heckel, I, 1031; logotype *CH. SOETTA* Heckel. A synonym of *CHONDROSTOMA* Ag.

Ballerus Heckel, I, 1032; tautotype *CYPRINUS BALLERUS* L.

Acanthobrama Heckel, I, 1033; logotype *A. MARMID* Heckel, as restricted by Bleeker.

Osteobrama Heckel, I, 1033; logotype *CYPRINUS COTIO* Ham. A synonym of *ROHTEE* Sykes (1841).

Pachystomus Heckel, I, 1038; orthotype *P. SCHACRA* Heckel. Name preoccupied. Same as *SHACRA* Blkr.

Argyreus Heckel, I, 1040; haplotype *CYPRINUS ATRONASUS* Mitchill. Name preoccupied. Equivalent to *RHINICHTHYS* Ag., 1850.

Leucosomus Heckel, I, 1042; haplotype *L. CHRYSOLEUCUS* Heckel, not of Mitchill = *CYPRINUS CORPORALIS* Mitchill. Considered as preoccupied by *LEUCOSOMA* Gray; replaced by *CHEILONEMUS* Baird (1855).

Glossodon Heckel, I, 1003; haplotype *CYPRINUS SMITHI* Rich.; identical with the type of *Glossodon* Raf. (1818). A synonym of *Hiodon* Le Sueur (1818).

Luciobarbus Heckel, I, 1054; orthotype *L. ESOCINUS* Heckel.

Pseudophoxinus Heckel, I, 1063; orthotype *PHOXINELLUS ZIREGI* Heckel.

Discognathus Heckel, I, 1071; logotype *D. VARIABILIS* Heckel, as restricted by Bleeker, 1863. A synonym of *GARRA* Ham., as restricted by Bleeker.

Tylognathus Heckel, I, 1073; logotype *T. DIPLOSTOMUS* Heckel, as restricted by Bleeker, 1863, not *TYLOGNATHUS*, as restricted by Günther, 1868.

285. JENYNS (1842). *The Zoology of the Voyage of H.M.S. "Beagle", During the Years 1832-1836; edited by Charles Darwin: Fishes*. London.

LEONARD JENYNS (1800-1893) (afterwards LEONARD JENYNS PLUMFIELD)

Arripis Jenyns, 14, orthotype *CENTROPOMUS GEORGIANUS* Cuv. & Val.

Prionodes Jenyns, 46; orthotype *P. FASCIATUS* Jenyns

Stegastes Jenyns, 63, orthotype *S. IMBRICATUS* Jenyns = *CHEILODON LURIDUS* Broussonet. This is probably identical with *MICROSPATHODON* Gthr., 1862, and of earlier date.

Acanthoclinus Jenyns, 92; orthotype *A. FUSCUS* Jenyns.

Mesites Jenyns, 118; orthotype *M. ATTENUATUS* Jenyns. A synonym of *GALAXIAS* Cuv.

Aplochiton Jenyns, 130; orthotype *A. ZEBRA* Jenyns. Spelled *HAPLOCHITON* by Günther.

Iluocætes Jenyns, 166; orthotype *I. FIMBRIATUS* Jenyns.

Phucocætes Jenyns, 168; orthotype *P. LATITANS* Jenyns.

286. McCLELLAND (1842). *Remarks on a New Genus of Thoracic Percoid Fishes, Cestreus*. Journ. Nat. Hist. Calcutta, IV.

JOHN McCLELLAND.

Cestreus McClelland, II, 150, 151; orthotype *C. MINIMUS* McCl. = *ATHERINA DANIVUS* Ham. An ally of *ELEOTRIS*, near *HYPSELEOTRIS*, *CARASSOPS*, etc., small species with the habit of *GAMBUSIA*. D. V-9:A. 12. vertebræ 26, outer teeth minute, hooked (not "forked," as stated by Day).

287. McCLELLAND (1842). *On the Fresh-water Fishes Collected by William Griffin in His Travels, from 1835 to 1842*. Journ. Nat. Hist. Calcutta, II, 560-589.

JOHN McCLELLAND.

Racoma McClelland, II, 576; logotype *R. LABIATA* McCl., according to Bleeker.

Glyptosternon McClelland, II, 584; logotype *G. RETICULATUS* McCl. Spelled *GLYP-TOSTERNUM* by Günther.

Olyra McClelland, II, 588; logotype *O. LONGICAUDATA* McCl.

288. MÜNSTER (1842). *Beschreibungen einiger neuer Fische aus den lithographischen Schieferen von Bayern*. Beiträge zur Petrefaktenkunde.

GEORG MÜNSTER.

Dorypterus (Germar) Münster, V, 35; orthotype *D. HOFFMANNI* Germar (fossil).

Globulodus Münster, V, 47; orthotype *T. ELEGANS* Münster (fossil).

Thaumas Münster, V, 62; orthotype *T. ALIFER* Münster (fossil). A fossil homologue of *SQUATINA* Dum.

Capitodus Münster, V, 68; orthotype *C. SUBTRUNCATUS* Münster (fossil).

Soricidens Münster, V, 68; orthotype *S. HAUERI* Münster (fossil).

289. MÜNSTER (1842) *Neues Jahrb. für Mineralogie*, etc.

GEORG MÜNSTER.

Æthalion Münster, 41; logotype *A. INFLATUS* Münster (fossil).

Libys Münster, 45; orthotype *L. POLYPTERUS* Münster (fossil).

290. OWEN (1842). (*Raphiosaurus*.) Trans. Geol. Soc., London.

RICHARD OWEN.

Raphiosaurus Owen, VI, 413; orthotype *R. SUBULIDENS* Owen (fossil).

291. RICHARDSON (1842). *Catalogue of Fish Found at King George's Sound*. (In Eyre, E. J.: *Journals of Expeditions of Discovery into Central Australia*. I.)

JOHN RICHARDSON.

Centrogenys Richardson, IX, 120; orthotype *SCORPÆNA VAIGIENSIS* Blkr.

292. SCHOMBURGK (1842). *The Natural History of the Fishes of (British) Guiana*. Edinburgh.

ROBERT HERMANN SCHOMBURGK.

Ellipesurus Schomburgk, II, 184; orthotype *E. SPINICAUDA* Schomburgk (misprinted *ELIPESURUS*).

293. TEMMINCK & SCHLEGEL (1842). *Fauna Japonica, sive descriptio animalium quæ in itinere per Japoniam suscepto annis 1823-30 collegit, notis observationibus et adumbrationibus illustravit P. F. de Siebold. Coniunctis studiis C. J. Temminck et H. Schlegel pro vertebratis, atque W. de Haan pro invertebratis elaborata.* (Part 1R, Pisces.) Edited by Carl Theodor Ernst von Siebold, the text of fishes mostly by Hermann Schlegel.

CÆNRAAD JACOB TEMMINCK (1770-1858); HERMANN SCHLEGEL (1804-1884).

Temminck and Schlegel gave no specific names when but one species occurred in the genus. The names of type species have been given by subsequent writers.

- Perca-Labrax** Temminck & Schlegel, 2; orthotype *LABRAX JAPONICUS* Cuv. & Val. Name rejected by Bleeker and by Boulenger because no new genus was intended, LABRAX being merely entered as a subgenus of PERCA. Replaced by LATEOLABRAX Blkr. But an argument can be made for the retention of PERCALABRAX.
- Aulacocephalus** Temminck & Schlegel, 15; orthotype *A. TEMMINCKI* Blkr.
- Anoplus** Temminck & Schlegel, 17; orthotype *ANOPOLUS BANJOS* Rich. Name preoccupied; replaced by BANJOS Blkr. (1879).

294. VALENCIENNES (1842). *Determination des poissons: l'oyage autour du monde . . . sur . . . la "Bonite," etc.* Zoologie, I, Paris.

ACHILLE VALENCIENNES.

- Oxuderces** Valenciennes, 181; orthotype *O. DENTATUS* Val.

1843.

295. AGASSIZ (1843). *Recherches sur les poissons fossiles.* III, in part.

LOUIS AGASSIZ.

- Orthacanthus** Agassiz, III, pl. 45; orthotype *O. CYLINDRICUS* Ag. (fossil). Regarded by Woodward as a synonym of *PLEURACANTHUS* Ag., which preoccupied name it may replace.
- Pleurodus** Agassiz, III, 174; orthotype *P. RANKINEI* Ag. (fossil). No definition until accepted by Hancock and Althey, 1872. Regarded as preoccupied by *PLEURODON* (1840), replaced by *PLEUROPLAX* Woodw., 1889.
- Cladacanthus** Agassiz, III, 176; orthotype *C. PARADOXUS* Ag. (fossil); name only, defined first by Davis. *Trans. Roy. Dublin Soc.*, I, 1883, 365. A synonym of *ERISMACANTHUS*.
- Cricacanthus** Agassiz, III, 176; orthotype *C. JONISI* Ag. Name only, hence having no place in the system.
- Gyropristis** Agassiz, III, 177; orthotype *G. OBLIQUUS* Ag. Name only, hence without place in the system.
- Cladodus** Agassiz, III, 196; logotype *C. MIRABILIS* Ag. (fossil).
- Sphenonchus** Agassiz, III, 201; logotype *S. ELONGATUS* Ag. (fossil). A synonym, as restricted, of *ACRODUS* Ag.
- Diplodus** Agassiz, III, 204; logotype *D. GIBBOSUS* Ag. (fossil). Regarded by Woodward as a synonym of *PLEURACANTHUS* Ag. Both names are preoccupied. *DIPLODUS* has been replaced by *DIDYMODUS* Cope (1883), which is also preoccupied (as *DIDYMODON* Blake, 1863, a mammal) and again replaced by *DICRANODUS* Garman (1885). *ORTHACANTHUS* Ag. may replace *PLEURACANTHUS*, and some of the names given by Owen, as *DITTOBUS*, have priority over *DICRANODUS*. It is not yet certain that the teeth called *DIPLODUS* and the spines called *ORTHACANTHUS* belong to the same fish.

- Otodus** Agassiz, III, 206; logotype *O. OBLIQUUS* Ag., not *O. APPENDICULATUS* Ag. (fossil). Apparently not separable from the living genus, *LAMNA* Cuv. (1817).
- Corax** Agassiz, III, 244; logotype *GALEUS PRISTODONTUS* Morton (fossil)
- Hemipristis** Agassiz, III, 237; orthotype *II. SERRA* Ag. (fossil). A genus represented by a living homologue, *DIRRHIZODON ELONGATUS* Klunzinger in the Red Sea.
- Meristodon** Agassiz, III, 286; orthotype *ONYRHINA PARADOXA* Ag. (fossil). Probably a synonym of *HYBODUS*.
- Sphenodus** Agassiz, III, 298; orthotype *LAMNA LONGIDENS* Ag. (fossil). Name regarded as preoccupied as *SPHENODON* Gray (1831); replaced by *ORTHACODUS* Woodw. (1889).
- Carcharopsis** Agassiz, III, 313; orthotype *C. PROTOTYPUS* Ag. (fossil). Name only; same as *PRISTICLADODUS DENTATUS* McCoy. A synonym of *DICRENODUS* Romanowsky (1853), which name Woodward adopts, as being first defined and with a described type.
- Zygobatis** Agassiz, III, 328; logotype *RHINOPTERA STUDERI* Ag. (fossil). Apparently a synonym of *RHINOPTERA* Kuhl.
- Ganodus** Agassiz, III, 339; orthotype *CHIMERA OWENI* Ag. (fossil).
- Psittacodon** Agassiz, III, 340; logotype *ISCHYODUS PSITTACINUS* Egert. (fossil). A synonym of *GANODUS*.
- Actinobatis** Agassiz, III, 372; orthotype *RAJA ORNATA* Ag. (fossil). Regarded as a synonym of *RAJA* L. If so, the living species, *RAJA ORNATA* Garman, must receive a new name.
- Scylliodus** Agassiz, III, 377; orthotype *S. ANTIQUUS* Ag. (fossil). An ally of *THYELLINA* and *SCYLLIORHINUS*.
- Arthropterus** Agassiz, III, 379; orthotype *A. RILEYI* Ag. (fossil). A bit of some unrecognized ray.
- Asterodermus** Agassiz, III, 381; orthotype *A. PLATYPTERUS* (fossil). Name preoccupied by *ASTRODERMUS* Bonelli, 1829.
- Thyellina** Agassiz, III, 378; orthotype *T. ANGUSTA* Ag. (fossil). A fossil ally of *SCYLLIORHINUS* Blainv.
- Narcopterus** Agassiz, III, 382; orthotype *N. BOLCANUS* Ag. (fossil). Name only, hence not part of the system. An ally of *TORPEDO* Dum.
- Cyclarthrus** Agassiz, III, 382; orthotype *C. MACROPTENES* Ag. (fossil). A fin of some ray, imperfectly known.
- Euryarthra** Agassiz, III, 382; orthotype *E. MUNSTERI* Ag. (fossil). An ally of *RHINOBATUS* Linck and a synonym of *ÆLLOPOS* Münster.
296. EGERTON (1843). *On Some New Species of Fossil Chimaroid Fishes, with Remarks on Their Affinities* Proc. Geol. Soc., IV.
 PHILIP DE MALPAS GREY EGERTON.
- Ischyodus** Egerton, IV, 155; orthotype *CHIMERA COLEI* (Buckland) Ag. (fossil).
- Elasmodus** Egerton, IV, 156; orthotype *E. HUNTERI* Egert. (fossil).
297. HALL (1843). *Natural History of New York*. (Palæontology.)
 JAMES HALL.
- Sauripteris** Hall, IV, 282; orthotype *S. TAYLORI* Hall (fossil). Usually written *SAURIPTERUS*.
298. HÆCKEL (1843). *Abbildungen und Beschreibungen der Fische Syriens, nebst einer neuen Classification und Charakteristik sämmtlicher Gattungen der Cyprinen*. Stuttgart.
 JOHANN JAKOB HÆCKEL.

- Leucos** (Bonaparte) Heckel, 48; logotype *L. RUBELLUS* Bon. Name regarded as preoccupied as *LEUCUS* Kaup, a genus of birds; replaced by *CENISOPHIUS* Bon.
- Phoxinellus** Heckel, 50; orthotype *P. ALPIDOTUS* Heckel, as restricted by Bleeker, who later separated *P. ZFREGI* as *PSEUDOPHOXINUS*, 1859. Same as *PARAPHOXINUS* Blkr., 1863.
- Mola** Heckel, appendix, 257; orthotype *CYTRINUS MOLA* Ham. Preoccupied in fishes; replaced by *AMBLYPHARYNGODON* Blkr.

299. HECKEL (1843). *Ichthyologie (von Syrien)*. In Russegger (Joseph von): *Reisen in Europa, Asien und Africa, mit besonderer Rücksicht auf naturwissenschaftlichen Verhältnisse der betreffenden Länder, unternommen in den Jahren 1835 bis 1841*. Part 2, 1843.

JOHANN JAKOB HECKEL.

- Cyrene** Heckel, II, 284; logotype *C. OCELLATA* Heckel. A synonym of *DANGILIA* Cuv. & Val. (1842).
- Schizopyge** Heckel, II, 285; logotype *SCHIZOTHORAX CURVIFRONS* Heckel, as restricted by Bleeker, 1863.
- Aspidoparia** Heckel, II, 288; orthotype *A. SARDINA* Heckel.

300. LOWE (1843). *Notice of Fishes Newly Observed or Discovered in Madeira During the Years 1810, 1841 and 1842*. Proc. Zool. Soc. London.

RICHARD THOMAS LOWE.

- Taractes** Lowe, 82; orthotype *T. ASPER* Lowe.
- Antigonia** Lowe, 85; orthotype *A. CAPROS* Lowe.
- Hesperanthias** Lowe, 14; orthotype *SERRANYS OCLATUS* Cuv. & Val. A synonym of *ETELIS* Cuv. & Val.
- Cubiceps** Lowe, 82; orthotype *PSENES GRACILIS* Lowe. A synonym of *PSENES* Cuv. & Val.
- Echiostoma** Lowe, 87; orthotype *E. BARBATUM* Lowe.
- Metopias** Lowe, 90; orthotype *M. TYPHLOPS* Lowe. Preoccupied; replaced by *MELAMPHAËS* Gthr., 1864.
- Gadella** Lowe, 91; orthotype *G. GRACILIS* Lowe. *GADUS MARALDI* Risso. Replaces *URALEPTUS* Costa (1858).
- Diaphasia** Lowe, 92; orthotype *GYMNOTUS ACUS* Bruunich. A synonym of *CARAPUS* Raf.; a substitute for the "barbarous" name, *FIERASFER*.

301. LOWE (1843). *A History of the Fishes of Madeira, etc.*

RICHARD THOMAS LOWE.

- Pleurothyris** Lowe, 64; orthotype *STERNOPTYX OLIERSI* Cuv. Misprinted *PLEUROTHYSIS* by Gunther. A synonym of *ARGYROPELFCUS* Cocco.

302. MÜLLER (1843). *Beiträge zur Kenntniss der natürlichen Familien der Knochenfische*. Sitzb. Akad. Wiss. Berlin.

JOHANNES MÜLLER

- Encheliophis** Muller, 153, orthotype *E. VERNICULARIS* Muller.

303. MÜLLER (1843). *Beiträge zur Kenntniss der natürlichen Familien der Fische*. Wiegmann's Arch. Naturgesch.

JOHANNES MÜLLER

- Cotylis** Muller & Troschel, 297, haplotype *LEPADOGASTER NUDUS* Bl. & Schm. *GOMPHOS GYRINUS* J. & E., not *CYCLOPTERUS NUDUS* L., which is not identified. Later restricted by Gunther, 1861, *COTYLIS FIMBRATA* M. & T., a species

- described later and not at first included by Müller. (*Horæ Ichthyologia*, III, 297. For *COTYLIS* Günther, not Müller, the name *COTYLICHTHYS* Jordan, 1919, has been substituted. A synonym of *GOBIESOX* Lac.
- Sicyases** Müller & Troschel, 298; orthotype *S. SANGUINEUS* M. & T.
- Synacidium** Müller, 302; orthotype *SCORPÆNA HORRIDA* L., "SYNANCEIA mit Vomerzähnen". A synonym of *SYNANCEJA* Bl. & Schn., as restricted.
- Ptenichthys** Müller, 312; logotype (*EXOCÆTUS FURCATUS* Mitchell; "EXOCÆTUS mit Barbfaden"). A synonym of *CYPSSELURUS* Sw., 1839.
- Hemiodus** Müller, 316; orthotype *H. CRENIDENS* Müller.
- Macrodon** Müller, 163; orthotype *M. TRAHIRA* Müller = *SYNODUS MALABARICUS* Bl. & Schn. Name preoccupied by *MACRODON* Schinz, 1822; replaced by *HOPLIAS* Gill.
- Euanemus** Müller, 318; orthotype *E. COLUMBETES* Müller = *HYPOPHthalmus NUCHALIS* Spix. A synonym of *AUCHENIPTERUS* Cuv. & Val., as restricted by Bleeker and by Eigenmann.
- Calophysus** Müller, 318; orthotype *PIMELODUS MACROPTERUS* Lichtenstein.
- Mormyrops** Müller, 324; logotype *MORMYRUS ANGUILLLOIDES* Geoffroy St. Hilaire.
- Gastrophysus** Müller, 330; orthotype *TETRAODON LUNARIS* L. Substitute for *PHY-SOGASTER* Müller, preoccupied. A synonym of *LAGOCEPHALUS* Sw.
- Arapaima** Müller, 326; orthotype *SUDIS GIGAS* Cuv. A substitute for *SUDIS* Cuv., preoccupied by *SUDIS* Raf. (1810).
- Heterotis** (Ehrenberg) Müller, 326; orthotype *SUDIS NILOTICUS* Cuv. A synonym of *CLUPISUDIS* Sw.

304. MÜNSTER (1843). *Beiträge zur Petrefaktenkunde*. VI.

GEORG MÜNSTER.

- Wodnika** Münster, VI, 48; orthotype *ACRODUS ALTHAUSI* Münster (fossil).
- Byzenos** Münster, VI, 50; orthotype *B. LATIPINNATUS* Münster (fossil). A synonym of *JANASSA*.

305. PORTLOCK (1843). (*Geological Survey of Londonderry*.)

JOSEPH ELLISON PORTLOCK.

- Tristychius** Portlock, 464; orthotype *T. MINOR* Portlock (fossil).

306. RICHARDSON (1843). *Description of the Lurking Mocherie (Machærium subducens) from the Northern Coast of New Holland*. Ann. Mag. Nat. Hist. VII.

JOHN RICHARDSON.

- Machærium** Richardson, XII, 175; orthotype *M. SUBDUCENS* Rich. Name preoccupied; replaced by *CONGROGADUS* Gthr., 1862.

307, 308. TEMMINCK & SCHLEGEL (1843). *Fauna Japonica* (part).

COENRAAD JACOB TEMMINCK; HERMANN SCHLEGEL.

- Acropoma** Temminck & Schlegel, 41; orthotype *ACROPOMA (JAPONICUM)* Gthr.).
- Aploactis** Temminck & Schlegel, 51; orthotype *A. ASPERA* Rich.
- Glaucosoma** Temminck & Schlegel, 1843, 62; orthotype *G. BURGERI* Rich.
- Caprodon** Temminck & Schlegel, 64; orthotype *CAPRODON* = *ANTIHIAS SCHLEGELI* Gthr.

1844

309. AGASSIZ (1844). *Recherches sur les poissons fossiles*. I, II, III, IV, V (parts completed).

LOUIS AGASSIZ.

- Placosteus** Agassiz, I, XXIII; orthotype *P. MEANDRINUS* Ag. (fossil); name only, replaced in 1845 by *PSAMMOSTEUS* Ag.
- Chelonichthys** Agassiz, I, XXXIII; logotype *C. ASMUSI* Ag. (fossil); name only. A synonym of *ICHTHYOSAUROIDES* Kutorga.
- Glyptosteus** Agassiz, I, XXXIV; orthotype *G. RETICULATUS* Ag. (fossil); name only. A synonym of *BOTHRIOLEPIS*.
- Psammolepis** Agassiz, I, XXXIV; orthotype *P. PARADOXUS* Ag. (fossil); name only, replaced in 1845 by *PSAMMOSTEUS* Ag.
- Scaphodus** Agassiz, I, XLIII; orthotype *GYRONCHUS ORLONGUS* Ag. (fossil). A synonym of *GYRONCHUS*.
- Pododus** Agassiz, II, 83; orthotype *P. CAPILLATUS* Ag. (fossil); name only. Identified by Woodward, 1901, as a synonym of *MESOLEPIS* Young.
- Megalichthys** Agassiz, II, 89, 154; orthotype *M. HIBBERTI* Ag. (fossil). Not *MEGALICHTHYS* Ag. 1836. Should apparently stand as *CENTRODUS* McCoy.
- Conodus** Agassiz, II, 105; orthotype *C. FERON* Ag. (fossil); name only; preoccupied as *CONODON* Cuv. & Val., 1830. A synonym of *CATURUS* Ag.
- Thrissonotus** Agassiz, II, 128; orthotype *T. COLEI* Ag. (fossil); name only. Same as *OXYGNATHUS* Egert.; defined by Egerton, 1858.
- Microspondylos** Agassiz, II, 139; orthotype *M. ESCHERI* Ag. (no definition: shales of Glarus).
- Cricodus** Agassiz, II, 156; orthotype *DENDRODUS INCURVUS* Duff. (fossil).
- Amblysemus** Agassiz, II, 165; orthotype *A. GRACILIS* Ag. (fossil).
- Macropoma** Agassiz, II, 174; orthotype *M. EGERTONI* Ag. (fossil); name only. Defined by Egerton, *Mem. Geol. Surv.*, IX, No. 10, 1858, from which the name should date. A synonym of *EURYCORMUS* Wagner, 1863, and of earlier date.
- Uronemus** Agassiz, II, 178; orthotype *U. LOBATUS* Ag. (fossil).
- Hoplopygus** Agassiz, II, 178; orthotype *H. BINNEYI* Ag. (fossil). A synonym of *CELCANTHUS*.
- Gyrosteus** Agassiz, II, 179; orthotype *G. MIRABILIS* Ag. (fossil); name only; validated by Egerton, *Phil. Trans.*, 1858, 883.
- Ctenolepis** Agassiz, II, 180; orthotype *C. CYCLUS* Ag. (fossil). Undetermined scales; defined by Woodward, 1895.
- Periodus** Agassiz, II, 201; orthotype *P. KOENIGI* Ag. A synonym of *PYCNODUS* Ag.
- Gyronchus** Agassiz, II, 202; orthotype *G. ORLONGUS* Ag. (fossil).
- Aerotemnus** Agassiz, II, 203; orthotype *A. FABA* Ag. (fossil).
- Colobodus** Agassiz, II, 237; orthotype *C. HOGARDI* Ag. (fossil). Apparently a synonym of *ASTERODON* Münster.
- Phyllodus** Agassiz, II, 238; orthotype *P. TOLIAPICUS* Ag. (fossil).
- Acanthoderma** Agassiz, II, 251; logotype *A. SPINOSUM* Ag. (fossil). Name preoccupied. See *AGOREION* Gistel, 1847.
- Acanthopleurus** Agassiz, II, 253; orthotype *PLEURACANTHUS SERRATUS* Ag. (fossil). This name may be regarded as preoccupied by *ACANTHOPLEURA*, 1829.
- Rhinellus** Agassiz, II, 260; orthotype *R. FURCATUS* Ag. (fossil), regarded as preoccupied by *RHINELLA* Fitzinger, 1826; replaced by *ICHTHYOTRINGA* Cope, 1878.
- Glyptocephalus** Agassiz, II, 264; orthotype *G. RADIATUS* Ag. (fossil). Name preoccupied, Gottsche, 1835. A synonym of *BUCKLANDIUM* König.
- Chondrosteus** Agassiz, II, 280; orthotype *C. ACIPENSEROIDES* Ag. (fossil); name only; validated by Egerton, *Phil. Trans.*, 1858, 871.
- Nothosomus** Agassiz, II, 292; orthotype *N. OCTOSTYCHIUS* Ag. (fossil); name only; described by Egerton, *Mem. Geol. Surv.*, 1858, Dec. IX, No. 6. An ally of *PHOLIDOPHORUS*.

- Coccolepis** Agassiz, II, 300; orthotype *C. BUCKLANDI* Ag. (fossil).
- Plectrolepis** Agassiz, II, 306; orthotype *P. RUGOSUS* Ag. (fossil); name only; defined by Egerton, 1850. A synonym of *NOTACMON* Gistel, which replaces *EURYNOTUS* Ag.
- Oxyrhina** Agassiz, III, 276; orthotype *ISURUS SPALLANZANI* Raf. Preoccupied; replaced by *PLECTROSTOMA* Gistel (1848). A synonym of *ISURUS* Raf., 1810.
- Cœlacanthus** Agassiz, IV, 83; orthotype *C. GRANULATUS* Ag. (fossil).
- Rhamphosus** Agassiz, IV, 270; orthotype *CENTRISCUS ACULEATUS* Blainv. (fossil).
- Urosphen** Agassiz, IV, 284; orthotype *U. FISTULARIS* Ag. (fossil). (Printed as name only in *Neues Jahrb.*, 1835, 293.)
- Notæus** Agassiz, V, 12; orthotype *N. LONGICAUDUS* Ag. (fossil). Name regarded as preoccupied, as *NOTEUS* Ehrenb., 1830; replaced by *AMIOPSIS* Kner. A synonym of *CYCLURUS* Ag.
- Cyclurus** Agassiz, V, 12; orthotype *V. VALENCIENNESI* Ag. (fossil). Regarded as preoccupied by *CYCLURA* Harlan, 1825, a reptile, replaceable by *AMIOPSIS* Kner. A fossil homologue of *AMIA* L. (*AMIATUS* Raf.).
- Sphenolepis** Agassiz, V, 13; orthotype *CYPRINUS SQUAMOSSEUS* Blainv. (fossil). Name preoccupied, same as *NOTOGONEUS* Cope, 1885; perhaps a synonym of *ANORMURUS* Blainv., 1818.
- Autolepis** Agassiz, V, 14; orthotype *A. TYPUS* Ag.
- Enchelyopus** Agassiz, V, 16; orthotype *E. TIGRINUS* Ag. (fossil). (As name only in *Neues Jahrb.*, 1835, 307.)• Name preoccupied; replaced by *PARANGUILLA* Blkr., 1864.
- Pamphractus** Agassiz, V, 20; orthotype *P. HYDROPHILUS* Ag. (fossil). A synonym of *BOTHROLEPIS*.
- Coccosteus** Agassiz, 22; orthotype *C. DECIPIENS* Ag. (fossil).
- Polyphractus** Agassiz, V, 29; orthotype *P. PLATYCEPHALUS* Ag. (fossil). A synonym of *DIPTERUS* Sedgwick & Murchison.
- Carangopsis** Agassiz, V, 39; logotype *C. LATIOR* Ag. (fossil). Published as name only, *Neues Jahrb.*, 1835, 293.
- Amphistium** Agassiz, V, 44; orthotype *A. PARADOXUM* Ag. (fossil). (Noted as name only, *Neues Jahrb.*, 1835, 294.)
- Halecopsis** Agassiz, V, 44; orthotype *H. LEVIS* Ag. (fossil); names only; given definition by Woodward, 1901.
- Palimphytes** Agassiz, V, 46; logotype *P. LONGUS* Ag. (fossil).
- Archæus** Agassiz, V, 49; orthotype *A. GLARISIANUS* Ag. (fossil).
- Isurus** Agassiz, V, 51; orthotype *ISURUS MACRURUS* Egert. (fossil). (Printed as name only by Egerton, *Cat Foss. Fish*, 1837.) Name preoccupied; replaced by *ISURICHTHYS* Woodward, 1901.
- Pleionemus** Agassiz, V, 52; orthotype *P. MACROSPONDYLUS* Ag. (fossil). Name only. A fragment of an *ARCHÆUS*.
- Ductor** Agassiz, V, 53; orthotype *D. LEPTOSOMUS* Ag. (fossil). Printed in 1834 as name only in *Verhandl. Mus. Böhmen*, 66.
- Glyptopomus** Agassiz, 57; orthotype *G. MINOR* Ag. (fossil).
- Placothorax** Agassiz, 134; orthotype *P. PARADOXUS* Ag. (fossil). A synonym of *BOTIRIOLEPIS*.
- Platygnathus** Agassiz, V, 61; orthotype *P. JAMESONI* Ag. (fossil). A synonym of *HOLOPTYCHUS*.
- Glyptolepis** Agassiz, V, 62; logotype *G. LEPTOPTERUS* Ag. (fossil).
- Goniognathus** Agassiz, V, 63; logotype *G. MAXILLARIS* Ag. (fossil); name only. A synonym of *AMPHERISTUS* König.

- Phyllolepis** Agassiz, V, 67; orthotype *P. concentrica* Ag. (fossil).
Nemopteryx Agassiz, V, 75; orthotype *Cyclurus crassus* Egert. (fossil)
Holosteus Agassiz, V, 85; orthotype *H. esocinus* Ag. (fossil).
Hemirhynchus Agassiz, V, 87; orthotype *Histiophorus deshayesi* Ag. (fossil).
 Name preoccupied; perhaps the same as *Homorhynchus* Van Beneden, 1873.
Istieus Agassiz, V, 91; logotype *I. grandis* Ag. (fossil). An extinct ally of *Pterothrissus* Hilgendorf.
Sphyrænodus Agassiz, V, 98; orthotype *Sphyrænodus priscus* Ag. (fossil). Name printed by Owen, 1841.
Cælorhynchus Agassiz, V, 92; orthotype *C. rectus* Ag. (fossil); name preoccupied.
Hypsodon Agassiz, V, 101; orthotype *H. toliapicus* Ag., name only (fossil). Apparently a synonym of ally of *Megalops* Lac.
Osmeroides Agassiz, V, 103; orthotype *O. monasteri* Ag. (fossil). The name has been transferred by authors to *Salmo lewesiensis* Mantell, the type of *Holcolepis* von der Marck. *OSMEROIDES* should replace *SARDINIOIDES* von der Marck.
Rhamphognathus Agassiz, V, 9, 104; orthotype *R. paralepoides* Ag. (fossil).
Mesogaster Agassiz, V, 9, 105; orthotype *M. sphyrænoides* Ag. (fossil)
Spinacanthus Agassiz, V, 107; orthotype *S. blennioides* Ag. (fossil).
Acrognathus Agassiz, V, 108; orthotype *A. boops* Ag. (fossil).
Rhynchorinus Agassiz, V, 139; orthotype *R. branchialis* Ag. (fossil); name only; validated by Woodward, 1901.
Cælocephalus Agassiz, V, 139; orthotype *C. salmoneus* Ag. (fossil); name only. Preoccupied before defined by *Cælocephalus* Clark, 1860, and by *Cælocephalus* Gilbert & Cramer, 1897; replaced by *Eothyx* Woodward, 1901.
Halecopsis Agassiz, V, 139; orthotype *H. leis* Ag. (fossil) = *OSMEROIDES insignis* Delvaux & Ortleib (fossil); name only; validated by Woodward, 1901.
Elopides Agassiz, V, 139; orthotype *E. couloni* Ag. (fossil); name only; validated by Woodward, 1901.

310. COCCO (1844). *Intorno ad alcuni nuovi pesci del mare di Messina*. Lettera del Prof. Anastasio Cocco al Signor Augusto Krohn.

ANASTASIO COCCO.

- Krohnus** Cocco, 1; orthotype *K. filamentosus* Cocco. Young of *Cælorhynchus* Giorna
Bibronia Cocco, 15; orthotype *B. ligulata* Cocco. Larva of *Symphurus* Raf
Peloria Cocco, 21; orthotype *P. heckeli* Cocco. A larva of *Platophrys* Sw
Coccolus (Bonaparte) Cocco, 21; orthotype *C. annectens* Cocco. A larva of *Platophrys* Sw

311 CUVIER & VALENCIENNES (1844). *Histoire naturelle des poissons* XVII

ACHILLE VALENCIENNES.

- Catla** Cuvier & Valenciennes, XVII, 140; tautotype *Cyprinus catla* Ham. A synonym of *Gibbion* Heckel.
Sclerognathus Cuvier & Valenciennes, XVII, 472, logotype, restriction of Gunther, 1868, *Sclerognathus cyprinella* Cuv. & Val; the original diagnosis drawn up from *Catostomus cyprinus* Le Sueur, a species of *Carpiodes* Raf. A synonym of *Ictiobus* Raf, as here accepted. This view is not taken by Fowler, who regards *Carpiodes cyrinus* as type of *Sclerognathus* and gives to *I. cyrinella* the new name of *Megastomatobius*.

312. EGERTON (1845). *Description of a Fossil Ray from Mount Lebanon (Cyclobatis oligodactylus)*. Quart. Journ. Geol. Soc., I.

PHILIP DE MALPAS GREY EGERTON.

Cyclobatis Egerton, IV, 442; orthotype *C. OLIGODACTYLUS* Egert. (fossil).

313. EICHWALD (1844). *Ueber die Fische des devonischen Systems in der Gegend von Pawlowsk*. Bull. Soc. Nat. Moscow, XVII.

CARL EDWARD VON EICHWALD.

Sclerolepis Eichwald, XVII, 828; orthotype *S. DECORATA* Eichw. (fossil). A synonym of *GLYPTOLEPIS*.

Microlepis Eichwald, XVII, 830; logotype *M. EXILIS* Eichw. (fossil). A doubtful genus, the name preoccupied in reptiles.

Chiastolepis Eichwald, XVIII, 831; orthotype *C. CLATHRATA* Eichw. (fossil).

[GOLDFUSS (1844). *SCLEROCEPHALUS HAEUSERI* Goldfuss, 1844, described as a ganoid fish, is a reptile.]

314. KONINCK (1844). *Description des animaux fossiles qui se trouvent dans le terrain carbonifère de Belgique*.

LAURENT (GUILLAUME) DE KONINCK (1809-1887).

Campodus Koninck, 617; orthotype *C. AGASSIZIANUS* Koninck (fossil).

315. McCLELLAND (1844). *Description of a Collection of Fishes Made at Chasun and Ningpo in China by G. R. Playfair*. Journ. Nat. Hist. Calcutta, IV.

JOHN McCLELLAND.

Cossyphus McClelland, IV, 403; orthotype *C. ATER* McCl. Preoccupied; replaced by *PHAGORUS* McCl.

Phagorus McClelland, IV, 403; orthotype *COSSYPHUS ATER* McCl. = *MACROPTERONOTUS JAGUR* Ham. Replaces *COSSYPHUS* McCl., preoccupied.

Chaetomus McClelland, IV, 405; orthotype *C. PLAYFAIRI* McCl.

Muraenesox McClelland, V, 408; logotype *M. TRICUSPIDATA* McCl.

316. McCLELLAND (1844). *Apodal Fishes of Bengal*. Journ. Nat. Hist. Calcutta, V.

JOHN McCLELLAND.

Lycodontis McClelland, V, 173; logotype *L. LITERATA* McCl., as restricted by Jordan & Evermann, 1896. A synonym of *GYMNOTHORAX* Bloch, as here understood.

Thærodonis McClelland, V, 174; orthotype *T. RETICULATA* McCl. A synonym of *GYMNOTHORAX*.

Strophidon McClelland, V, 187; orthotype *LYCODONTIS LONGICAUDATA* McCl. A synonym of *GYMNOTHORAX*, the name wrongly transferred by Bleeker and Günther to the genus *PSEUDOCIDNA* Blkr.

Ophicardia McClelland, V, 191; orthotype *O. PHAYRIANA* McCl. A synonym of *FLUTA* Bl. & Schn. = *MONOPTERUS* Lac.

Pneumabanchus McClelland, V, 192; logotype *P. STRIATUS* McCl. A synonym of *AMPHIPNOUS* Müller.

Ophisternon McClelland, V, 197; logotype *O. BENGALENSIS* McCl. A synonym of *SYMBRANCHIUS* Bloch.

Ptyobanchus McClelland, V, 200; logotype *P. ARUNDINACEUS* McCl. A synonym of *RAITOBOURA* Gray = *MORINGUA* Gray.

Ophithorax McClelland, V, 212; logotype "*OPHISURUS OPHIS* Lac." (*MURENA MACULOSA* Cuv.). The species called *MURENA OPHIS* by Linnæus is the type of

the genus *OPHICHTHUS* of Ahl. *MURENA OPHIS* Bloch is probably the same and *M. OPHIS* Lac. seems to be drawn from the same material. The figure of Lacépède is the sole basis of Cuvier's *MURENA MACULOSA*. All these accounts seem to refer to the fish called *OPHICHTHUS HAVANNENSIS* (Bl. & Schn.). The *MACULOSUS* of Kaup and Günther is a different fish, a species of *MYRICHTHYS*. McClelland places "*OPHISURUS OPHIS* Lac." first among his species of *OPHITHORAX*. We therefore take it as his type, although his description is rather dubious. "Dorsal fin broad, anal narrow; body and dorsal covered with large round spots. Pectoral fin very minute. Seas of Europe." The genus is defined: "Pectoral fins very small so as to be scarcely perceptible." It is possible that this description applies to the species called *OPHICHTHUS MACULOSUS* by Günther (not by Cuvier). This is a species of *MYRICHTHYS*, thus far without tenable name. Using Günther's description of *OPHICHTHUS MACULOSUS* as the type, the species may be named *MYRICHTHYS GÜNTHERI* Jordan. It seems best to regard *OPHITHORAX* as a synonym of *OPHICHTHUS* Ahl, rather than to substitute it on doubtful grounds for *MYRICHTHYS* or for *CHLEVASTES (COLUBRINUS)*.

317. MEYER & PLIENINGER (1844). *Paläontologie von Württemberg*.
CHRISTIAN ERICH VON MEYER (1801-1894); WILHELM HEINRICH THEODOR
VON PLIENINGER (1795-1879).

Thectodus Meyer & Plieninger, 116; logotype *T. INFLATUS* Muller & Plieninger (fossil). A synonym of *ACROBUS*.

318. MÜLLER & TROSCHSEL (1844). *Synopsis generum et specierum familiae Characinarum*. Wiegmann's *Archiv. Naturg.* (Also in *Horæ Ichthyologicae*, III, 1845.)

JOHANNES MÜLLER; FRANZ HERMANN TROSCHSEL (1810-1882).

Chilodus Müller & Troschel, 85; haplotype *CHILODUS PUNCTATUS* M. & T. Preoccupied; replaced by *MICRODUS* Kner, 1859; also preoccupied, and by *CÆNOTROPUS* Gthr., 1864.

Alestes Müller & Troschel, 88; orthotype *SALMO NILOTICUS* Geoffroy St. Hilaire.

Brycon Muller & Troschel, 90; logotype *CHARACINUS MICROLEPIDOTUS* Cuv.

Exodon Muller & Troschel, 91; haplotype *EXOdon PARADOXUS* M. & T. Said to be preoccupied; replaced by *HYSTRICODON* Gthr. 1864

Epicyrthus Muller & Troschel, 92; haplotype *SALMO GIBBOSUS* Gronow. Preoccupied; replaced by *ANACYRTUS* Gthr., 1864. A synonym of *CHARAX* (Gronow) Scopoli.

Xiphorhamphus Müller & Troschel, 92; orthotype *SALMO FALCATUS* Bloch. Substitute for *XIPHORHYNCHUS* Ag., preoccupied. This name is also preoccupied and changed to *ACESTORHYNCHUS* Eigenmann (1903). "Nomen *XIPHORHYNCHUS* usurpatum in Ornithologia" (M. & T.).

Hydrolycus Muller & Troschel, 93; orthotype *HYDROCYON SCOMBEROIDES* Cuv.

Pygocentrus Muller & Troschel, 94; logotype *SERRASALMO PIRAYA* Cuv.

Pygopristis Muller & Troschel, 95; logotype *SERRASALMO DENTICULATUS* Cuv.

Catoprión Muller & Troschel, 96; haplotype *SERRASALMO MENTO* Cuv

Myelus Muller & Troschel, 98; orthotype *MYELUS SETIGER* Müller.

319. NARDO (1844) *Proposizione per la formazione di un nuovo genere di Selachi chiamato Caninoa o Caninotus, che costituirebbe una nuova sottofamiglia prossima ai Notidani* Ann Soc. Lombardo-Veneto, III

GIOVANNI DOMENICO NARDO.

Caninoa Nardo, 8; orthotype *SQUALUS BARBARUS* (Chierigini MSS.) = *C. CHIERIGINI* Nardo. An anomalous shark, not since recognized, if existing.

- Caninotus** Nardo, 8; orthotype **CANINOA CHIEREGHINI** Nardo. (**SQUALUS BARBARUS** Chierigini MSS.) Name a provisional substitute for **CANINOA**.
320. **PETERS** (1844). *Ueber einem den Lepidosirens annectens verwandten, mit Lungen und Kiemen zugleich versehenen Fisch aus den Sumpfen von Quellimane (Rhinocryptis amphibia)*. Mon. Akad. Berlin.
WILHELM CARL HARTWIG PETERS (1815-1883).
Rhinocryptis Peters, 414; orthotype **R. AMPHIBIA** Peters = **LEPIDOSIREN ANNECTENS** Owen. A synonym of **PROTOPTERUS** Owen.
- 320A. **REUSS** (1844). *Geognostische Skizzen aus Böhmen*.
AUGUST EMANUEL VON REUSS (1811-1873).
Thaumaturus Reuss, II, 264; orthotype **T. FURCATUS** Reuss (fossil). An extinct form of trout.
321. **RICHARDSON** (1844). *Description of a Genus of Chinese Fish (Hapalogenys)*. Ann. Mag. Nat. Hist., XIII.
JOHN RICHARDSON.
Hapalogenys Richardson, XIII, 463; logotype **H. NITENS** Rich. = **POGONIAS NIGRIPINNIS** T. & S.
322. **RICHARDSON** (1844). *Description of a New Genus of Gobioid Fish (Channichthys)*. Ann. Mag. Nat. Hist. XIII.
JOHN RICHARDSON.
Channichthys Richardson; orthotype **C. RHINOCERATUS** Rich. Name afterward spelled **CHÆNICHTHYS**, as dictated by a purist, an unwarranted change.
323. **RICHARDSON** (1844). *Generic Characters of an Undescribed Australian Fish (Potæcus fronto)*. Ann. Mag. Nat. Hist., XIV.
JOHN RICHARDSON.
Patæcus Richardson, XIV, 280; orthotype **P. FRONTO** Rich.
324. **RICHARDSON** (1844). *Ichthyology*. (In *The Zoology of the Voyage of H.M.S. "Sulphur", Under the Command of Captain Sir Edward Belcher, During the Years 1836-42*. Edited by R. B. Hinds).
JOHN RICHARDSON.
Chæturichthys Richardson, 54; orthotype **C. STIGMATIAS** Rich.
- Centridermichthys** Richardson, 74; orthotype **C. ANSATUS** Rich. = **TRACHIDERMUS FASCIATUS** Heckel. Replaces **TRACHIDERMUS** Heckel, regarded as preoccupied by **TRACHYDERMA**.
- Calloptilum** Richardson, 94; orthotype **C. MURUM** Rich. A synonym of **BREGMACEROS** Cantor.
- Astronesthes** Richardson, 97; orthotype **A. NIGRA** Richardson.
325. **RICHARDSON** (1844). *The Zoology of the Voyage of H.M.S. "Erebus and Terror", Under the Command of Captain Sir J. C. Ross . . . During 1839-43*. Edited by J. Richardson . . . and J. E. Gray. London.
JOHN RICHARDSON.
Notothenia Richardson, 5; logotype **N. CORICEPS** Rich.
- Harpagifer** Richardson, 11; orthotype **CALLIONYMUS BISPINIS** Forster.
- Chænichthys** Richardson, 12; orthotype **C. RHINOCERATUS** Rich.; a substitute for **CHANNICHTHYS**.
- Pagetodes** Richardson, 15; orthotype (not given a specific name, a cat having run away with the type specimen).

- Emmelichthys** Richardson, 47; orthotype *E. NITIDUS* Rich.
Cheilobranchus Richardson, 50; logotype *C. DORSALIS* Rich. A synonym of *ALABES* Cuv.
Prymnothonus Richardson, 51; orthotype *P. HOOKERI* Rich. A larval form.
Xystophorus Richardson, 52; very young of *NAUCRATES*.
Aluterius (Cuvier) Richardson, 66; after *ALUTERA* (Cuv.) Oken. One of many varied spellings of *ALUTERA*, derived from "*les ALUTERES*", as *ALUTARIUS*, *ALUTERUS*, etc. *ALUTERA* has priority.
Oxybeles Richardson, 74; orthotype *O. HOMEI* Rich. A synonym of *CARAPUS* (*FIERASFER*).
Molarii (Molarius) Richardson, 79; logotype "*MURÆNA OPHIS*" = *ECHIDNA NEBULOSA* (plural form only). A synonym of *ECHIDNA* Forster.
Channo-Muræna Richardson, 96 orthotype *ICHTHYOPHIS VITTATUS* Rich.
Congrus Richardson, 107; orthotype *MURÆNA CONGER* L. A variant spelling of *CONGER*.
Psammoperca Richardson, 115; orthotype *Ps. DATNIODES* Rich. = *LABRAX WAIGIENSIS* Cuv. & Val.; replaces *CNIDON* M. & T. (1849).
Gadopsis Richardson, 122; orthotype *G. MARMORATUS* Rich.

326. TEMMINCK & SCHLEGEL (1844). *Fauna Japonica* (part).

COENRAAD JACOB TEMMINCK; HERMANN SCHLEGEL.

- Chætopterus** Temminck & Schlegel, 78; orthotype *C. SIEBOLDI* Blkr. Name pre-occupied; replaced by *PRISTIPOMOIDES* Blkr.
Melanichthys Temminck & Schlegel, 75; orthotype *CRENIDENS MELANICHTHYS* Rich. A synonym of *GIRELLA* Gray.
Ditrema Temminck & Schlegel, 77; orthotype *D. TEMMINCKI* Blkr.
Hypsinothus Temminck & Schlegel, 84; orthotype *H. RUBESCENS* Gthr. A synonym of *ANTIGONIA* Lowe.
Scarodon Temminck & Schlegel, 89; logotype *S. FASCIATUS* T. & S. A synonym of *OPLEGNATHUS* Rich., 1840; available if the latter is regarded as pre-occupied.

327. VALENCIENNES (1844). *Ichthyologie des îles Canaries, ou Histoire naturelle des poissons, rapportés par MM. Webb & Berthelot*. In Webb, *Histoire naturelle des îles Canaries*. 11, 1835-1850.

ACHILLE VALENCIENNES.

- Nemobrama** Valenciennes, 40; orthotype *N. WEBBI* Val. = *POLYMIXIA NOBILIS* Lowe. A synonym of *POLYMIXIA* Lowe.
Crius Valenciennes, 43; orthotype *C. BERTHELOTI* Val. = *SCHEDOPHILUS MEDUSOPHAGUS*. A synonym of *SCHEDOPHILUS* Cocco.
Asellus Valenciennes, 76; orthotype *ASELLUS CANARIENSIS* Val. A synonym of *MORA* Risso.

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328. AGASSIZ (1845). *Rapport sur les poissons fossiles de l'argile de Londres*. Rept. British Assoc. Adv. Sci.

LOUIS AGASSIZ

- Rhinocephalus** Agassiz, 294; orthotype *R. PLANICEPS* Ag. (fossil). Name only, noted by Woodward, 1901.
Sciænurus Agassiz, 295; orthotype *S. BOWERBANKI* Ag. (fossil). A synonym of *SPARNODUS*.

- Pomaphractus** Agassiz, 307; orthotype *P. EGERTONI* Ag. (fossil); name only; identification by Woodward, 1901. A synonym of *BRYCHÆTUS* (Ag.) Woodw.
- Cœlopoma** Agassiz, 307; orthotype *C. COLEI* Ag. (fossil); name only; preoccupied (Adams, 1867) and replaced by *EOCŒLOPOMA* Woodw., 1901.
- Eurygnathus** Agassiz, 307; orthotype *E. CAVIFRONS* Ag. (fossil). Name only; validated by Woodward, 1901; preoccupied and replaced by *ESOCLOPS* Woodw.
- Percostoma** Agassiz, 307; orthotype *P. ANGUSTA* Ag. Name only; noted by Woodward, *Cat.*, 519, 1901.
- Cœloperca** Agassiz, 307; orthotype *CŒLOPERCA LATIFRONS* Ag. (fossil). Name only; noted by Woodward, *Cat.*, IV, 519.
- Bothrosteus** Agassiz, 307; orthotype *B. MINOR* Ag. (fossil). Name only, noted by Woodward, *Cat.*, IV, 611, 1901.
- Calopomus** Agassiz, 307; orthotype *C. POROSUS* Ag. (fossil), name only.
- Brachygnathus** Agassiz, 307; orthotype *B. TENUICEPS* Ag. (fossil). Name only, noted by Woodward *Cat.*, 1901, 519; name preoccupied.
- Podocephalus** Agassiz, 307; orthotype *P. NITIDUS* Ag. (fossil). Name only; noted by Woodward, *Cat.*, 519, 1901.
- Brychætus** Agassiz, 308; orthotype *B. MULLERI* Ag. (undefined) (fossil); first defined by Woodward, 1901.
- Merlinus** Agassiz, 308; orthotype *M. CRISTATUS* Ag. (fossil), noted by Woodward, 1901.
- Scombrinus** Agassiz, 308; orthotype *S. NUCHALIS* Ag. (fossil); name only; validated by Woodward, 1901.
- Phalacrus** Agassiz, 308; orthotype *P. CYBIOIDES* Ag. (fossil); name only; referred by Woodward to synonymy of *EOTHYNNUS* Woodw.
- Rhonchus** Agassiz, 308; orthotype *R. CARANGOIDES* Ag. (fossil). Name only; explained by Woodward, *Cat.*, IV, 458. A synonym of *EOTHYNNUS* Woodw.
- Naupygus** Agassiz, 308; orthotype *N. BUCKLANDI* Ag. (fossil). Name only; noted by Woodward, *Cat.*, 611 (1901).
- Acestrus** Agassiz, 308; orthotype *A. ORNATUS* Ag. (fossil). Name only; validated by Woodward, 1901, perhaps to be regarded as preoccupied by *ACESTRA* Jardine, 1831.
- Laparus** Agassiz, 308; orthotype *L. ALTICEPS* Ag. (fossil: name only; discussed by Woodward, 1901).
- Labrophagus** Agassiz, 308; orthotype *L. ESOCINUS* Ag. (fossil). Name only; noticed by Woodward, *Cat.*, IV, 611, 1901.
- Loxostomus** Agassiz, 308; orthotype *L. MANCUS* Ag. (fossil). Name only; noted by Woodward, *Cat.*, IV, 612, 1901.
- Pachycephlus** Agassiz, 308; orthotype *P. CRISTATUS* Ag. (fossil). Name only; noted by Woodward, *Cat.*, IV, 612, 1901.

Most of the foregoing names from Agassiz's list of the Egerton collection have been identified from labeled specimens and several have justly come into use as dating, not from 1845, but from their first definition. Woodward gives the following additional generic names, of which nothing is known, and which, until defined, have no place in the system.

- Echenus** (POLITUS).
Gadopsis (BREVICEPS).
Phasganus (DECLIVIS).
Rhipidolepis (ELEGANS).
Synphrys (HOPEI).

- 329 AGASSIZ (1845). *Monographie des poissons fossiles du Vieux Grès Rouge, ou Système Dévonien (Old Red Sandstone) des îles Britanniques et de Russie. Part 2*

LOUIS AGASSIZ.

- Diplacanthus** Agassiz, 34, 40; orthotype *D. STRIATUS* Ag.
Lamnodus Agassiz, 83; orthotype *DENDRODUS BIPORCATUS* Owen (fossil). A synonym of *DENDRODUS*.
Psammosteus Agassiz, 103; logotype *P. MEANDRINUS* Ag. (fossil).
Homacanthus, 113; orthotype *H. ARCUATUS* Ag. (fossil).
Haplacanthus Agassiz, 114; orthotype *H. MARGINALIS* Ag. (fossil).
Odontacanthus Agassiz, 114; logotype *O. CRENATUS* Ag. (fossil). A synonym of *ASTROLEPIS*.
Narcodes Agassiz, 115; orthotype *N. PUSTULIFER* Ag. (fossil). A supposed synonym of *ASTROLEPIS*.
Byssacanthus Agassiz, 116; orthotype *B. CRENULATUS* Ag. (fossil).
Naulas Agassiz, 116; orthotype *N. SULCATUS* Ag. (fossil).
Climatius Agassiz, 119; orthotype *C. RETICULATUS* (Ag. fossil).
Cosmacanthus Agassiz, 120; orthotype *C. MALCOLMSONI* Ag. (fossil).
Parexus Agassiz, 120; orthotype *P. INCURVUS* Ag. (fossil).
Homothorax Agassiz, 134; orthotype *H. FLEMINGI* Ag. (fossil). A synonym of *BOTHRIOLEPIS*.
Chelyophorus Agassiz, 135; orthotype *C. VERNEUILI* Ag. (fossil).
Actinolepis Agassiz, 141; orthotype *A. TUBERCULATUS* Ag. (fossil). A supposed synonym of *ASTROLEPIS*.
Stagonolepis Agassiz (not quoted by Woodward; referred to the *DIPTERINI*).
 330. BLEEKER (1845). *Bijdragen tot geneseskunde topographie van Batavio. Generisch overzicht der fauna. II, 1845. Arch. Nederl. Indie.*
 PIETER BLEEKER (1819-1878).
Pinjalo Bleeker, II, 251 (1845); orthotype *CESIO PINJALO* Blkr. = *P. TYPUS* Blkr.
Heterodon Bleeker, 323; orthotype *H. ZONATUS* Blkr. Name preoccupied in serpents; replaced by *HETEROGNATHODON* Blkr., 1848.
Mesopristes Bleeker, 523; orthotype *M. MACRACANTHUS* Blkr.; a synonym of *DATNIA* Cuv. & Val.
 331. BONAPARTE (1845). *Catologo metodico dei pesci Europei. Atti Sci. Ital.* (Reprint as a separate volume, Naples, 1846.)
 CARLO L. PRINCIPE BONAPARTE.

Some of the names here used may have occurred in other papers of 1844 and 1845.

- Glaucostegus** Bonaparte, 14; orthotype *G. CEMICULUS* Bon. ("RHINA RHINORATUS SHAW RH. CEMICULUS Geoffroy.") A synonym of *RHINORATUS*.
Acanthias Bonaparte, 15; orthotype *SQUALUS ACANTHIAS* L. *A. VULGARIS* Bon. same as *ACANTHIAS* Risso. A synonym of *SQUALUS* L. as restricted.
Lepidorhinus Bonaparte, 16; orthotype *SQUALUS SQUAMOSUS* Broussonnet.
Scymnorhinus Bonaparte, 16; orthotype *S. LICHIA*. Replaces *SCYMNUM* Cuv., preoccupied.
Spinax Bonaparte, 16; tantotype *SQUALUS SPINAX* L. Same as *SPINAX* Cuv. A synonym of *ETMORTERUS* Raf.
Sterledus Bonaparte, 21; orthotype *ACIPENSER RUTHENUS* Bon. Same as *STERLETA* Guldenstädt.

- Cenisophius** Bonaparte, 29; orthotype *LEUCISCUS PAUPERUM* Bon. Replaces *LEUCOS* Heckel, preoccupied in birds, as *LEUCUS*.
- Gardonus** Bonaparte, 29; orthotype *LEUCISCUS DECIPIENS* Ag. A synonym of *CENISOPHIUS*.
- Pigus** Bonaparte, 29; tautotype *CYPRINUS FIGUS* Cloquet. Apparently a synonym of *CENISOPHIUS*.
- Cephalus** Bonaparte, 30; orthotype *CYPRINUS CEPHALUS* L. Name preoccupied; a synonym of *LEUCISCUS* Cuv.
- Microlepis** Bonaparte, 30; no diagnosis; orthotype *M. TURSKYI* Bon. A synonym of *LEUCISCUS* Cuv.
- Hegerius** Bonaparte, 31; orthotype *SCARDINIUS HEGERI* Bon., *HEGERIUS TYPUS* Bon. An ally of *TELESTES*; the name later spelled *HEEGERIUS*.
- Scardinius** Bonaparte, 31; logotype *LEUCISCUS SCARDAFA* Bon.
- Pollachius** (Nilsson) Bonaparte 45; orthotype *GADUS POLLACHUS* L. = *GADUS VIRENS* L.
- Coccolus** Bonaparte, 47; orthotype *C. ANNECTENS* Bon., a substitute for *KROHNII* Cocco (*K. FLAMENTOSUS*, which is the larva of the *MACRURID*, *CÆLORHYNCHUS*, *Giorna*).
- Cynoglossa** Bonaparte, 48; orthotype *PLEURONECTES CYNOGLOSSUS* L. A synonym of *CYNICOGLOSSUS* Bon., not *CYNGLOSSUS* Ham.
- Plagusia** Bonaparte, 51; orthotype *PLAGUSIA LACTEA* Bon. A substitute for *PLAGUSIA* Cuv., preoccupied. A synonym of *SYMPHURUS* Raf.
- Scorpicthyes** Bonaparte, 62; logotype *COTTUS SCORPIUS* L., in plural form only. A synonym of *MYOXOCEPHALUS* Stellar.
- Gastronemus** (Cocco) Bonaparte, 68; orthotype *PHAROPTERYX BENOITI* Rüppell. Name preoccupied. A synonym of *MORA* Risso.
- Tinimogaster** (Cocco) Bonaparte, 68; no definition; quoted by Bonaparte in connection with *GASTRONEMUS* Cocco. A synonym of *MORA* Risso, apparently a substitute for *GASTRONEMUS*, preoccupied.
- Selenia** Bonaparte, 75; orthotype *CARANX LUNA* Geoffroy St. Hilaire = *SCOMBER GUARA* *Bonnaterre*. Apparently replaces *URASPIS* Blkr.

332. BRODIE (1845). (*Fossil Insects*.)

PETER BELLINGER BRODIE.

- Oxygonius** (Agassiz) Brodie, 16; orthotype *O. TENUIS* Ag. (fossil). Young fishes, indeterminate.
- Ceramurus** (Egerton) Brodie, 17; orthotype *C. MACROCEPHALUS* Egert. (fossil).

333. COSTA (1845). (*Fossil Fishes*.) Atti Acad. Pontan. Napoli.

ORONZIO GABRIELE COSTA.

- Megastoma** Costa, V, 287; orthotype *M. APENNINUM* Costa (fossil). A synonym of *LEPTOLEPIS*.

334. KRÖYER (1845). *Icelus Hamotus*. Naturhist. Tidsskr., I.

HENRIK NICOLAJ KRÖYER (1799-1870).

- Icelus* Krøyer, I, 253; orthotype *I. HAMATUS* Krøyer.
- Phobetor** Krøyer, I, 263; orthotype *COTTUS TRICUSPIS* Reinh. A synonym of *GYMNOCANTHUS* Sw.

335. KRÖYER (1845). *Carelophus stromii*. Naturhist. Tidsskr., I.

HENRIK NICOLAJ KRÖYER.

- Carelophus** Krøyer, I; orthotype *C. STREMI* Krøyer. A synonym of *CHIROLOPHIS* Sw.

336. KRÖYER (1845). *Caracanthus typicus*. Naturhist. Tidsskr., 1.

HENRIK NICOLAJ KRÖYER.

Caracanthus Krøyer, 1, 267; orthotype *C. TYPICUS* Krøyer. *MICROPUS MACULATUS* Gray. Replaces *MICROPUS* Gray, preoccupied.

337. KRÖYER (1845). *Ceratis hollbolli*. Naturhist. Tidsskr., 1.

HENRIK NICOLAJ KRÖYER.

Cerantias Krøyer, 1, 639; orthotype *C. HOLLBOLLI* Krøyer.

338. McCLELLAND (1845). *Description of Four Species of Fishes from the Rivers at the Foot of the Boutan Mountains*. Journ. Nat. Hist. Calcutta, V, 1840, 272, 282.

JOHN McCLELLAND.

Ctenops McClelland, V, 281; orthotype *C. NOBILIS* McCl. A synonym of *OSPROMENUS* Lac.

339. MÜLLER & TROSCHEL (1845). *Horae Ichthyologicae, Beschreibung und Abbildung neuer Fische; die Familie Characinen*. 1. Berlin.

JOHANNES MÜLLER: FRANZ HERMANN TROSCHEL.

Distichodus Müller & Troschel, 1, 12; orthotype *SALMO NILOTICUS* Hasselquist. *CHARACINUS NEFASCHII* Lac.

Agoniates Müller & Troschel, 1, 19; haplotype *AGONIATES HALECINUS* M. & T.

Cnidon Müller & Troschel, 1, 21; orthotype *CNIDON CHINENSIS* M. & T.

340. OWEN (1845). *Odontography*.

RICHARD OWEN.

Pisodus (Agassiz) Owen, 138; orthotype *P. OWENI* Ag. (fossil). An ally of *ALBULA* Gronow.

341. RICHARDSON (1845). *Generic Characters of Gasteroschisma melampus, a Fish which Inhabits Port Nicholson, New Zealand*. Ann. Mag. Nat. Hist., XV.

JOHN RICHARDSON.

Gasteroschisma Richardson, 346; orthotype *G. MELAMPUS* Rich.

342. RICHARDSON (1845). *Report on the Ichthyology of the Seas of China and Japan*. Rept. Brit. Assoc. Adv. Sci.

JOHN RICHARDSON.

Ilisha (Gray) Richardson, 306; haplotype *ILISHA ABNORMIS* Gray. *ALOSA ELONGATA* Bennett. Replaces *PELLONA* Cuv. & Val., and *ZUNASIA* Jordan & Thompson.

343. SOUTH (1845). *Encyclopædia Metropolitana*. (Edition for 1845.)

JOHN FLINT SOUTH.

Thunnus South, V, 620; orthotype *SCOMBER THYNNUS* L. A substitute for *THYNNUS* Cuv., preoccupied in butterflies.

344. TEMMINCK & SCHLEGEL (1845). *Fauna Japonica* (issued in parts)

CJENRAAD JACOB TEMMINCK; HERMANN SCHLEGEL.

Erythrichthys Temminck & Schlegel, 1845, 117; orthotype *E. SCHLEGELI* (thr. Name preoccupied; replaced by *ERYTHROCLAS* Jordan, 1919.

Scombrops Temminck & Schlegel, 118; orthotype *S. CHEILODIPTEROIDES* Blkr. *SCOMBER ROOPS* Houttuyn.

Dictyosoma Temminck & Schlegel, 139; orthotype *D. BURGERI* Van der Hoeven.

Cirrhilabrus Temminck & Schlegel, 167; orthotype *C. TEMMINCKI* Blkr.

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345. AGASSIZ (1846). *Nomenclator Zoologicus. Pisces.*

LOUIS AGASSIZ.

Hypeneus Agassiz, 190; logotype *MULLUS BIFASCIATUS* Lac. A corrected spelling of *UPENEUS*.346. AGASSIZ (1846). *Nomen manuscriptum in diversis museo usurpatum. Nomina systematica generum piscium, tam viventium quam fossilium. Addenda to Nomenclator Zoologicus. Pisces.*

LOUIS AGASSIZ.

The three names which follow occur in the *Nomenclator Zoologicus* as manuscript names used by Agassiz on labels in different museums. They have no place in the system.

Glaphyrodus Agassiz, Addenda, 3; species not named (same as *OXYRHINA*). A synonym of *ISURUS* Raf.**Holodus** Agassiz, Addenda, 3; species not named. A synonym of *HEPTRANCHIAS* (NOTIDANUS).**Oroptychus** Agassiz, Addenda, 4 species not named ("CESTRACIONTES").**Toxophorus**. This name is given by Agassiz, page 63, with no indication as to its author.347. BIBRON (1846). *Revue Zoologique.*

GABRIEL BIBRON (1806-1848).

Chilomycterus Bibron, 40; logotype *DIODON RETICULATUS* L.348. BRISOUT DE BARNEVILLE (1846). *Note sur le groupe des Gobiesoces.* Rev. Zool.

CHARLES N. F. BRISOUT DE BARNEVILLE (1823-1893).

Tomicodon Brisout de Barneville, 144; orthotype *T. CHILENSIS* Barn. A synonym of *SICYASES* M. & T.**Sicyogaster** Brisout de Barneville, 144; orthotype *GOBIESOX MARMORATUS* Jenyns. Name preoccupied; replaced by Gill.**Chorisochismus** Brisout de Barneville, 209; orthotype *C. NUDUS* Barn. = *CYCLOPTERUS DENTEX* Pallas.349. BRISOUT DE BARNEVILLE (1846). *Note sur le nouveau genre de la famille des Discoboles (Trachelochismus).* Rev. Zool.

CHARLES N. F. BRISOUT DE BARNEVILLE.

Trachelochismus Brisout de Barneville, 214; orthotype *CYCLOPTERUS PINNULATUS* Forster.350. COSTA (1846). *Fauna del regno di Napoli, ossia enumerazione di tutti gli animali che abitano le diverse regioni di questo regno e le acque che le bagnano*, etc. Vol. III.

ORONZIO GABRIELE COSTA.

Cynoponticus Costa, pl. 28; orthotype *C. FEROX* Costa = *CONGER SAVANNA* Cuv.351. CUVIER & VALENCIENNES (1846). *Histoire naturelle des poissons.* XVIII, 1835.

ACHILLE VALENCIENNES.

Grundulus Cuvier & Valenciennes, XVIII, 216; haplotype *FUNDULUS BOGOTENSIS* Humboldt. Eigenmann identifies this with *CHARACIN*, *CTENOCHARAX BOGOTENSIS* Regan, 1907.**Orestias** Cuvier & Valenciennes, XVIII, 221; logotype *ORESTIAS CUVIERI* Val.

Vastres Cuvier & Valenciennes, XIX, 433; orthotype *VASTRES CUVIERI* Val. — *SUDIS GIGAS* Cuv. Same as *SUDIS* Cuv., preoccupied by *SUDIS* Raf., 1810; replaced by *ARAPAIMA* M. & T., 1846.

Heterotis (Ehrenberg MS.) Cuvier & Valenciennes, XIX, 465; orthotype *HETEROTIS EHRENBERGI* Val. I do not find that Ehrenberg had published this name elsewhere. A synonym of *CLUPISUDIS* Sw.

Lebiasina Cuvier & Valenciennes, XIX, 531; haplotype *LEBIASINA BIMACULATA* Val.

Pyrhulina Cuvier & Valenciennes, XIX, 534; haplotype *P. FILAMENTOSA* Val.

352. EICHWALD (1846). *Geognosy of Russia* (in Russian). Reproduced in 1860 in *Lethæa Rossica*.

CARL EDUARD VON EICHWALD.

Aulacosteus Eichwald; logotype (in 1860) *A. COCHLEARIFORMIS* Eichw. Same as *PRYTODUS* Pander and, if eligible, of prior date.

353. KEYSERLING (1846). *Reise in das Petchoraland im Jahre 1843*.

ALEXANDER VON KEYSERLING.

Dimeracanthus Keyserling, 292b; orthotype *D. CONCENTRICUS* Keyserling (fossil).

354. KRÖYER (1846). (*Danmarks Fiske*.)

HENRIK NIKOLAJ KRÖYER.

Acantholepis Krøyer, III, 98; orthotype *ARGENTINA SILUS*. A synonym of *SILUS* Reinhardt and probably of *ARGENTINA* L.

355. LOWE (1846). *On a New Genus of the Family Lophiidae (les Pectorales pediculées, Cuv.) Discovered in Madeira*. Proc. Zool. Soc. London, XIV.

RICHARD THOMAS LOWE.

Chaunax Lowe, III, 339; orthotype *C. PICTUS* Lowe.

356. MEYER (1846). *Geologie von Jena*. Schmidt und Schleiden.

HERMANN VON MEYER.

Tholodus Meyer, I, 199; orthotype *T. SCHMIDTI* Meyer (fossil). Undetermined; perhaps an *ASTEROBON*, perhaps a reptile.

357. MÜLLER (1846). (*Arapaima*.) Abhandl. Akad. Wiss. Berlin.

JOHANNES MÜLLER.

Arapaima Muller; haplotype *SUDIS GIGAS* Cuv. Replaces *SUDIS* Cuv., preoccupied, and *VASTRES* Cuv. & Val. of the same year but of later date, as Valenciennes quotes *ARAPAIMA*.

358. MUNSTER (1846). *Ueber die im Korallenkalk des Lindner Berges bei Hannover vorkommenden Ueberreste von Fischen, etc.* Beiträge zur Petrefacten-Kunde.

GEORG MUNSTER.

Radamas Munster, VII, 11, 28, orthotype *ASIMA JUGLERI* Giebel (fossil). Same as *ASIMA* Giebel and of prior date.

359. NORWOOD & OWEN (1846). *Description of a New Fossil Fish from the Palæozoic Rocks of Indiana*. Amer. Journ. Sci., I.

JOSEPH GRANVILLE NORWOOD, DAVID DALE OWEN.

Macropetalichthys Norwood & Owen, I, 371; orthotype *M. RAPHFIDOLABIS* Norwood & Owen (fossil)

- 359A. RICHARDSON (1846). *Stokes: Discoveries in Australia*.
JOHN RICHARDSON.
Assiculus Richardson, 492; orthotype A. PUNCTATUS Rich. A synonym of PSEUDOCROMIS Rüppell.
360. PETERS (1846). *Ueber eine neue Gattung von Labyrinthfischen . . . aus Quellimane*. Arch. Anat.
WILHELM CARL HARTWIG PETERS.
Ctenopoma Peters, 481; orthotype C. MULTISPINIS Peters.
361. TEMMINCK & SCHLEGEL (1846). *Fauna Japonica* (part).
COENRAAD JACOB TEMMINCK; HERMANN SCHLEGEL.
Plecoglossus Temminck & Schlegel, 229; orthotype P. ALTIVELIS T. & S.
Ateleopus Temminck & Schlegel, 255; orthotype A. JAPONICUS Blkr. Name preoccupied as ATELOPUS; replaced by PODATELES Boulenger.
362. TSCHUDI (1846). *Untersuchungen über die Fauna Peruana*.
JOHANN JACOB TSCHUDI (1818-1882).
Cheilotrema Tschudi, 13; orthotype C. FASCIATUM Tschudi.
Chætostoma (Heckel) Tschudi, 25; orthotype C. LOBORHYNCHUS Heckel. Said to be thus originally written by Heckel; spelled CHÆTOSTOMUS by Kner (1854) and by subsequent writers.
Discopyge Tschudi, 32; orthotype D. TSCHUDII Tschudi.
363. VALENCIENNES (1846). *Nouvelles observations sur l'Eremophilus*.
Recueil d'Observ. Zool., II.
ACHILLE VALENCIENNES.
Trichomycterus Valenciennes, 347; orthotype T. NIGRICANS Humboldt, 1811. Same as THRYCOMYCTERUS.

1847

364. BLEEKER (1847). *Siluroideorum bataviensium conspectus diagnosticus*.
Verh. Batav. Genootsch., XXI.
PIETER BLEEKER.
Ketengus Bleeker, 9; orthotype K. TYPUS Blkr.
Osteogeneiosus Bleeker, XXI, 49; orthotype O. MACROCEPHALUS Bleeker
Batrachocephalus Bleeker, XXI, 158, 375; orthotype B. MICROPOGON Blkr.
365. BLEEKER (1847). *Pharyngognathorum Siluroideorumque species nova Javanenses*. Nat & Geneesk. Arch. Neder.-Indie, IV.
PIETER BLEEKER.
Chærodon Bleeker, 10; orthotype LABRUS MACRODONTUS Lac. Replaces CHÆROPUS Rüppell, 1852; later written CHOIRODON.
366. BRISOUT DE BARNEVILLE (1847). *Note sur le genre Centropristis Cuvier*.
Rev. Zool.
CHARLES N. F. BRISOUT DE BARNEVILLE.
Homodon Brisout de Barneville, 133; logotype CENTROPRISTIS GEORGIANUS Cuv. & Val. A synonym of ARRIPIS Jenyns.
Myriodon Brisout de Barneville, 133; orthotype CENTROPRISTIS SCORPÆNOIDES Cuv & Val. = SCORPÆNA WAIGIENSIS Q. & G. A synonym of CENTROGENYS.

367. BRISOUT DE BARNEVILLE (1847). *Note sur un nouveau genre d'Anguilliformes*. Rev. Zool.

CHARLES N. F. BRISOUT DE BARNEVILLE.

Ichthyapus Brisout de Barneville, 219; orthotype *I. ACUTIROSTRIS* Barn. A synonym of *SPHAGEBRANCHUS* Bloch.

368. CUVIER & VALENCIENNES (1847). *Histoire naturelle des poissons*. XX. ACHILLE VALENCIENNES.

Sardinella Cuvier & Valenciennes, XX, 261; logotype *SARDINELLA AURITA* Val.

Harengula Cuvier & Valenciennes, XX, 277; logotype *HARENGULA LATULUS* Val. (said to be from France, but apparently an American species, not the French "Blanquette", which is reputed to be the sprat (*SPRATTELLA SPRATTUS*) *vide* Cligny).

Pellona Cuvier & Valenciennes, XX, 300; logotype *PELLONA ORBIGNYANA* Val. *PRISTIGASTER FLAVIPINNIS* Val. A synonym of *ILISHA* Gray (1846).

Rogenia Cuvier & Valenciennes, XX, 340; haplotype *ROGENIA ALBA* Val. Young of *CLUPEA* L. ("Whitebait").

Clupeonia Cuvier & Valenciennes, XX, 345; logotype *CLUPEONIA JUSSIEUI* Val. Very near *HARENGULA* Cuv. & Val.

Spratella Cuvier & Valenciennes, XX, 356; logotype *SPRATTELLA PUMILA* Val. Young of *CLUPEA SPRATTUS* L.

Kowala Cuvier & Valenciennes, XX, 362; logotype *KOWALA ALBELLA* Cuv. & Val. Very close to *CLUPEONIA*, if not identical with it.

Meletta Cuvier & Valenciennes, XX, 366; type *MELETTA VULGARIS* Val. (young of *SPRATTELLA SPRATTUS*). A synonym of *SPRATTELLA* Cuv. & Val.

Alausa Cuvier & Valenciennes, XX, 389; type *ALAUSA VULGARIS* = *CLUPEA ALOSA* L. A variant spelling of *ALOSA* Cuv.

Dussumieria Cuvier & Valenciennes, XX, 467; haplotype *DUSSUMIERIA ACUTA* Val.

369. EGERTON (1847). *On the Nomenclature of the Fossil Chimæroid Fishes*. Quart. Journ. Geol. Soc., III.

PHILIP DE MALPAS GREY EGERTON

Dictyopyge Egerton, III, 276; orthotype *CATOPTERUS MACRURUS* Egert. (fossil).

Ischypterus Egerton, III, 277; orthotype *F. LATUS* Egert. (fossil). A synonym of *SEMIONOTUS*.

370. GIEBEL (1847). *Vier neue Fische aus dem dunkeln Kreide-Schiefer von Glarus*. Neues Jahrb. Mineral.

CHRISTOPH GOTTFRIED ANDREAS GIEBEL (1820-1881).

Palymphyes Giebel, 666; logotype *P. CRASSIUS* Giebel.

Pachygaster Giebel, 667; orthotype *P. SPINOSUS* Giebel (fossil).

371. GIEBEL (1847) *Fauna der Vorwelt . . . monographisch dargestellt*

CHRISTOPH GOTTFRIED ANDREAS GIEBEL.

Centrodus Giebel, 344; orthotype *C. ACUTUS* Giebel (fossil).

Chilodus Giebel, I, 352; orthotype (not named in Woodward). A tooth of dubious nature.

Oxytes Giebel, 364; orthotype *O. OBLIQUA* Giebel (fossil). A fossil homologue of *CARCHARIAS* Raf., *ODONTASPIS* Ag.

372. GUICHENOT (1847). *Notice sur un nouveau genre de Percoides (Pomanotis)*. Rev. Zool., X.

ALPHONSE GUICHENOT.

Pomanotis Guichenot, 390; orthotype *P. RUBESCENS* Guich. A genus not since recognized. The type *P. RUBESCENS* was brought by Dussumier from Alipey,* a locality I do not find on the maps, but evidently in India or eastward. The genus is not related to EUCENTRARCHIDÆ, as its author suggests, but belongs probably to the NANDIDÆ (D. XIV, 14. A III, 9) near PRISTOLEPIS (CATOPRA).

373. KNER (1847). *Ueber die beiden Arten Cephalaspis lloydi und C. lewisii Agassiz, und einige diesen zunächst stehenden Schalenreste*. Naturwiss. Abh., I.

RUDOLF KNER.

Pteraspis Kner, I, 165; orthotype CEPHALASPIS LEWISI Ag. (fossil).

374. MEYER (1847). *Palæontographica*.

HERMANN VON MEYER.

Tylodus Meyer, I, 102; orthotype *T. GLABER* Meyer (fossil).

375. MEYER (1847). *Vorläufige Uebersicht der in dem Muschelkalk Oberschlesiens vorkommenden Saurier, Fische, Crustaceen und Echinodermen, nach der Sammlung des Herrn Mentschel in Königshütte*. Uebersicht Schles. Ges. Breslau.

HERMANN VON MEYER.

Omphalodus Meyer, 574; orthotype *O. CHORZOWENSIS* Meyer (fossil). A synonym of ASTERODON.

376. PLIENINGER (1847). *Microlestes antiquus und Sorgodon tomicus in der Grenzenbrücke des Keupers von Degerloch*. Jahresschr. Ver. Vaterl. Naturk. Württemberg.

WILHELM HEINRICH THEODOR VON PLIENINGER.

Sargodon Plieninger, III, 165; orthotype *S. tomicus* Plieninger (fossil).

377. WOOD (1847). *Description of a Species of Shark (Leiodon echinatum)*. Proc. Boston Nat. Hist. Soc., II.

WILLIAM WOOD.

Leiodon Wood, 174; orthotype *L. ECHINATUM* Wood. Name preoccupied; a synonym of SOMNIOSUS Lc Sueur.

1848

378. AGASSIZ (1848). *Two New Fishes from Lake Superior, Percopsis and Rhinichthys*. Proc. Boston Soc. Nat. Hist., III.

LOUIS AGASSIZ.

Percopsis Agassiz, 80; haplotype PERCOPSIS GUTTATUS Ag. = SALMO OMISCOMAYCUS Walbaum (1792). Also in *Lake Superior*, 1850, 284.

Rhinichthys Agassiz, 80; haplotype CYPRINUS ATRONASUS Mitchill. Also in *Lake Superior*, 1850, 353.

* Alipey is probably the same as Alleppi or Allapalli, a seaport of Travancore in southern India, 33 miles south of Cochin.

379. BEYRICH (1848). *Ueber Xenacanthus decheni und Holacanthodes gracilis, zwei Fische aus der Formation des Rothliegenden in Nord-Deutschland.* Archiv. f. Mineral., XXII.

HEINRICH ERNST BEYRICH (1815-1896).

Xenacanthus Beyrich, 24; orthotype ORTHACANTHUS DECHENI Goldfuss (fossil). Regarded as a synonym of ORTHACANTHUS Ag. (PLEURACANTHUS).

Holacanthodes Beyrich, 24; orthotype H. GRACILIS Beyr. (fossil). A synonym of ACANTHOESSUS and of ACANTHODES.

380. BLEEKER (1848). *A Contribution to the Ichthyology of Sumbawa.* Journ. Ind. Arch. IX, 1848.

PIETER BLEEKER.

Heterognathodon Bleeker, 1, 101; orthotype H. BIFASCIATUS Blkr., a substitute for HETERODON, preoccupied. A synonym of PENTAPUS Cuv. & Val.

381. CUVIER & VALENCIENNES (1848). *Histoire naturelle des poissons.* XXI. ACHILLE VALENCIENNES.

Fario Cuvier & Valenciennes, XXI, 277; tautotype SALMO FARIO L. = SALMO ARGENTUS Val. Same as TRUTTA L., a subgenus of SALMO.

Salar Cuvier & Valenciennes, XXI, 314; type SALAR AUSONII Val., a form or ally of SALMO FARIO L. A synonym of FARIO Val. and TRUTTA L.

382. DANA (1848). *Fossils of the Exploring Expedition Under the Command of Charles Wilkes, U. S. N.; a Fossil Fish from Australia, and a Belemnite from Tierra del Fuego.* Amer. Journ. Sci., V.

JAMES DWIGHT DANA (1813-1895).

Urosthenes Dana, V, 433; orthotype U. AUSTRALIS Dana (fossil).

383. EWALD (1848). *Ueber Menaspis, eine neue fossile Fischgattung.* Ber. Akad. Wiss. Berlin.

AUGUST EWALD.

Menaspis Ewald, 83; orthotype M. ARMATA Ewald (fossil).

384. GIEBEL (1848). *Die Fische der Vorwelt in seiner Berücksichtigung der lebenden Fische.*

CHRISTOPH GOTTFRIED ANDREAS GIEBEL.

Tharsis Giebel, 145; orthotype T. GERMARI Giebel (fossil). A synonym of LEPTOLEPIS.

Asima Giebel, 184; orthotype A. JUGLERI Giebel (fossil). A synonym of RADAMAS Munster.

Elonichthys Giebel, 249; logotype E. GERMARI Giebel (fossil).

385. GISTEL (1848). *Naturgeschichte des Thierreichs für höhere Schulen.* JOHANNES GISTEL.

A remarkable dull and confused publication, not hitherto noticed by ichthyologists. Gistel speaks feelingly of his "höchst muhsamer Vergleichung, zeitraubenden Nachschlagens, in vielen hundert Werken, etc., aus meinen Manuscripten aufzuführen". It is not often that so fatiguing a piece of work presents itself in such a crabbed form. Gistel insists that personal names of genera are allowable only in Botany and in the lowest classes of animals ("den niedrigsten Thierklassen").

The following may replace names actually preoccupied:

ABRON instead of PLATYSTOMA

DAPALIS instead of SMERDIS.
 ENIXE instead of DREPANE.
 HYPODYTES instead of PARACENTROPOGON.
 NOTACMON instead of EURYNOTUS.
 ODONUS instead of XENODON (ERYTHRODON).
 PERIURGUS instead of MICROPS.
 PROSCINETES instead of MICRODON.
 SECUTOR instead of DEVEXIMENTUM.
 STREPHON instead of BRONTES.
 STROTES instead of PLATYSOMUS.

The following are also admissible if a name differing in gender or slightly in form but from the same roots as an earlier name is to be rejected as preoccupied:

ANALITHIS instead of PLATYRHINA.
 ALAZON instead of PÆCILIA.
 ENGLOTTOGASTER instead of OREINUS.
 FURO instead of EUGNATHUS.
 MYRMILLO instead of MUSTELUS.
 PRENES instead of SCATOPHAGUS.
 RHADAMISTA instead of CTENODUS.
 SCROPHA instead of CERATODUS.
 PEDITES instead of MACROPODUS.

The twice preoccupied name of *UNDINA* Gistel, IX, is offered as a substitute for *LINKIA* Nardo, said to be a fish, *LINKIA TYPUS* Nardo, preoccupied by *LINCKIA* Ag., a genus of ECHINODERMS, for which he offers the substitute name of *CATANTES*. But both *LINKIAS* are starfishes and neither a fish. Another generic name, *PHYGAS* Gistel, X, is proposed in place of *POLIA* (Della Chiaje, *Isis*, 1832, 647, *SCIENA*), said to be preoccupied in worms, by *POLIA* Grube, which genus Gistel renames *CYRYX*. But I am informed by Mr. Bean that *POLIA SIPUNCULUS* Della Chiaje is itself a worm also, not a fish.

- Carcharias** Gistel, VIII; type *SQUALUS ACANTHIAS* L.; substitute for *ACANTHIAS* Risso, regarded as preoccupied by *ACANTHIA*. *CARCHARIAS* was already twice preoccupied. A synonym of *SQUALUS* L., as restricted.
- Pelonectes** Gistel, VIII; type (*ACANTHOËSSUS BRONNI* Ag.). Substitute for *ACANTHODES* Ag. (1833), wrongly said to be preoccupied in crustacea (Serville, 1835). A synonym of *ACANTHOËSSUS* Ag. (1832).
- Gremilla** Gistel, VIII; type (*PERCA CERNUA* L.). A substitute for *ACERINA* Cuv.; but *CERNUA* Schäfer and *ACERINA* Gildenstädt, as well as *GYMNOCEPHALUS* Bloch & Schneider are still older than *GREMILLA*.
- Adiapneustes** Gistel, VIII; type (*ACRODUS GAILLARDOTI* Ag.). A substitute for *ACRODUS* Ag. (1838), wrongly regarded as preoccupied by *ACRODON* Zimmermann (1840).
- Histiodromus** Gistel, VIII; type (*SALMO ANOSTOMUS* L.). Name a substitute for *ANASTOMUS* Gronow, Scopoli, Cuvier. All these writers have priority over *ANASTOMUS* Illiger (1835), a genus of birds. The name has often been written *ANOSTOMUS*.
- Nomalus** Gistel, VIII; type *LONCHURUS ANCYLODON* Bl. & Schn. (*A JACULIDENS* Cuv. & Val.) Substitute for *ANCYLODON*, preoccupied. A synonym of *MACRODON* Schinz (1822).

Hypodytes Gistel, VIII; orthotype "ASPISTES Q. & G.", which is *APISTUS LONGISPINIS* Cuv. & Val. The name is a substitute for *APISTES* ("ASPISTES") regarded as preoccupied.

As the species of Quoy & Gaimard (1834) (*LONGISPINIS*) is the type of *PARACENTROGON* Blkr., *HYPODYTES* may supersede that name, rather than replace it by *PROSOPODASYS* Cantor (1849). Gistel offers *HYPODYTES* as a substitute for "ASPISTES Quoy, *Astrolabe Fische*," although *APISTES* occurs in the *Règne Animal*, 1829 (Index), and *APISTUS* in *Cuv. & Val.*, IV, also in 1829, in the latter part of the same year. As *HYPODYTES* is expressly used to replace *ASPISTUS* (not *ASPISTES*) of Quoy & Gaimard and as the chief species figured by those authors is *A. LONGISPINIS*, the type of the later genus *PARACENTROGON*, *HYPODYTES* may replace the latter, if *APISTES* or *APISTUS* is deemed occupied.

Scrofaria Gistel, VIII; orthotype *AUSONIA CUVIERI* Risso. Name an unexplained substitute for *AUSONIA*; a synonym of *LUVARUS* Raf.

Gliscus Gistel, VIII; type (*BLOCHIIUS LONGIROSTRIS* Volta) (fossil). A substitute for *BLOCHIIUS*, a personal name.

Strephon Gistel, VIII; orthotype (*BRONTES PRENADILLA* (Cuv. & Val.). A substitute for *BRONTES* Cuv. & Val. several times preoccupied.

Thalassoklephtes Gistel, VIII; orthotype (*CANINOA CHIEREGHINI* Nardo). A substitute for *CANINOA* Nardo, as a genus unworthy of a prince: "Ist denn der Prinz von Canino mit einem HAYEN vergleichbar?"

Scrophia Gistel, VIII; type (*CERATODUS LATISSIMUS* Ag.) (fossil). A substitute for *CERATODUS*, regarded as preoccupied by *CERATODON* Brisson.

Capellaria Gistel, VIII; type (*LOPHIUS COMMERTSONIANUS* Lac.). Substitute for *CHIRONECTES* Cuv., preoccupied. A synonym of *ANTENNARIUS* Cuv.

Cæso Gistel, VIII; type (*SPARUS BERDA* Forskål). A substitute for "CHRYSOPHYRUS Ruppell" (*BERDA*). A synonym of *SPARUS* L. as understood by me.

Cerdo Gistel, VIII; type (*GADUS CALLARIAS* L.) as here restricted. CERDO is offered as a substitute for "ASELLUS Klein." But Klein does not accept *ASELLUS* as a generic name, but discusses its application to various cod-like fishes. He refers to "CERDONES" in a discussion of dried codfish. We may therefore regard *CERDO* Gistel as a synonym of *GADUS* L.

Echemythes Gistel, VIII; type (*ZEUS LUNA* Gmelin). A substitute for *CHRYSTOSUS* Lac. A synonym of *LAMPRIS*.

Ronchifex Gistel, VIII; type (*HARPE RUFA* Lac.). substitute for *COSSYPHUS* Cuv., preoccupied; *BODIANUS* Bloch and *HARPE* Lac. are names still older for the same genus.

Rhadamista Gistel, VIII; type (*CTENODUS CRISTATUS* Ag.) (fossil). A substitute for *CTENODUS* Ag. (1838) regarded as preoccupied by *CTENODON* Wagner (1830).

Pirene Gistel, IX; type (*CHLÆTODON ARVANUS* L.) Substitute for *DASCYLLUS*; preoccupied as *DASCILLUS*; *PIRENE* is itself preoccupied and gives way to *TETRADRACHMUM* Cantor, 1849.

Enixe Gistel, IX; type (*CHLÆTODON PUNCTATUS* L.). A substitute for *DREPANE* Cuv., regarded as preoccupied by *DREPANE* or *DREPANA* Schranck. It has priority over *HARPOCHIRUS* Cantor (1849).

Secutor Gistel, IX; orthotype *SPARUS INSIDIATOR* (Bloch). A substitute for *EQUULA* Cuv., but with a different type. Has priority over *DEVEXIMENTUM* Fowler, if this subgenus is distinct from *LEIOGNATHUS* Lac.

- Furo** Gistel, IX; type (*EUGNATHUS ORTHOSTOMUS* Ag. fossil). Substitute for *EUGNATHUS* Ag. regarded as preoccupied by *EUGNATHA*, a genus of spiders.
- Notacmon** Gistel, IX; type (*EURYNOTUS CRENATUS* Ag. fossil). Substitute for *EURYNOTUS* Ag., preoccupied by a genus of beetles (Kirby, 1817).
- Podager** Gistel, IX; logotype *GERRES WAIGIENSIS* Q. & G. Name a substitute for *GERRES*, regarded as preoccupied by *GERRIS* Fabricius, a genus of insects. But *PODAGER* is itself preoccupied in birds, and if a new name is needed, it must give place to *CATOCHLENUM* Cantor (1849). But the root words, *GERRIS* and *GERRES*, are different.
- Synergus** Gistel, IX; orthotype (*MEGALURUS LEPIDOTUS* Ag. fossil). A substitute for *MEGALURUS* Ag. preoccupied in mammals, but *SYNERGUS* is preoccupied also by *SYNERGUS* Hartig, 1840, a genus of Hymenoptera, and *MEGALURUS* may be replaced by *UROCLES* Jordan as already indicated.
- Ellops** Gistel, IX, type (*ACIPENSER HELOPS* Pallas). A substitute for *HELOPS*, ἑλλοψ being the original Greek form.
- Apeches** Gistel, IX; logotype *JOHNIUS*, *CARUTTA* Bl. & Schn. A substitute for *JOHNIUS*, a name regarded as objectionable. In general Gistel offers a substitute for all personal names everywhere except among plants and the lowest animals.
- Neanis** Gistel, IX; type (*LABRUS JULIS* L.). Name a substitute for *JULIS* Cuv., regarded as preoccupied by *JULUS* L., a genus of myriapods. But the two names are of entirely distinct origin.
- Exoles** Gistel, IX; type (*SQUALUS NASUS* Bonnaterre). A substitute for *LAMIA* Bon., itself a synonym of *LAMNA* Cuv.
- Apepton** Gistel, IX; orthotype *LEPADOGASTER PIGER* Nardo. A needless synonym of *GOUANIA* Nardo, a personal name.
- Anepistomon** Gistel, IX; type (*LEPTORHYNCHUS CAPENSIS* Smith). A substitute for *LEPTORHYNCHUS* Smith, preoccupied. A synonym of *OPHISURUS*, as restricted.
- Spanius** Gistel, IX; type (*LEPTOSOMA ATRA* Nardo). Name a substitute for *LEPTOSOMA*, preoccupied; probably a synonym of *MONOCHIRUS* Raf. "Soglio bastardo".
- Encrotos** Gistel, IX; type *CYPRINODON VARIEGATUS* Lac. A substitute for *LEBIA* or *LEBIAS* Cuv. on account of the name *LEBIA* Latreille, 1802, an earlier name wrongly attributed to Bonaparte. But *LEBIA* Cuv. (later written *LEBIAS*) is a synonym of *CYPRINODON* Lac.
- Maina** Gistel, IX; type (*SPARUS CHÆRORHYNCHIUS* Bl. & Schn.). Name a substitute for *LETHRINUS* Cuv. unreasonably regarded as preoccupied by *LETHRUS* Fabricius, a genus of beetles.
- Massaria** Gistel, IX; type *CYCLOPTERUS LIPARIS* L. A needless substitute for *LIPARIS*, used in Botany.
- Pedites** Gistel, IX (*MACROPODUS VIRIDIAURATUS* Lac.). Name a substitute for *MACROPODUS* Lac. corrected by Günther as *MACROPUS*, in that form preoccupied by *MACROPUS* Thunberg, a genus of beetles. Perhaps to be adopted as the roots are the same and *MACROPODUS* an incorrect form.
- Paschalestes** Gistel, IX; type (*MACQUARIA AUSTRALASICA* Cuv. & Val. Substitute for *MACQUARIA* Cuv. & Val., rejected, as a personal name.
- Englottogaster** Gistel, IX; type *OREINUS GUTTATUS* McCl. Substitute for *OREINUS* McCl., regarded as preoccupied in beetles as *OREINA*. But the generic value of *OREINUS* is doubtful.

- Proscinetes** Gistel, X; type *MICRODON ELEGANS* Ag. (fossil). Substitute for *MICRODON* Ag., preoccupied; replaces *POLYPSEPHIS* Hay, 1809, which is also a substitute for *MICRODON*.
- Periergus** Gistel, X; type *MICROPS FURCATUS* Ag. (fossil). A substitute for *MICROPS* Ag., preoccupied in beetles.
- Arnion** Gistel, X; type (*MUGIL CEPHALUS* L.). A substitute for *MUGIL* L. for no assigned reason.
- Myrmillo** Gistel, X; orthotype *MUSTELUS VULGARIS*. A substitute for *MUSTELUS* Cuv., regarded as preoccupied by *MUSTELA* L. Same as *PLEURACROMYLON* Gill.
- Analithis** Gistel, X; orthotype *PLATYRHINA SINENSIS* (Bl. & Schn.). Substitute for *PLATYRHINA* M. & H., regarded as preoccupied by *PLATYRHINUS*, replaced by *DISCOBATUS* Garman (1881).
- Strotes** Gistel, X; type (*STROMATEUS GIBBOSUS* Blainv.). Name a substitute for *PLATYSOMUS* Ag. preoccupied by a genus of beetles.
- Abron** Gistel, X; orthotype *SILURUS LIMA* Ag. A substitute for *PLATYSTOMA* Ag., 1829, preoccupied in insects.
- Plectrostoma** Gistel, X; type *OXYRHINA MANTELLI* Ag. (fossil). Substitute for *OXYRHINA* Ag., preoccupied. A synonym of *ISURUS* Raf.
- Euporista** Gistel, X; type *PLEURONECTES PLAGIUSA* L. A substitute for *PLAGUSIA* Bon., preoccupied; a synonym of *SYMPHURUS* Raf.
- Deportator** Gistel, X; type (*SILURUS ANGUILLARIS* Forskål). Name a substitute for *PLOTOSUS* Lac., needlessly regarded as preoccupied by *PLATUS* L.
- Alazon** Gistel, X; orthotype (*PÆCILIA VIVIPARA*). A substitute for *PÆCILIA* Cuv. & Val., regarded as preoccupied by *PÆCILUS* Bon., a beetle.
- Apodometes** Gistel, X; type (*PSAMMODUS RUGOSUS* Ag., fossil). A substitute for *PSAMMODUS* Ag. regarded as preoccupied by *PSAMMODIUS*, a genus of beetles, but the words are not from the same roots.
- Demiurga** Gistel, X; type (*RHINA ANCYLOSTOMA* Bl. & Schn.). A substitute for *RHINA* Bon., etc., regarded as preoccupied by *RHINA* Olivier (1807), a genus of beetles. But this genus of rays was called *RHINA* in 1801, by Bloch & Schneider. The same name was used by non-Linnæan writers in place of *SQUATINA*. For this purpose it was first binomially used in 1810. If *RHINA* is used for *SQUATINA*, *DEMIURGA* could replace it for this genus, instead of *RHAMPHOBATIS* Gill (1861).
- Prenes** Gistel, X; type (*CHÆTODON ARGUS* Bloch). Name a substitute for *SCATOPHAGUS* Cuv., regarded as preoccupied by *SCATOPHAGA*. Has priority over *CACODOXUS* Cantor, 1849.
- Agoreion** Gistel, X; type *ACANTHODERMA SPINOSUM* Ag. (fossil). Name a substitute for "*SCLERODERMA* Ag.", used in fungi, also as *SCLERODERMUS* in bees, but I find no *SCLERODERMA* in Agassiz. It was probably the preoccupied name, *ACANTHODERMA* Ag., which Gistel had in mind; for this *AGOREION* may perhaps be substituted.
- Creotroctes** Gistel, X; type *SCOMBER SARDA* L. Name an unexplained substitute for *SARDA* Cuv. It is a synonym of *PALAMITA* Bon., offered in 1832 as a substitute for *PELAMYS* Cuv. & Val., 1831, which is the same as *SARDA* Cuv., 1829.
- Denius** Gistel, X; type (*SPARUS SARGUS* L.). Name a substitute for *SARGUS* Cuv., preoccupied. A synonym of *DIPLODUS* Raf.
- Borborodes** Gistel, X; type (*SQUALUS LICHIA* Cuv., *SQUALUS LICHIA* Bonnaterre). Substitute for *SCYMNUS* Cuv. preoccupied in beetles. A synonym of *SCYMNORHINUS* Bon., 1846.

- Dapalis** Gistel, XI; type (*PERCA MINUTA* Blainv.) (fossil). Name a substitute for *SMERDIS* Ag., 1833, preoccupied by *SMERDIS* Leach, a genus of beetles.
- Peroptera** Gistel, XI; said to be a fish and substituted for *PERIOPTERA* Gistel, "deleatur". I find no reference elsewhere to either name.
- Orthocolus** Gistel XI; type *SALMO THYMALLUS* L. Substitute for *THYMALLUS* Cuv., regarded as preoccupied by *THYMALLUS* Latr., 1803, a genus of beetles. But the root word is different. In any event, *CHOREGON* Minding has priority.
- Trompe** Gistel, XI, 109; type (*SCIÆNA JACULATRIX* Pallas). Name an unexplained substitute for *TOXOTES* Cuv.
- Aphobus** Gistel, XI; type (*TRACHIDERMIS FASCIATUS* Heckel). Name a substitute for *TRACHIDERMIS* Heckel preoccupied as *TRACHYDERMA*, etc., a synonym of *CENTRIDERMICHTHYS* Rich., 1844.
- Chætichthys** Gistel, XI; type (*TRACHINUS TRICHODON* Steller). Name a substitute for *TRICHODON* Cuv., deemed preoccupied by *TRICHODA* and *TRICHODES*, but the root meaning is different.
- Lithulcus** Gistel, XI; type (*TRICHOPODUS MENTUM* Lac.). Substitute for *TRICHOPODUS* (*TRICHOPUS*) (Lac.) Cuv. & Val.; used also in botany. The oldest use of the name in Zoology is that of Lacépède, 1802 (III, 125), a genus of fishes already called (116) *OSPHRONEMUS* by the same author.
- Odonus** Gistel, XI; type (*BALISTES NIGER* Lac.). A substitute for *XENODON* Rüppell, preoccupied. *ODONUS* is prior to *ERYTHRODON* Rüppell, 1852, and to *PYRODON* Kaup. If *ZENODON* Sw. (1839) is regarded as eligible, not as a mere misprint, it will be preferred to *ODONUS*.
- Eudynama** Gistel, XIII, 108; orthotype (*SPARUS AURATA* L.). A substitute for *CHRYSOPTERYX* Cuv. A synonym of *SPARUS* L. as restricted.
- Eupnœa** Gistel, 105; orthotype *PLAGIUSA LACTEA* Bon. (*SYMPHURUS NIGRESCENS* Raf.). A synonym of *SYMPHURUS* Raf.
- Melantha** Gistel, 109; orthotype *SCIÆNA NIGRA* Gmelin, "die Seekrähe". A needless synonym of *CORVINA* Cuv.
- Attilus** Gistel, 109; orthotype *SCIÆNA (CIRRHOSA)* L., "der Schattenfisch". A needless synonym of *UMBRINA* Cuv.
386. GUICHENOT (1848). *Notice sur l'établissement d'un nouveau genre de Chétodons (Megaprotodon)*. Rev. Zool., XI.
ALPHONSE GUICHENOT.
- Megaprotodon** Guichenot 12; orthotype *CHÆTODON BIFASCIALIS* Cuv. & Val.
387. GUICHENOT (1848). *Peces de Chile*. (In Claudio Gay: *Historia física y política de Chilc.*)
ALPHONSE GUICHENOT.
- Boxaodon** (Guichenot) Gay, II, 208; orthotype *B. CYANESCENS* Guich. An ally of *EMMELICHTHYS* Rich.
- Mendosoma** (Guichenot) Gay, II, 212; logotype *M. LINEATUM* Guich.
- Seriotelella** (Guichenot) Gay, II, 238; orthotype *S. POROSA* Guich.
- Merlus** (Guichenot) Gay, II, 238; orthotype *M. GAYI* Guich. Apparently a variant of *MERLUCCIVUS*, of which it is a synonym.
388. HECKEL (1848). *Eine neue Gattung von Pacilich mit rochenartigem Anklammerungs-Organ (Xiphophorus)*. Sitzb. Akad. Wiss. Wein.
JOHANN JAKOB HECKEL.
- Xiphophorus** Heckel, I, 163; orthotype *X. HELLERI* Heckel.

389. JERDON (1848). *On the Fresh-water Fishes of Southern India*. Madras Journ. Lit. Sci., XV.

THOMAS CLAVERHILL JERDON (1811-1873).

- Pristolepis* Jerdon, XV, 141; orthotype *P. MARGINATUS* Jerdon. Replaces *CATOPRA* Blkr.

390. M'COY (1848). *On Some New Fossil Fish of the Carboniferous Period*. Ann. Mag. Nat. Hist., II.

FREDERICK M'COY.

- Isodus* M'CoY, 3; orthotype *I. LEPTOGNATHUS* M'CoY (fossil).

- Colonodus* M'CoY, II, 5; orthotype *C. LONGIDENS* M'CoY (fossil).

- Osteoplax* M'CoY, II, 6; orthotype *O. EROSA* M'CoY (fossil).

- 391 M'COY (1848). *On Some New Ichthyolites from the Scotch Old Red Sandstone*. Ann. Mag. Nat. Hist., II.

FREDERICK M'COY.

- Physonemus* M'CoY, II, 117; orthotype *P. ARCUATUS* M'CoY (fossil).

- Erismacanthus* M'CoY, II, 118; orthotype *E. JONESI* M'CoY (fossil).

- Asteroptychius* (Agassiz) M'CoY, II, 118; orthotype *A. ORNATUS* (Ag.) M'CoY (fossil). Name only, in *Poissons fossiles*, III, 176, 1843; made valid by M'CoY, 1848.

- Platyacanthus* M'CoY, II, 120; orthotype *P. ISOSCELES* M'CoY (fossil). Name preoccupied. A synonym of *ORACANTHUS* Ag.

- Polyrhizodus* M'CoY, II, 125; orthotype *P. MAGNUS* M'CoY (fossil).

- Glossodus* M'CoY, II, 127; logotype *G. LINGUA-BOVIS* M'CoY (fossil). Not *Glossodon* Raf.

- Climaxodus* M'CoY, II, 128; orthotype *C. IMERICATUS* M'CoY (fossil). A synonym of *JANASSA*.

- Cheirodus* M'CoY, II, 130; orthotype *C. PES-RANÆ* M'CoY (fossil).

- Petrodus* M'CoY, II, 132; logotype *P. PATELLIFORMIS* M'CoY (fossil).

- Tripterus* M'CoY, II, 306; orthotype *T. POLLENFENI* M'CoY (fossil). A synonym of *OSTEOLEPIS* Val. Name preoccupied; replaced by *TRIPLOPTERUS* M'CoY (1855).

- Gyroptychius* M'CoY, II, 307; orthotype *G. ANGUSTUS* M'CoY (fossil).

- Conchodus* M'CoY, II, 312; orthotype *C. OSTREIFORMIS* M'CoY (fossil).

392. MÜLLER (1848). (*Fossile Fische*.) *Reise in den äussersten Norden und Osten Sibiriens während der Jahr 1843-44*. Herausgegeben von A. Th. v. Middendorf, I.

JOHANNES MÜLLER.

- Lycoptera* Muller, I, 262; orthotype *L. MIDDENDORFI* Müller (fossil).

- 393 MÜLLER & TROSCHEL (1848). *Reisen in British-Guiana in den Jahren 1840-44*. (Im Auftrag Sr. Majestät des Königs von Preussen ausgeführt von Richard Schomburgk: *Versuch einer Fauna und Flora von British-Guiana*. (*Fische*.) III.)

JOHANNES MÜLLER; FRANZ HERMANN TROSCHEL.

- Acharnes* Muller & Troschel, III, 622; orthotype *A. SPECIOSA* M. & T.

- Polycentrus* Müller & Troschel, III, 622; orthotype *P. SCHOMBURGKI* M. & T.

- 394 RICHARDSON (1848). *Fishes: The Zoology of the Voyage of H.M.S. "Samarang"; Under the Command of Captain Sir Edward Belcher, During the years 1843-1846*.

JOHN RICHARDSON.

Choridactylus Richardson, 8; orthotype *C. MULTIBARBIS* Rich. Later spelled *CHORISMODACTYLUS*.

Sthenopus Richardson, 10; orthotype *S. MOLLIS* Rich. Name preoccupied; replaced by *TRICHOPELEURA* Kaup.

Podabrus Richardson, 11; logotype *P. CENTROPOMUS* Rich. Preoccupied in beetles; replaced by *VELLITOR* Jordan & Starks (1894).

Nemichthys Richardson, 25; orthotype *N. SCOLOPACEUS* Rich.

Aperioptus Richardson, 27; orthotype *A. PICTORIUS* Rich.

1849

395. AYRES (1849). *On a Very Curious Fish, for which the Name Malacosteus niger Is Proposed.* Journ. Bost. Soc. Nat. Hist.

WILLIAM O. AYRES.

Malacosteus Ayres, 53; orthotype *M. NIGER* Ayres.

396. BLEEKER (1849). *A Contribution to the Knowledge of the Ichthyological Fauna of Celebes.* Journ. Ind. Arch., III.

PIETER BLEEKER.

Apogonoides Bleeker, III, 70; orthotype *A. MACASSARIENSIS* Blkr. This forgotten genus is based on a species without teeth on the plate; with the preopercle entire, no opercular spines: D. VI-1, 9; caudal bilobed. *APOGONOIDES* seems to differ from the later *APOGONICHTHYS* only in the presence of 6, not 7, dorsal spines and in the bilobed caudal.

Amblygaster Bleeker, 70; orthotype *A. CLUPEOIDES* Blkr. A synonym of *SARDINELLA* Cuv. & Val. The true sardines (*SARDINIA* Poey) are well distinguished from *SARDINELLA* externally by the strong concentric grooves on the opercles.

Dipterygonotus Bleeker, 70; orthotype *D. LEUCOGRAMMICUS* Blkr. An ally or synonym of *EMMELICHTHYS* Rich.

Pogonognathus Bleeker, III, 73; orthotype *P. BARBATUS* Blkr. = *ANACANTHUS BARBATUS* Gray. A synonym of *PSILOCEPHALUS* Sw.

397. BLEEKER (1849). *Overzicht der te Batavia voorkomende Gladschubbige Labroïden, met beschrijving van 11 nieuwe soorten.* Verh. Bat. Gen. XXII, 1849, 1-64.

PIETER BLEEKER.

Scarus (Forskål) Bleeker XII, 3; orthotype *LABRUS CRETENSIS* L. (not *SCARUS* Forskål). A synonym of *SPARISOMA* Sw.

398. BLEEKER (1849). *Bijdrage tot de kennis der Percoiden van den Malayo-Molukschen Archipel, met beschrijving van 22 nieuwe soorten.* Verh. Batav. Genootsch., XXII.

PIETER BLEEKER.

Mulloidés Bleeker, 12; orthotype *MULLUS FLAVOLINEATUS* Lac.

Upeneoides Bleeker, 63; orthotype *MULLUS VITTATUS* Forskål

399. BLEEKER (1849). *Bijdrage tot de kennis der Blennioïden en Gobioiden van den Soenda-Molukschen Archipel, met beschrijving van 42 nieuwe soorten.* Verh. Batav. Genootsch., XX.

PIETER BLEEKER.

Philypnoides Bleeker, XXIII, 19; orthotype *P. SURAKARTENSIS* Blkr. (Young of *OPHICEPHALUS GACHUA* Ham.) A synonym of *OPHICEPHALUS* Bloch.

400. BLEEKER (1849). *Bijdrage tot de kennis der ichthyologische fauna van het eiland Madura, met beschrijving van eenige nieuwe species*. Verh. Batav. Genootsch., XXII.

PIETER BLEEKER.

Leptonurus Bleeker, XXII, 14; orthotype *L. CHRYSOSTIGMA* Blkr. A synonym of *COILIA* Gray.

Hippichthys Bleeker, XXII, 15; orthotype *H. HEPTAGONUS* Blkr. (not *HIPPOCAMPUS HEPTAGONUS* Raf.). Probably the same as *CORYTHOICHTHYS* Kaup and of earlier date.

Anodontostoma Bleeker, XXI, 15; orthotype *A. HASSELTII* Blkr. = *CHATOËSSUS CHACUNDA* Cuv. & Val.; replaces *GONOSTOMA* Van Hasselt, 1823, preoccupied.

401. BLEEKER (1849). *Bijdrage tot de kennis der ichthyologische fauna van het eiland Bali, met beschrijving van eenige nieuwe species*. Verh. Batav. Genootsch., XXII.

PIETER BLEEKER.

Stomianodon Bleeker, XXII, 10; orthotype *S. CHRYSOPHEKADION* Blkr. A synonym of *ASTRONESTES* Rich.

402. CANTOR (1849). *Catalogue of Malayan Fishes*. Journ. Roy. Asiat. Soc. Bengal, XVIII (1849). Reprinted as a separate volume, 1850.

THEODORE EDWARD CANTOR.

Genyorange Cantor, 12; logotype *DIACOPE* SEB.E. Name a substitute for *DIACOPE* Cuv. & Val., preoccupied.

Prosopodasys Cantor, 44; orthotype *APISTUS ALATUS* Cuv. A substitute for *APISTUS* Cuv., regarded as preoccupied by *APISTA*, hence must retain the same type. *PTERICHTHYS* Sw., 1839, has priority over *PROSOPADASYS*.

Corythobatus Cantor, 45; orthotype *APISTUS MINOUS* Cuv. & Val. = *MINOUS MOORA* Cuv. & Val. Substitute for *MINOUS*, regarded as preoccupied by *MINOËS*.

Spondyliosoma Cantor, 50; orthotype *SPARUS CANTHARUS* L. Substitute for *CANTHARUS* Cuv., preoccupied.

Catochænum Cantor, 55; orthotype *GERRES WAIGENSIS* Cuv. & Val. Substitute for *GERRES*, unnecessarily regarded as preoccupied by *GERRIS*, a genus of insects. *PODAGER* Gistel (1848), also a substitute for *GERRES*, is preoccupied. I think that *GERRES* should hold.

Ilarches Cantor, 100; orthotype *CHÆTODON ORBIS* Bloch. Substitute for *EPHIPPIUS* Cuv., regarded as preoccupied by *EPHIPPIUM*.

Diphreutes Cantor, 159; orthotype *CHÆTODON MACROLEPIDOTUS* L., replacing *HENIOCHUS* Cuv. (1817), regarded as preoccupied by *HENIOCHE*, 1816.

Harpochirus Cantor, 162; orthotype *CHÆTODON PUNCTATUS* Gmelin. Same as *ENIXE* Gistel, 1848, an earlier substitute for *DREPANE* Cuv., regarded as preoccupied by *DREPANA*, *DREPANIA*, *DREPANIS* and *DREPANIUS*.

Cacodoxus Cantor, 163; orthotype *CHÆTODON ARGUS* Gmelin. Same as *PRENES* Gistel, 1848. Substitute for *SCATOPHAGUS* Cuv. & Val. regarded as preoccupied by *SCATOPHAGA*.

Cannorhynchus Cantor, 211; orthotype *FISTULARIA TABACARIA* L. A synonym of *FISTULARIA*.

Synaptura Cantor, 222; logotype *PLEURONECTES COMMERSONIANUS* Lac., as restricted by Bleeker.

Tetradrachmum Cantor, 240; logotype *CHÆTODON ARUANUS* L. Same as *PIRENE* Gistel (1848). A substitute for *DASCYLLUS* Cuv., regarded as preoccupied by *DASCILLUS* and often spelled *DASCILLUS*.

Prionace Cantor, 399; logotype *SQUALUS GLAUCUS* L. Substitute for *PRIONODON* M. & H., preoccupied.

Rhachinotus Cantor, 422; orthotype *RAJA AFRICANA* Bl. & Schn. A substitute for *ANACANTHUS* Ehrenb., 1837, preoccupied. A synonym of *UROGYMNUS* M. & H.

Stoasodon Cantor, 434; orthotype *RAJA NARINARI* Euphrasen. Substitute for *AËTOBATIS* as restricted by Müller & Henle, the proper type of *AËTOBATIS* Blainv. being regarded by tautonymy as *RAJA AQUILA* L.

403. CUVIER & VALENCIENNES (1849). *Histoire naturelle des poissons*. XXII.

ACHILLE VALENCIENNES.

Parodon Cuvier & Valenciennes, XXII, 50; haplotype *PARODON SUBORBITALE* Val.

Brycinus Cuvier & Valenciennes, XXII, 157; haplotype *BRYCINUS MACROLEPIDOTUS* Val.

Piabucina Cuvier & Valenciennes, XXII, 161; haplotype *PIABUCIANA ERYTHRINOIDES* Val.

Distichodus Cuvier & Valenciennes, XXI, 172; haplotype *SALMO NEFASCH* Lac. = *SALMO NILOTICUS* Hasselquist.

Tometes Cuvier & Valenciennes, XXII, 225; logotype *TOMETES TRILOBATUS* Val. A synonym of *MYLEUS* M. & T.

Mylesinus Cuvier & Valenciennes, XXII, 234; haplotype *MYLESINUS SCHOMBURGI* Val.

Chalcinus Cuvier & Valenciennes, XXII, 258; logotype *CHALCINUS BRACHYFOMUS* Val.

Cynopotamus Cuvier & Valenciennes, XXII, 317; logotype *HYDROCYON ARGENTUS* Val.

Saurida Cuvier & Valenciennes, XXII, 499; logotype *SALMO TUMBIL* Bloch.

Farionella Cuvier & Valenciennes, XXII, 507; haplotype *FARIONELLA GAYI* Val. A synonym of *APLOCHITON* Jenyns (1842).

404. GERMAR (1849). *Steinkohle Wittenbergs*.

ERNST FRIEDRICH GERMAR (1786-1853).

Styracodus Gernar, 70; orthotype *CENTRODUS ACUTUS* Giebel (fossil). A synonym of *CENTRODUS*.

405, 406. GIEBEL (1849). *Fauna der Vorwelt*.

CHRISTIAN GOTTFRIED ANDREAS GIEBEL.

Asima Giebel, 184; orthotype *RADAMAS JUGLERI* Münster. A synonym of *RADAMAS*.

407. HECKEL (1849). *Abhandlung über eine neue fossile Fischgattung, Chirocentrites, und die ersten Ueberreste eines Siluroiden aus der Vorwelt*. Sitzb. Akad. Wiss. Wien, II.

JOHANN JAKOB HECKEL.

Chirocentrites Heckel, I, 18; logotype *C. MICRODON* Heckel (fossil). A synonym of *THIRISSOPS*.

408. HECKEL (1849). *Ichthyologie (von Syrien)*. In Russegger, Joseph von, *Reisen in Europa, Asien und Africa, mit besonderer Rücksicht auf die naturwissenschaftlichen Verhältnisse der betreffenden Länder unternommen in den Jahren 1835 bis 1841*, etc. II, part 3. (To this part Dean assigns the date 1843.)

Isodus Heckel, II, 342; orthotype *I. SULCATUS* Heckel (fossil). A synonym of *ENCHODUS* Ag.

Pycnosterina Heckel, II, 337; orthotype *P. RUSSEGGERTI* Heckel (fossil).

409 HOEVEN, VAN DER (1849). *Handboek der dierkunde; tweede verbeterde uitgave; met bijvoegsels en aanmerkingen door Leuckart*. Amsterdam.

JANUS VAN DER HOEVEN (1802-1868).

Pteronemus Van der Hoeven, II, 177; orthotype *CHEILODACTYLUS FASCIATUS* Lac. A synonym of *CHEILODACTYLUS*.

Sphyrna Van der Hoeven, II; type *SQUALUS ZYGÆNA* L. Emendation of *SPHYRNA* Raf.

410. JORDAN (1849). (*Triodus*.) Neues Jahrb. von Mineralogie.
AUGUST JORDAN.

Triodus Jordan, 843; orthotype *T. SESSILIS* Jordan. *PLEURACANTHUS DECHENI* (fossil). A synonym of *ORTHACANTHUS* (*PLEURACANTHUS*).

411 M'COY (1849). *On Some New Fossil Fish of the Carboniferous Period*.
Ann. Mag. Nat. Hist., ser. II.

FREDERICK M'COY.

Centrodus M'Coy, II, 3; orthotype *C. STRIATULUS* M'Coy (fossil). Same as *MEGALICHTHYS* Ag., 1844, not of 1838.

412. MEYER (1849). *Fische, etc., aus dem Muschelkalk Ober-Schlesiens*.
Palæontographica, I.

HERRMANN VON MEYER.

Palæobates Meyer, I, 234; orthotype *PSAMMODUS ANGUSTISSIMUS* Ag. (fossil).

413 MÜLLER & TROSCHEL (1849). *Horæ Zoologicæ. Beschreibung und Abbildung neuer Fische*. III.

JOHANNES MÜLLER; FRANZ HERMANN TROSCHEL.

Sciades Muller & Troschel, III, 6; logotype *SCIADES PICTUS* M. & T.

Eutropius Muller & Troschel, III, 6; logotype *HYPOPTHALMUS NILOTICUS* Ruppell.

Citharinus Muller & Troschel, III, 8; logotype *SERRASALMO CITHARINUS* Cuv.
SALMO UNIMACULATUS Bloch.

Hemiodus Muller & Troschel, III, 9; logotype *ANODUS CRENIDENS* M. & T.
SALMO UNIMACULATUS Bloch.

Ariodes Muller & Troschel, III, 9; logotype *ARIODES ARENARIUS* M. & T.

Erethistes Muller & Troschel, III, 12; orthotype *E. PUSILLUS* M. & T.

Carapus (Cuvier) Muller & Troschel, III, 13; logotype, restricted by Eigenmann, to *FASCIATUS* Pallas. *GYMNOTUS CARAPO* L. (*CARAPES* Cuv., but not of Rafinesque). A synonym of *GYMNOTUS* L.

Sternopygus Muller & Troschel, III, 13; orthotype *GYMNOTUS MACRURUS* Bl. & Schn.

Rhamphichthys Muller & Troschel, III, 15; orthotype *GYMNOTUS ROSTRATUS* L.

Cnidon Muller & Troschel, III, 21; orthotype *C. CHINENSIS* M. & T. *LABRAN WAIGIENSIS* Cuv. & Val. A synonym of *PSAMMOPERCA* Rich.

Cichlops Muller & Troschel, III, 24; orthotype *C. MICROPTHALMUS* M. & T. Name preoccupied; replaced by *DAMPFERIA* Castelnau, 1875, or by *LABRACINUS* Schlegel, 1875.

Caprophonus Muller & Troschel, III, 28; orthotype *C. AURORA* M. & T. *ANTI-IONIA CAPROS* Lowe. A synonym of *ANTIGONIA* Lowe.

- 413A. NEWMAN (1849). (*Devil Fish.*) The Zoologist.
EDWARD NEWMAN.

Brachioptilon Newman, 74; orthotype *B. HAMILTONI* Newman. A synonym of *MANTA* Bancroft.

414. REID (1849). *An Account of a Specimen of the Vaagmar . . . Thrown Ashore in the Firth of Forth.* Ann. Mag. Nat. Hist., III.
JOHN REID.

Vogmarus Reid, III, 456; orthotype *BOGMARUS ISLANDICUS* Bl. & Schn. A substitute for *BOGMARUS*, both names synonyms of *TRACHIPTERUS* Gouan.

415. REINHARDT (1849). *Nye sydamerikanske ferskvandsfiske.* Vidensk. Meddel-Naturh. Foren. Kjöbenhavn.
JOHANN THEODOR REINHARDT (1816-1882).

Hydropardus Reinhardt, 46; orthotype *H. RAPAX* Reinh. = *RAPHIODON VULPINUS* Ag. A synonym of *RAPHIODON*.

416. SISMONDA (1849). *Descrizione dei pesci e dei crustacei fossili nel Piemonte.* Mem. Reale Accad. Sci. Torino, ser. X.
EUGENIO SISMONDA.

Trigonodon Sismonda, 25; orthotype *T. OWENI* Sismonda (fossil).

417. SMITH (1849). *Illustrations from the Zoology of South Africa; Consisting Chiefly of Figures and Descriptions of Objects of Natural History Collected During an Expedition into the Interior of South Africa in 1834-36.*
ANDREW SMITH.

Leptorhynchus Smith, pl. 6; orthotype *L. CAPENSIS* Smith. A synonym of *OPHIURUS* Lac., as restricted.

Cheilobarbus Smith, pl. 10; logotype *BARBUS CAPENSIS* Smith.

Pseudobarbus Smith, pl. 11; orthotype *BARBUS BURCHELLI* Smith.

Abrostomus Smith, pl. 12; logotype *A. UMBRATUS* Smith.

Tilapia Smith; orthotype *CHROMIS NILOTICA* Cuv. & Val. Replaces *CHROMIS* Gthr., not of Cuvier.

Atimostoma Smith, XXIV; orthotype *A. CAPENSE* Smith. A synonym of *PSENES* Cuv. & Val.

Rhineodon Smith, pl. 26; orthotype *R. TYPICUS* Smith. Misprinted *RHINCODON*; often written *RHINODON*.

Xiphiurus Smith; orthotype *X. CAPENSIS* Smith. Name preoccupied as *XIPHIURA*, a synonym of *GENYPTERUS* Philippi.

418. THIOLLIÈRE (1849). *Un nouveau gisement de poissons fossiles dans le Jura du département de l'Ain.* Ann. Soc. Agric. Lyons, I.
VICTOR JOSEPH DE L'ISLE THIOLLIÈRE (1801-1859).

Spathobatis Thiollière, I, 63; orthotype *S. BUGESIACUS* Thiollière (fossil). A synonym of *AELOPOS* Münster.

419. WILLIAMSON (1849). *On the Microscopic Structure of the Scales and Dermal Teeth of Some Ganoid and Placoid Fishes.* Phil. Trans. Roy. Soc. London.

WILLIAM CRAWFORD WILLIAMSON.

Pholidotus Williamson, 444; orthotype *P. LEACHI* Williamson (fossil). A synonym of *DAPEDIUM* Leach.

1850

420. AGASSIZ (1850). *Lake Superior: Its Physical Character, Vegetation, and Animals, Compared with Those of Other and Similar Regions, etc.*

LOUIS AGASSIZ.

Pæcilosoma Agassiz, 299; haplotype **ETHEOSTOMA VARIATEUM** Kirtland. Preoccupied; replaced by **PÆCILICHTHYS** Ag., 1854.

Argyrosomus Agassiz, 339; haplotype **SALMO CLUPIFORMIS** Ag., not of Mitchill = **SALMO HARENGUS** Rich. Name preoccupied (Pylaie, 1834); replaced by **THRISOMIMUS** Gill (1909). A subgenus under **LEUCICHTHYS** Dybowski.

Hypsolepis (Baird) Agassiz, 368; orthotype **CYPRINUS CORNUTUS** Mitchill. Written **HYPSILEPIS** by Cope.

421. BLEEKER (1850). *Bijdrage tot de kennis der Manoiden van den Sanda-Moluksechen Archipel*. Verh. Batav. Genootsch., XXIII.

PIETER BLEEKER.

Pentaptrion Bleeker, I, 104; orthotype **P. GERREOIDES** Blkr.

422. BLEEKER (1850). *Bijdrage tot de kennis der visschen met doolhofvormige kieuwen van den Sanda-Moluksechen Archipel*. Verh. Batav. Genootsch., XXIII, 1850.

PIETER BLEEKER.

Betta Bleeker, XXIII, 12; orthotype **B. TRIFASCIATA** Blkr.

423. COSTA (1850). (*Fossil Fishes: Ittioliti.*) Atti Accad. Pontan, V.

ORONZIO GABRIELE COSTA.

Sarginites Costa, V, 285; orthotype, **S. PYGMÆUS** Costa (fossil). A synonym of **LEPTOLEPIS**.

Histiurus Costa, V, 288; orthotype **H. ELATUS** Costa. Preoccupied as **ISTIURUS** Cuv., 1829, emended as **HISTIURUS** Ag.; replaced by **KNIGHTIA** Jordan, 1907; type **K. EOCÆNA** Jordan.

Rhynchoncodes Costa, V, 317; orthotype **R. SCACCHI** Costa (fossil). A synonym of **PROPTERUS** Ag.

Blenniomæus Costa, V, 319; orthotype **B. LONGICAUDA** Costa (fossil). A synonym of **NOTAGOGUS** Ag.

Sauropsidium Costa, V, 322; orthotype **S. LEVISSIMUM** Costa.

Megalurites Costa, V, 370; orthotype **DIDON SCILLÆ** Ag. (fossil). A synonym or fossil ally of **DIDON**.

424. DIXON (1850) *The Geology and Fossils of the Tertiary and Cretaceous Formations of Sussex.*

A. FRANCIS DIXON.

Platylæmus Dixon, 205; orthotype **P. COLEI** Dixon (fossil).

Aulodus Dixon, 366; orthotype **A. AGASSIZI** Dixon (fossil). A synonym of **PTYCHODUS** Ag.

Plethodus Dixon, 366; logotype **P. EXPANSUS** Dixon (fossil). (Not **PLETHODON** Tschudi, a genus of lizards.)

Pomognathus Dixon, 367; orthotype **P. EURYPTERYGIUS** Dixon (fossil). A synonym of **HALEC** Ag.

Prionolepis (Egerton) Dixon, 368; orthotype **P. ANGUSTUS** Egert. (fossil).

Homonotus Dixon, 372; orthotype **B. ELEGANS** Dixon (fossil).

Berycopsis Dixon, 372; orthotype **B. ELEGANS** Dixon (fossil).

Stenostoma Dixon, 373; orthotype *S. PULCHELLA* Dixon (fossil).

Pachyrhizodus (Agassiz) Dixon, 374; orthotype *P. BASALIS* Dixon (fossil).

Tomognathus Dixon, 376; logotype *P. MORDAX* Dixon (fossil).

425. EGERTON (1850). *Palichthyologic Notes, Supplemental to the Work of Prof. Agassiz on the Ganoidei heterocerci*. Quart. Journ. Geol. Soc. Lond.

PHILIP DE MALPA GREY EGERTON.

Plectrolepis (Agassiz) Egerton, VI, 4; orthotype *P. RUGOSUS* (Ag.) Egert. (fossil).
A synonym of *EURYNOTUS* Ag. = *NOTACMON* Gistel.

426. FISCHER VON WALDHEIM (1850). *Sur un poisson fossile de la Grèce (Platacanthus)*. Bull. Soc. Imp. Nat. Moscou., XXIII.

GOTTHELF FISCHER VON WALDHEIM (1771-1853).

Platacanthus Fischer von Waldheim, XXIII, 286; orthotype *P. UBINOI* Waldheim (fossil). An extinct ally of *DICENTRARCHUS* Gill = *LABRAX* Cuv., not Pallas.

427. FISCHER VON WALDHEIM (1850). *Ommatolampes et Trachelacanthus. genera piscium fossilium nova, in literis Eduardo ab Eichwald datis, descripta*. Mosquæ.

GOTTHELF FISCHER VON WALDHEIM.

Ommatolampes Fischer von Waldheim, 4; orthotype *O. EICHWALDI* Fischer.

Trachelacanthus Fischer von Waldheim, 9; orthotype *T. STSCHUROVSKII* Waldheim (fossil).

428. GIBBES (1850). *Mososaurus and Allied Genera*. Smithsonian Contr. Knowledge, II.

ROBERT WILSON GIBBES (1809-1866).

Conosaurus Gibbes, 10; orthotype *C. BOWMANI* Gibbes. Name regarded as pre-occupied by *CONIOSAURUS*; replaced by *CONOSAURIPS* Leidy (1868).

429. GUICHENOT (1850). *Exploration scientifique de l'Algérie*. Paris.

ALPHONSE GUICHENOT.

Gadiculus Guichenot, 101; orthotype *G. ARGENTEUS* Guich.

430. HECKEL (1850). *Beiträge zur Kenntniss der fossilen Fische Oesterreichs*. Denkschr. Akad. Wiss. Wien, I.

JOHANN JAKOB HECKEL.

Saurorhamphus Heckel I, 217; orthotype *S. FREYERI* Heckel (fossil).

Lepidopides Heckel, I, 239; *LEPIDOPUS LEPTOSPONDYLUS* Heckel (fossil). A synonym of *ANENCHELUM* Blainv. and probably of the living genus *LEPIDOPUS*.

431. JERDON (1850). (*Pristolepis*). Madras Journ. Lit. Sci., XVI.

THOMAS CLAVERHILL JERDON.

Pristolepis Jerdon, XVI, 298; orthotype *P. MARGINATUS* Jerdon. Jerdon (*Ann. Mag. Nat. Hist.*, 1865, 298) claims priority of *PRISTOLEPIS* over *CATOPRA* Blkt. *CATOPRA* was first noted in 1851.

432. LANKESTER (1850). (*Fishes of the Old Red Sandstone*.)

EDWIN RAY LANKESTER (1847-).

Zenaspis Lankester, 43; orthotype *CEPHALASPIS SALWEYI* Egert. (fossil). A synonym of *CEPHALASPIS*.

433. LOWE (1850). *An Account of Fishes Discovered or Observed in Madeira Since the Year 1842*. Proc. Zool. Soc. London, XVIII.

RICHARD THOMAS LOWE.

Phænodon Lowe, 250; orthotype *P. RINGENS* Lowe. A synonym of *ASTRONESTHES* Rich.

434. PICTET (1850). *Description de quelques poissons fossiles du Mont Liban*. Mém. Soc. Phys. Hist. Nat. Genève, XII, 1849, published in 1850.

FRANÇOIS JULES PICTET (1809-1872).

Petalopteryx Pictet, 20; orthotype *P. SYRIACUS* Pictet (fossil).

Eurypholis Pictet, 28; logotype *E. BOISSIERI* Pictet (fossil). A synonym of *SAUBOR HAMPHUS*.

Spaniodon Pictet, 33; logotype *S. BLONDELI* Pictet (fossil).

Coccodus Pictet, 51; orthotype *C. ARMATUS* Pictet (fossil).

435. RICHARDSON (1850). *Notices of Australian Fish*. Proc. Zool. Soc. London XVIII.

JOHN RICHARDSON.

Sciænoides (Solander MS.). Richardson, 62; haplotype *S. ABDOMINALIS* Solander. — *SCLENA MACROPTERA* Forster; in synonymy only; a species of *DACTYLOSPARUS* Gill.

Threpterus Richardson, 68; orthotype *T. MACULOSUS* Rich.

Olisthops Richardson, 74; orthotype *O. CYANOMELAS* Rich. (Also in *Ann. Mag. Nat. Hist.*, VIII, 185, 290.) Name spelled *OLISTHEROPS* by Günther.

436. TEMMINCK & SCHLEGEL (1850). *Fauna Japonica* (last part).

COENRAAD JACOB TEMMINCK; HERMANN SCHLEGEL.

Pseudoblennius Temminck & Schlegel, 313; orthotype *P. PERCOIDES* Gthr.

Pseudoclinus Temminck & Schlegel, pl. LXXIX; orthotype *PSEUDOBLENNIIUS PERCOIDES* Gthr. A slip of the pen for *PSEUDOBLENNIIUS*.

Velifer Temminck & Schlegel, 312; orthotype *V. HYPSOLOPTERUS* Blkr.

437. THIOLLIÈRE (1850). *Un nouveau gisement de poissons fossiles dans le Jura de département de l'Ain*. Ann. Soc. Agric. Lyon, I.

VICTOR JOSEPH DE L'ISLE THIOLLIÈRE.

Disticholepis Thiollière, III, 136; orthotype *M. FOURNETI* Thiollière. A synonym of *MACROSEMIIUS* Ag.

Oligopleurus Thiollière, III, 154; orthotype *O. ESOCINUS* Thiollière (fossil).

1851

438. BLEEKER (1851). *Visschen van Banka*. Nat. Tijdschr. Neder.-Indie, 1851 PIETER BLEEKER.

Gnathanodon Bleeker, 160; orthotype *SCOMBER SPECIOSUS* Forskål. Not *CARANX* of Lacépède, as first restricted (to *C. CARANGUS*) by Bleeker.

439. BLEEKER (1851). *Nieuwe bijdrage tot de kennis der ichthyologische fauna van Borneo, met beschrijving van eenige nieuwe soorten van zoetwater visschen*. Nat. Tijdschr. Neder.-Indie, II.

PILTER BLEEKER.

Wallago Bleeker, 202; orthotype *WALLAGO DINEMA* Blkr.

Achiroides Bleeker, 262; logotype *PLAGUSIA MELANORHYNCHIIUS* Blkr.

Clupeoides Bleeker, 275; orthotype *C. BORNEENSIS* Blkr. A synonym of *CORICA* Gray.

Luciocephalus Bleeker, 278; orthotype *DIPLOPTERUS PULCHER* Gray. Replaces *DIPLOPTERUS* Gray, preoccupied in birds.

440. BLEEKER (1851). *Over einige nieuwe geslachten en soorten van Makreel-gtigitte Visschen van den Indischen Archipel*. Nat. Tijdschr. Neder.-Indie, I, 1851.

PIETER BLEEKER.

Decapterus Bleeker, II, 358; orthotype *CARANX KURRA* Cuv. & Val.

Selar Bleeker, 359; logotype *CARANX HASSELTII* Blkr. (*C. BOOPS* Cuv. & Val. indicated as type by Jordan & Evermann, 1898, was not named in Bleeker's first account (only *S. HASSELTII*, *S. KUHLI*, *S. MACRURUS*, *S. MALAM*).

Carangoides Bleeker, 366; orthotype *CARANX PRÆUSTUS* Bennett, the only other species here mentioned being *C. ATROPUS*, type of *ATROPUS* Cuv. Defined to include *CITULA*, *ATROPUS* and *OLISTUS* as well as *CARANGOIDES* proper, as restricted by Jordan & Evermann.

Leioglossus Bleeker, 367; orthotype *L. CARANGOIDES* Blkr.

Stromateoides Bleeker, I, 368; orthotype *STROMATEUS CINEREUS* Bloch; a synonym of *PAMPUS* Bon.

441. BLEEKER (1851). *Derde bijdrage tot de kennis der ichthyologische fauna van Borneo, etc.* Nat. Tijdschr. Neder.-Indie, II.

PIETER BLEEKER.

Tetrabanchus Bleeker, II, 69; orthotype *T. MICROPHALMA* Blkr. A synonym of *SYMBRANCHUS* Bloch.

Catopra Bleeker, 172; orthotype *C. FASCIATA* Blkr. A synonym of *PRISTOLEPIS* Jerdon, 1850.

442. BLEEKER (1851). *Cheilinoides, een nieuw geslacht van gladschubbige Labroiden van Batavia*. Nat. Tijdschr. Neder.-Indie, II.

PIETER BLEEKER.

Cheilinoides Bleeker, II, 71; orthotype *C. CYNANOPEURA* Blkr.

443. BLEEKER (1851). *Vierde bijdrage tot den kennis der ichthyologische fauna van Borneo, met beschrijving van eenige nieuwe soorten van zoetwater-visschen*. Nat. Tijdschr. Neder.-Indie, II.

PIETER BLEEKER.

Bagroides Bleeker, II, 204; orthotype *B. MELANOPTERUS* Blkr.

444. BLEEKER (1851). *Nieuwe bijdrage tot de kennis der ichthyologische fauna van Celebes*. Nat. Tijdschr. Neder.-Indie, II, 1851.

PIETER BLEEKER.

Megalaspis Bleeker, II, 213; orthotype *SCEMBER CORDYLA* L. (*CARANX ROTTLERI* Blkr.).

Selaroides Bleeker, II, 213; orthotype *CARANX LEPTOLEPIS* Kuhl & Van Hasselt. Later called *LEPTASPIS*, the reason not stated.

Spratelloides Bleeker, 214; orthotype *CLUPEA ARGYROÆNIA* Blkr.

445. BLEEKER (1851). *Bijdrage tot de kennis der ichthyologische fauna van de Banda eilanden*. Nat. Tijdschr. Neder.-Indie, II.

PIETER BLEEKER.

Labroides Bleeker, II, 249; orthotype *L. PARADISEUS* Bleeker.

Syngnathoides Bleeker, 259; orthotype *S. BLOCHII* Blkr. Replaces *GASTEROTOKEUS* Heckel (1856).

446. GAIMARD (1851). *Voyage de la Commission Scientifique du Nord. Voyage en Skandinavie, en Laponie, à Spitzberg et aux Faroë*, Paris, VII. Zoologie (1851).

JOSEPH PAUL GAIMARD.

Eperlanus Gaimard, VII; orthotype *SALMO EPERLANUS* L. A synonym of *OSMERUS* L. (Not seen.)

447. GIRARD (1851). *On the Genus Cottus auct.* Proc. Boston Soc. Nat. Hist., III. CHARLES FRÉDÉRIC GIRARD (1822-1895).

Acanthocottus Girard, III, 185; logotype *COTTUS GRÆNLANDICUS* Cuv. & Val. A section under *MYOXOCEPHALUS* Steller.

448. GIRARD (1851). *Some Additional Observations on the Nomenclature and Classification of the Genus Cottus.* Proc. Boston Soc. Nat. Hist., III (for 1848), 1851.

CHARLES FRÉDÉRIC GIRARD.

Cottopsis Girard, III, 303; orthotype *COTTUS ASPER* Rich. A section of *COTTUS* L.

449. GRAY (1851). *Description of a New Form of Lamprey from Australia with a Synopsis of the Family.* Proc. Zool. Soc. London.

JOHN EDWARD GRAY.

Geotria Gray, 143; orthotype *GEOTRIA AUSTRALIS* Gray.

Velasia Gray, 143; orthotype *V. CHILENSIS* Gray.

Caragola Gray, 143; orthotype *C. LAPICIDA* Gray. Same as *MORDACIA* Gray.

Mordacia Gray, 144; orthotype *PETROMYZON MORDAX* Rich. A synonym of *CARAGOLA* Gray.

Lampetra Gray, 235; logotype *PETROMYZON FLUVIATILIS* L.

450. LÜTKEN (1851). *Nogle bemaerkinger om naeseborenes stiling hos de i gruppe med Ophisurus staaende slægter af aalefamilien.* Vidensk. Meddel. Naturhist. Foren. Kjöbenhavn.

CHRISTIAN FREDERIK LÜTKEN (1827-1901).

Myrophis Lütken, 1; orthotype *M. PUNCTATUS* Lütken.

Chilorhinus Lütken, 1; orthotype *C. SUENSONI* Lütken.

451. MEYER (1851). *Fossile Fische aus dem Muschelkalk von Jena, Querfurt und Esperstadt.* Palæontographica.

HERMANN VON MEYER.

Tholodus (Meyer) Schmid & Schleiden, I, 199; orthotype *T. SCHMIDI* (fossil). Perhaps a tooth of a reptile.

- 452, 453. MEYER (1851). *Palæontographica.* I.

HERMANN VON MEYER.

Nephrotus Meyer, I, 243; orthotype *OMPHALODUS CHORZOWENSIS* Meyer (fossil). A synonym of *ASTERODON*.

454. M'COY (1851) (*Steganodictyum*) Mag. Nat. Hist., VIII.

FREDERICK M'COY.

Steganodictyum M'Coy, VIII, 481; orthotype *S. CORNUBICUM* M'Coy (fossil). (Shields of a PTERASPID mistaken for part of a sponge.)

455. THOMPSON (1851). *On Percopsis pellucida.* Proc. Boston Soc. Nat. Hist., III. ZADOCK THOMPSON (1796-1856).

Salmoperca Thompson, III, 164; haplotype *SALMOPERCA PELLUCIDA* Thompson = *PERCOPSUS GUTTATUS* Ag. = *SALMO OMISCOMAYCUS* Walbaum. A synonym of *PERCOPSIS* Ag., 1848.

456. WAGNER (1851). *Beiträge zur Kenntniss der in den lithographischen Schieferen abgelagerten urweltlichen Fische*. Abh. Bayer. Akad. Wiss., VI.

JOHANN ANDREAS WAGNER (1797-1861).

- Mesodon** Wagner, VI, 56; orthotype **GYRODUS MACROPTERUS** Ag. (fossil). Name preoccupied in mollusks, Rafinesque, 1819; replaceable by **TYPODUS** Quenstedt, 1858.

- Strobilodus** Wagner, VI, 75; orthotype **S. GIGANTEUS** Wagner (fossil). A synonym of **CATURUS** Ag.

1852

457. BLEEKER (1852). *Bijdrage tot de kennis der Makreelachtige visschen van den Soenda-Molukschen Archipel*. Verh. Batav. Genootsch., XXIV, 1852.

PIETER BLEEKER.

- Leptaspis** Bleeker, XXIV, 71; orthotype **CARANX LEPTOLEPIS** Kuhl & Van Hasselt. Called earlier **SELAROIDES**, the reason for changing not known to me.

458. BLEEKER (1852). *Bijdrage tot de kennis der Plagiostomen van den Indischen Archipel*. Verh. Batav. Genootsch., XXIV.

PIETER BLEEKER.

- Hemigaleus** Bleeker, XXIV, 45; orthotype **H. MICROSTOMA** Blkr. Preoccupied in mammals as **HEMIGALEA**.

459. BLEEKER (1852). *Diagnostische beschrijving van nieuwe of weinig bekende visschsoorten van Sumatra*. Nat Tijdschr. Neder.-Indie, III, 1852.

PIETER BLEEKER.

- Pristipomoides** Bleeker, III, 574; orthotype **P. TYPUS** Blkr. Replaces **CHÆTOPTERUS** T. & S., preoccupied

460. BLEEKER (1852). *Derde bijdrage tot de kennis der ichthyologische fauna van Celebes*. Nat. Tijdschr. Neder.-Indie, III.

PIETER BLEEKER.

- Carangichthys** Bleeker, III, 760; orthotype **C. TYPUS** Blkr. A synonym of **CARANX** Lac. (based on young specimens).

461. DUMÉRIL (1852). *Monographie de la famille des torpediniciens, ou poissons plagiostomes électriques*. Rev. Mag. Zool., IV.

AUGUSTE HENRI ANDRÉ DUMÉRIL (1812-1870).

- Hypnos** A. Duméril, 279; orthotype **H. SUBNIGRUM** Dum. Name preoccupied; replaced by **HYPNARCE** Waite, 1902.

462. EGERTON (1852). *Fish: Elasmodus, etc.* (In *Figures and Descriptions of British Organic Remains*.) Mem. Geo. Surv. United Kingdom.

PHILIP DE MALPAS GREY EGERTON.

- Lophistomus** Egerton, Dec. VI, No. 10; orthotype **L. DIXONI** Egert. (fossil).

463. FISCHER VON WALDHEIM (1852). *Sur quelques poissons fossiles de la Russie*. Bull. Soc. Imp. Nat. Moscou, XXV.

GOTTHELF FISCHER VON WALDHEIM.

- Pycnacanthus** Fischer von Waldheim, XXV, 174; orthotype (not named by Woodward) (fossil). (An unrecognized fragment.)

- Siphonodus** Fischer von Waldheim, XXV, 175; orthotype **S. PANDERI** Waldheim (fossil).

464. GERVAS (1852). *Zoologie et Paléontologie Françaises*. II.
FRANÇOIS LOUIS PAUL GERVAS.

Sandroserrus Gervais, II, 8; orthotype *PERCA REBOULI* Gervais (fossil).

- 465 LOWE (1852). *An Account of Fishes Discovered or Observed in Madeira Since the Year 1842*. Ann. Mag. Nat. Hist. London, ser. X.
RICHARD THOMAS LOWE.

Leptorhynchus Lowe, X, 54; orthotype *L. LEUCHTENBERGI* Lowe. Name preoccupied; replaced by *BELONOPSIS* Brandt. A synonym of *NEMICHTHYS* Rich.

466. QUENSTEDT (1852). *Handbuch der Petrefaktenkunde*.
FRIEDRICH AUGUST VON QUENSTEDT (1809-1889).

Selachidea Quenstedt, 173; orthotype *S. TOROLOSI* Quenstedt (fossil). Probably a synonym of *HYBODUS*.

Serrolepis Quenstedt, 207; orthotype *S. SUEVICUS* Dames. (fossil).

Pleurolepis Quenstedt, 214; orthotype *P. SEMICINCTUS* Quenstedt (fossil). A synonym of *TETRAGONOLEPIS* Bronn.

467. ROEMER (1852). *Die Kreidebildungen von Texas und ihre organischen Einschlüsse. Mit einem die Beschreibung von Versteinerungen aus paläozoischen und tertiären Schichten enthaltenden Anhang und mit 11 von Chohe nach der Natur auf Stein gezeichneten Tafeln*. Bonn.
CARL FERDINAND VON ROEMER.

Ancistrodon (Derby) Roemer, 30; orthotype later called *A. TEXANUS* Dames (fossil). Teeth undetermined. Name preoccupied in snakes as *AGKISTRODON*; replaced by *ANKISTRODUS* Koninck, 1870, scarcely better, and by *GRYPODON* Hay, 1899.

- 468 RÜPPELL (1852). *Verzeichniss der in dem Museum der senckenbergischen naturforschenden Gesellschaft aufgestellten Sammlungen*. Vierte Abtheilung. *Fische und deren Skelette*.

WILHELM PETER EDUARD SIMON RÜPPELL.

Microichthys Rüppell, 1; orthotype *M. COCCOI* Rüppell.

Pharopteryx Rüppell, 16; orthotype *P. BENOIT* Rüppell. Not PHAROPTERN of Rüppell, 1828, which is a synonym of *PLESIOPS* Cuv. A synonym of *MORA* Risso.

Chærops Rüppell, 20; orthotype *C. MELFAGIS* Rüppell. A synonym of *CHÆRODON* Blkr.

Sarotherodon Rüppell, 21; orthotype *S. MELANOTHERON* Rüppell.

Erythron Rüppell, 34; orthotype *BALISTES NIGER* Lac., *BALISTES ERYTHRON* Gthr. Substitute for *XENODON* Rüppell, 1835, preoccupied, but the name *ODONUS* Gistel (1848) has priority and *ZENODON* Sw. (1829) is still older, if available.

1853

469. AGASSIZ (1853). *Recent Researches of Professor Agassiz*. (Extract from letter to J. D. Dana dated Cambridge, June 9, 1853). Amer. Journ. Sci., XVI.
LOUIS AGASSIZ.

In this paper four new genera are briefly described. The species concerned were not named until later.

Chologaster Agassiz, 135; (haplotype *CHOLOGASTER CORNUTUS* Ag.). Short account of the genus, the species named later.

Heterandria Agassiz, 135. (logotype II FORMOSA Ag.) Stated to contain two species named later, II FORMOSA and II HOLBROOKI, the latter being GAST

BUSIA PATRUELI Baird & Grd. After consultation with Professor Poey FORMOSA was chosen by Jordan as the type of HETERANDRIA. This name replaces GIRARDINUS Poey.

Zygonectes Agassiz, 135; logotype POECILIA OLIVACEA Storer = SEMOTILUS NOTATIUS Raf. Brief notice of genus; its species indicated in 1854 (*Fish. Tennessee River*).

Melanura Agassiz, 135; orthotype EXOGLOSSUM ANNULATUM Raf. Note on the genus, the type indicated on page 217 of the same journal. A synonym of UMBRA Gronow.

470. AGASSIZ (1853). *Extraordinary Fishes from California Constituting a New Family (Holconoti or Embiotocidæ)*. Amer. Journ. Sci., XVI.

LOUIS AGASSIZ.

Embiotoca Agassiz, 386; orthotype E. JACKSONI Ag.

471. BAIRD & GIRARD (1853). *Descriptions of New Species of Fishes Collected by Mr. John H. Clark on the U. S. and Mexican Boundary Survey, under Lt.-Col. Jas. D. Graham*. Proc. Acad. Nat. Sci. Phila.

SPENCER FULLERTON GIRARD (1823-1887); CHARLES GIRARD.

Ceraticthys Baird & Girard, 391; orthotype C. VIGILAX Baird & Girard (not of Baird & Girard, 1856). No description. Replaces CLIOLA Grd., 1856.

472. BAIRD & GIRARD (1853). *Descriptions of New Fishes from the River Zuñi*. Proc. Acad. Nat. Sci. Phila.

SPENCER FULLERTON BAIRD; CHARLES GIRARD.

Gila Baird & Girard, VI, 368; logotype GILA ROBUSTA Grd.

473. BLEEKER (1853). *Diagnostische beschrijvingen van nieuwe of weinig bekende visschsoorten van Batavia*. Tintal I-IV, Nat. Tijdschr. Neder.-Indie, IV, 1853.

PIETER BLEEKER.

Murænichthys Bleeker, 506; orthotype M. GYMNOPTERUS Blkr.

474. BLEEKER (1853). *Nieuwe bijdrage tot de kennis de ichthyologische fauna van Ternate en Halmahera (Giolo)*. Nat. Tijdschr. Neder.-Indie, IV.

PIETER BLEEKER.

Polypterichthys Bleeker, II, 608; orthotype P. VALENTINI Blkr. A synonym of AULOSTOMUS.

475. BLEEKER (1853). *Zevende bijdrage tot de kennis der ichthyologische fauna van Borneo. Zoetwatervisschen van Sombas, Pontianak en Pengaron*. Nat. Tijdschr. Neder.-Indie, V.

PIETER BLEEKER.

Datnioïdes Blkr., V, 440; orthotype CIUS POLOTA Ham. A synonym of COIUS Ham., as restricted by Fowler, 1905, to COIUS POLOTA. This antedates the restriction by Jordan (*Genera of Fishes*, 1917, 114) to C. COROJUS Ham.

476. BLEEKER (1853). *Bijdrage tot de kennis der Murænoïden en Symbranchoïden van den Indischen Archipel*. Verh. Batav. Genootsch., XXV.

PIETER BLEEKER.

Stethopterus Bleeker, XXV, 24, 36; orthotype OPHISURUS VIMINEUS Rich. A synonym of LEIURANUS Blkr. and having line priority.

Leiuranus Bleeker, XXV, 36; orthotype *L. LACEPEDEI* Blkr. (*OPHISURUS SEMICINCTUS* Bennett.). Same as *STETHOPTERUS* Blkr., the latter having line priority, the name *LEIURANUS* preferred by the author.

477. BLEEKER (1853). *Nalezingen op de ichthyologie van Japan*. Verh. Batav. Genootsch., XXV.

PIETER BLEEKER.

Atherinichthys Bleeker, 40; orthotype *ATHERINA HUMBOLDTIANA* Cuv. & Val. A synonym of *CHIROSTOMA* Sw.

Atherinoides Bleeker, 40; orthotype *ATHERINA VOMERINA* Cuv. & Val. = *ATHERINA HUMBOLDTIANA* Cuv. & Val. A synonym of *CHIROSTOMA* Sw.

Etrumeus Bleeker, XXV, 48; orthotype *CLUPEA MICROPUS* T. & S.

478. BLEEKER (1853). *Nalezingen op de ichthyologische fauna van Bengalen en Hindostan*. Verh. Batav. Genootsch., XXV.

PIETER BLEEKER.

Bogoda Bleeker, 89; *CHANDA BOGODA* Ham. = *CHANDA NAMA* Ham. A synonym of *CHANDA* as now restricted.

Badis Bleeker, 106; orthotype *LABRUS BADIS* Ham. = *BADIS BUCHANANI* Blkr.

Bagarius Bleeker, 121; tautotype *PIMELUDUS BAGARIUS* Ham.

479 COSTA (1853). (*Fossil Fishes of Italy*.) Atti Soc. Pontan, VII.

ORONZIO GABRIELE COSTA.

Ionoscopus Costa, 2; orthotype *I. PETRAROLE* Costa (fossil). Name changed in 1864 to *GENOSCUS* Costa for no obvious reasons.

Calignathus Costa, VII, 17; orthotype *BLENNIOMÆUS LONGICAUDA* Costa (fossil). A synonym of *NOTAGOGUS* Ag.

Glossodus Costa, VII, 26; orthotype *PYCNODUS MANTELLI* Ag. (fossil). Name preoccupied; to be replaced by *COSMODUS* Sauvage (1879).

480 GERVAIS (1853). *Remarques sur les poissons fluviatiles de l'Algérie, et description de deux genres nouveaux sous les noms de Coptodon et Tellio*. Ann. Nat. (Zool.), XIX.

FRANÇOIS LOUIS PAUL GERVAIS

Coptodon Gervais, II, 15; orthotype *C. ZILLI* Gervais. Also in *Bull. Soc. Agr. Hérault*, 1853, 80.

Tellia Gervais, XIX, 15; orthotype *TELLIA APODA* Gervais.

481 KAUP (1853). *Uebersicht der Lophobranchier*. Archiv. Naturg.

JOHANN JACOB KAUP (1802-1873).

All these genera, except *HEMIMARSUPIUM*, are repeated in Kaup's *Catalogue of the Lophobranchiate Fishes in the British Museum*, 1856.

Acentronura Kaup, 230; orthotype *HIPTOCAMPUS GRACILLIMUS* T. & S.

Gasterotokeus (Heckel) Kaup, 230; orthotype *SYNGNATHIUS MACULEATUS* Bloch = *SYNGNATHOIDES BLOCHI* Blkr. A synonym of *SYNGNATHOIDES* Blkr.

Halicampus Kaup, 231; logotype *H. GRAYI* Kaup.

Trachyrhamphus Kaup 231; orthotype *T. SERRATUS* Kaup (not *SYNGNATHUS SERRATUS* T. & S.).

Corythoichthys Kaup, 231, logotype *C. ALBIROSTRIS* Heckel. A synonym of *HIPIICHTHYS* Blkr.

Ichthyocampus Kaup 231; logotype *I. BELCHERI* Kaup.

Leptonotus Kaup, 232; orthotype *SYNGNATHIUS BLAINVILLEANUS* Eydoix & Gervais.

- Leptoichthys** Kaup, 232; orthotype *L. FISTULARIS* (Bibron).
Stigmatophora Kaup, 233; logotype *SYNGNATHUS ARGUS* Rich.
Doryrhamphus Kaup, 233; orthotype *D. EXCISUS* Kaup.
Choëroichthys Kaup, 233; orthotype *C. VALENCIENNESI* Kaup.
Doryichthys Kaup, 233; logotype *D. BILINEATUS* Heckel.
Hemimarsupium Kaup, 234; orthotype *TYPHILUS GONDOTII* Bibron. For this name Kaup has substituted in 1856 the name *HEMITHYLACUS*. Replaces *CÆLONOTUS* Peters, 1855.
Microphis Kaup, 234; logotype *SYNGNATHUS DEOKHATA* Ham.
482. KÖLLIKER (1853). *Weitere Bemerkungen über die Helmichthyiden*. Verh. Phys. Med. Ges. Würzburg., IV.
 RUDOLPH ALBERT VON KÖLLIKER (1817-1905).
Tilurus Kölliker, IV, 100; orthotype *T. GEGENBAURI* Kölliker. A larva of some form allied to *CONGPR*.
Hyoprurus Kölliker, IV, 101; orthotype *H. MESSINENSIS* Kölliker. A larva of *NETASTOMA* Raf.
483. OWEN (1853). (*Fossil Fishes*.) Quarterly Journ. of Geology.
 RICHARD OWEN.
Parabatrachus Owen, IX, 67; orthotype *P. COLEI* Owen (fossil). Same as *CENTRODUS* M'Coy, a preoccupied name.
484. POMEL (1853). *Catalogue méthodique des vertèbres fossiles de la Loire*. A. POMEL.
Propalæoniscus Pomel, 133; orthotype *P. AGASSIZI* Pomel (fossil) (undescribed). Probably the same as *ELONICHTHYS*.
Cobitopsis Pomel, 134; orthotype *C. EXILIS* Pomel (fossil).
Pœcilops Pomel, 135; orthotype *P. BREVICEPS* Pomel (fossil).
485. ROMANOVSKII 1833). *Ueber eine neue Gattung versteinerte Fisch-Zähne*. Bull. Soc. Imp. Nat. Moscou, XXVI.
 GHEENADI DANILOVICH ROMANOVSKII.
Dicrenodus Romanovskii, XXVI, 407; orthotype *D. OKENSIS* Romanovskii (fossil). Same as *CARCHAROPSIS* Ag.

 1854

486. AGASSIZ (1854). *Notice of a Collection of Fishes from the Southern Bend of the Tennessee River in the State of Alabama*. Am. Journ. Sci., XVII.
 LOUIS AGASSIZ.
Pœcilichthys Agassiz, 304; orthotype *ETHEOSTOMA VARIATUM* Kirtland. Substitute for *PÆCILOSOMA* Ag., preoccupied.
Catonotus Agassiz, 305; haplotype *C. LINEOLATUS* Ag. This name has been regarded as a synonym of *ETHEOSTOMA*, but a decision of the International Committee makes *ETHEOSTOMA* identical with *HYOSTOMA*.
Hadropterus Agassiz, 305; haplotype *H. NIGROFASCIATUS* Ag.
Hyostoma Agassiz, 305; haplotype *H. NEWMANI* Ag. = *ETHEOSTOMA BLENNOIDES* Raf. 1818. A synonym of *ETHEOSTOMA* Raf. and of *DIPLESION* Raf. (1820).
Hybopsis Agassiz, 358; haplotype *H. GRACILIS* Ag., identified by me with *RUTILUS AMBLOPS* Raf., a member of the group called *ERINEMUS* Jordan. If this identification is correct, Agassiz must have overlooked the characteristic barbel. His description fairly fits another species of the same waters, without a bar-

bel. *HYBOPSIS STRAMINEUS* Cope (*MINNILUS MICROSTOMUS* Raf.), a near ally of *ALBURNOPS BLENNIUS*, type of *ALBURNOPS*. Girard and Jordan identify *HYBOPSIS* with *ERINEMUS*; Cope with the *ALBURNOPS* group. Girard's view seems on the basis of evidence available to be correct, and *HYBOPSIS* replaces *ERINEMUS*.

Hypsolepis (Baird) Agassiz, 359; haplotype *CYPRINUS CORNUTUS* Mitchill. A subgenus under *NOTROPIS*. A synonym of *LUXILUS* Raf., later written *HYPSILEPIS*.

487. AGASSIZ (1854). *Additional Notes on the Holconoti*. Amer. Journ. Sci. XVIII (May, 1854).

LOUIS AGASSIZ.

Rhacochilus Agassiz, 367; orthotype *R. TOXOTES* Ag.

Amphistichus Agassiz, 367; orthotype *A. ARGENTEUS* Ag.

Holconotus Agassiz, XXVII, 367; orthotype *H. RHODOTERUS* Ag.

488. AYRES (1854). (*Description of New Fishes from California*.) Proc. Calif. Acad. Nat. Sci., I (1857).

WILLIAM O. AYRES.

Clypeocottus Ayres, 12; orthotype *C. ROBUSTUS* Ayres. *ASPICOTTUS BISON* Grd. A synonym of *ASPICOTTUS* Grd. of the same date.

489. AYRES (1854). (*Description of Four Species of Fishes, Camarina nigricans, Poronotus similimus Ayres, Johnius nobilis, and Scriphus politus*.) Proc. Calif. Acad. Nat. Sci., I (1857).

WILLIAM O. AYRES.

Scriphus Ayres, 80; orthotype *SERIPHUS POLITUS* Ayres.

Camarina Ayres, 81; orthotype *CAMARINA NIGRICANS* Ayres. A synonym of *GIRELLA* Gray.

490. BAIRD & GIRARD (1854). *Descriptions of New Species of Fish Collected in Texas, New Mexico and Sonora, by Mr. John H. Clark on the U. S. and Mexican Boundary Survey, and in Texas by Capt. Stewart Van Vleet, U. S. A.* Proc. Acad. Nat. Sci. Phila.

SPENCER FULLERTON BAIRD; CHARLES GIRARD.

Herichthys Baird & Girard, 25; haplotype *H. CYANOGLUTTATUS* Baird & Girard. A synonym of *HEROS* Heckel, itself a synonym of *ASTRONOTUS* Sw.

Ailurichthys Baird & Girard, 26; haplotype *SILURUS MARINUS* Mitchill (name corrected to *ELURICHTHYS* by Gill). A synonym of *BAGRE* (Cuvier) Oken, 1817, and *FELICHTHYS* Sw., 1839.

Astyanax Baird & Girard, 26; haplotype *A. ARGENTATUS* Baird & Girard.

491. BAIRD & GIRARD (1854). *Notice of a New Genus of Cyprinidae (Cochlognathus)*. Proc. Acad. Nat. Sci. Phila.

SPENCER FULLERTON BAIRD; CHARLES GIRARD.

Cochlognathus Baird & Girard, 150; haplotype *C. ORNATUS* Baird & Girard.

492. BLEEKER (1854). *Species piscium bataviensium novae vel minus cognitae* Nat. Tijdschr. Neder. Indie, VI.

PIETER BLEEKER

Seriolichthys Bleeker, VI, 196, orthotype *SERIOLOLA BIFINNULATA* Q & G. A synonym of *ELAGATIS* Bennett

493. BLEEKER (1854). *Bijdrage tot de kennis der ichthyologische fauna van het eiland Flores*. Nat Tijdschr. Neder.-Indie, VI, 1854, 311-338.
PIETER BLEEKER.
Apogonichthys Bleeker, 321; logotype A. PERDIX Blkr.
Labrichthys Bleeker, 415; orthotype L. CYANOTÆNIA Blkr.
494. BLEEKER (1854). *Vijfde bijdrage tot de kennis der ichthyologische fauna van Amboina*. Nat. Tijdschr. Neder.-Indie, VI.
PIETER BLEEKER.
Tropidichthys Bleeker, VI, 501; logotype T. MARGARITATUS Blkr. A synonym of CANTHIGASTER SW.
- 494A. BLEEKER (1854). *Bijdrage tot de Kennis van de ichthyologische fauna van Celebes*. Nat. Tijdschr. Neder.-Indie, VII.
PIETER BLEEKER.
Chonerhinos Bleeker, 259; orthotype TETRAODON MODESTUS Blkr.; replaces XENOPTERUS Bibron (1855).
495. BRANDT (1854). (*Belonopsis*.) Mém. Acad. Sci. St. Petersburg.
JOHANN FRIEDRICH BRANDT.
Belonopsis Brandt, 174; orthotype LEPTORHYNCHUS LEUCHTENBERGI Lowe. Substitute for LEPTORHYNCHUS, preoccupied; a synonym of NEMICHTHYS Rich.
496. COSTA (1854). *Fauna del regno di Napoli, ossia enumerazione di tutti gli animali che abitano le diverse regioni di questo regno e le acque che le bagnano; contenente la descrizione di nuovi o poco esattamente conosciuti; con figure ricavata da original viventi e dipinte al naturale di O. G. Costa (continuata da A. Costa)*.
ORONZIO GABRIELE COSTA.
Helmichthys Costa, tavola 31; orthotype H. DIAPHANUS Costa. A larva of CONGER.
497. EGERTON (1854). *On Some New Genera and Species of Fossil Fishes*.
Ann. Mag. Nat. Hist., XIII.
PHILIP DE MALPAS GREY EGERTON.
Æchmodus Egerton, X, 367; logotype TETRAGONOLEPIS CONFLUENS Ag. (fossil).
A substitute for TETRAGONOLEPIS Ag., not of Bronn. A synonym of DAPEDIUM Leach.
Histionotus Egerton, XIII, 434; orthotype H. ANGULARIS Egert. (fossil).
Legnonotus Egerton, III, 435; orthotype L. COTHAMIENSIS Egert. (fossil).
498. EGERTON (1854). *Palæichthyologic Notes. ..Supplemental to the Works of Prof. Agassiz*. Quart. Journ. Geol. Soc. On a fossil (DIPTERONOTUS CYPHUS) from the upper beds of the new red sandstone at Bromsgrove, X.
PHILIP DE MALPAS GREY EGERTON.
Dipteronotus Egerton, X, 369; orthotype D. CYPHUS Egert.
499. EICHWALD (1854). *Lethæa Rossica, ou Paléontologie de la Russie décrite et figurée*.
CARL ÉDUARD VON EICHWALD.
Thyestes Eichwald, I, 108; orthotype T. VERRUCOSUS Eichw. (fossil).
500. GIBBONS (1854). *Description of New Species of Viviparous Marine and Fresh-water fishes, from the Bay of San Francisco and from the River and Lagoons of the Sacramento*. Proc. Acad. Nat. Sci. Phila., VII. (These

genera were printed in advance, in the local proceedings of the society, in the *Daily Placer Times and Transcript*, San Francisco, May and June, 1854 (the genus *MYTILOPHAGUS* excepted.)

WILLIAM P. GIBBONS.

Hysterochampus Gibbons, May 18; orthotype *H. TRASKI* Gibbons (later published in *Proc. Acad. Nat. Sci. Phila.*).

Cymatogaster Gibbons, May 18; haplotype *C. AGGREGATUS* Gibbons (not *CYMATOGASTER* of Gibbons, *Proc. Acad. Nat. Sci. Phila.*, 1854, 123, or of *Placer Times*, June 21, which is a synonym of *HOLCONOTUS* Ag.)

Hyperprosopon Gibbons, May 18; orthotype *H. ARGENTEUS* Gibbons.

Micrometrus Gibbons, May 30; restricted by Alexander Agassiz, 1861, to logotype *M. MINIMUS* Gibbons. Replaces *ABEONA* Grd.

Pachylabrus Gibbons, June 21; orthotype *P. VARIEGATUS* Gibbons. A synonym of *RHACOCILUS* Ag.

501. GIBBONS (1854). *Description of New Species of Viviparous Marine and Fresh-water Fishes, from the Bay of San Francisco, and from the River and Lagoons of the Sacramento.* *Proc. Acad. Nat. Sci. Phila.*, 1854, VII.

WILLIAM P. GIBBONS.

In this paper are repeated the descriptions in the *Daily Placer Times and Transcript*, with the addition of the genus *MYTILOPHAGUS*, and the transfer of the name *CYMATOGASTER* to the group called *HOLCONOTUS* by Agassiz.

Mytilophagus Gibbons, 125; orthotype *M. FASCIATUS* Gibbons (not in the *Placer Times*). A synonym of *AMPHISTICHUS* Ag.

502. GIRARD (1854). *On a New Genus of American Cottoids.* *Proc. Boston Soc. Nat. Hist.*, IV (for 1851), 1854.

CHARLES FRÉDÉRIC GIRARD.

Triglopsis Girard, IV, 16; haplotype *T. THOMPSONI* Grd. Name changed on account of the earlier *TRIGLOPS* to *PTYNOTUS* by Gthr., 1860; this change is not necessary.

- 502A. GIRARD (1854). *Description of New Fishes Collected by A. L. Heermann, Naturalist Attached to the Survey of the Pacific Railroad, Under Lieut. R. S. Williams, U. S. A.* *Proc. Acad. Nat. Sci. Phila.*, VII.

CHARLES FRÉDÉRIC GIRARD.

Aspicottus Girard, 130; orthotype *A. BISON* Grd.

Leptocottus Girard, 130; orthotype *L. ARMATUS* Grd.

Scorpanichthys Girard, 131; orthotype *HEMITRIPTERUS MARMORATUS* Ayres.

Ophiodon Girard, 133; orthotype *O. ELONGATUS* Grd.

Atherinopsis Girard, 134; orthotype *A. CALIFORNIENSIS* Grd.

Pogonichthys Girard, 136; logotype *POGONICHTHYS INÆQUILIBUS* Baird & Girard.

Lavinia Girard, 137; haplotype *L. EXILICAEDA* Baird & Girard.

Platichthys Girard, 139; orthotype *P. RUGOSUS* Grd. *PLEURONCTES STELLATUS* Pallas.

Pleuronichthys Girard, 139; orthotype *P. CENOSUS* Grd.

Parophrys Girard, 139, orthotype *P. VETULUS* Grd.

Psettichthys Girard, 140, orthotype *P. MELANOSTICTUS* Grd.

503. GIRARD (1854). *Enumeration of the Species of Marine Fishes Collected at San Francisco, California, by Dr. C. B. R. Kennerly, Naturalist, Attached to*

the Survey of the Pacific Railroad Route Under Lieut. A. W. Whipple.
Proc. Acad. Nat. Sci., Phila., VIII.

CHARLES FRÉDÉRIC GIRARD.

Porichthys Girard, 141; orthotype *P. NOTATUS* Grd.

Heterostichthys Girard, 143; orthotype *H. ROSTRATUS* Grd.

Apodichthys Girard, 150; logotype *A. FLAVIDUS* Grd.

Phanerodon Girard, 153; orthotype *P. FURCATUS* Grd.

504. GIRARD (1854). *Abstract of a Report to Lieut. James M. Gilliss, U. S. N., Upon the Fishes Collected During the U. S. Naval Astronomical Expedition to Chili.* Proc. Acad. Nat. Sci. Phila. (Complete report printed in 1855.)

CHARLES FRÉDÉRIC GIRARD.

Percichthys Girard, 197; logotype *PERCA TRUCHA* Cuv. & Val.

Percilia Girard, 197; orthotype *P. GILLISSI* Grd.

Basilichthys Girard, 198; orthotype *ATHERINA MICROLEPIDOTA* Jenyns.

Heterognathus Girard, 198; logotype *ATHERINA HUMBOLDTIANA*, Cuv. & Val. A synonym of *CHIROSTOMA* Sw.

Nematogenys Girard, 198; orthotype *TRICHOMYCTERUS INERMIS* Guich.

Cheirodon Girard, VII, 199; orthotype *CHEIRODON PISCICULUS* Grd. Name spelled *CHIRODON* by Günther.

505. GIRARD (1854). *Notice Upon the Viviparous Fishes Inhabiting the Pacific Coast of North America, with an Enumeration of the Species Observed.* Proc. Acad. Nat. Sci. Phila., VII.

CHARLES FRÉDÉRIC GIRARD.

Damalichthys Girard, 321; orthotype *D. VACCA* Grd. = *EMBIOTOCA ARGYROSOMA* Grd.

Abeona Girard, 322; orthotype *A. TROWBRIDGEI* Grd. A synonym of *MICROMETRUS* Gibbons, as restricted by A. Agassiz (1861).

Ennichthys Girard, 322; logotype *HOLCONOTUS MEGALOPS* Grd. A synonym of *HYPERPROSOPON* Gibbons.

506. GRONOW (1854). *Catalogue of Fishes Collected and Described by Laurence Theodore Gronow, Now in the British Museum.* Edited from the manuscript, by Albert Günther (written about 1770, an admirable paper, had it seen the light 80 years earlier).

LORENZ THEODOR GRONOW.

(Laurentius Theodorus Gronovius.)

Pastinaca Gronow, 11; logotype *P. LEVIS* Gronow. *RAJA PASTINACA* Gronow. A synonym of *DASYATIS* Raf.

Holacanthus Gronow, 23; orthotype *H. LEIONOTHOS* Gronow. Name preoccupied; a synonym of *TETRAODON* L. as understood.

Cestreus Gronow, 49; orthotype *C. CAROLINENSIS* Gronow. Name preoccupied by *CESTREUS* McCl.; equivalent to *CYNOSCION* Gill.

Boops Gronow, 58; orthotype *B. ASPER* Gronow = *PRIACANTHUS BOOPS* Cuv. A synonym of *PRIACANTHUS* Cuv.

Gonopterus Gronow, 77; orthotype *G. MERENS* Gronow. A synonym of *ZANCLUS* Cuv.

Adonis Gronow, 93; logotype *A. PAVONINUS* Gronow = *BLENNIUS OCELLARIS* L. A synonym of *BLENNIUS* L.

Gonocephalus Gronow, 105; orthotype *G. MACROCEPHALUS* Gronow = *TRIGLA VOLITANS* L. A synonym of *DACTYLOPTERUS* Lac.

- Sarda** Gronow, 119; logotype *SARDA IMMACULATA* Gronow = *SCOMBER PELAGICUS* L., not of Cuvier; a synonym of *CORYPHÆNA* L.
- Thynnus** Gronow, 121; logotype *T. MOLUCCENSIS* Gronow; name preoccupied; a synonym of *SCOMBEROIDES* Lac.
- Trachurus** Gronow, 124; logotype *T. CORDYLA* L. Name preoccupied; same as *MEGALASPIS* Blkr.
- Merlucius** Gronow, 129; orthotype *M. LANATUS* Gronow. Same as *MERLUCCIUS* Raf.
- Glanis** Gronow, 135; orthotype *G. IMBERBIS* Gronow = *MYSTUS CHIHUALA* Ham. A species of *NOTOPTERUS*. Name preoccupied.
- Macrognathus** Gronow, 147; logotype *CENTRISCUS SCOLOPAX* L. Name preoccupied; a synonym of *MACROHAMPHOSUS* Lac.
- Chromis** Gronow, 149; orthotype *C. EPICURORUM* Gronow = *GASTEROSTEUS SALATRIX* L. Name preoccupied; a synonym of *POMATOMUS* Lac.
- Cephalinus** Gronow, 159; logotype *BLENNIUS TORVUS*. A synonym of *CONGIOPUS* Perry (*AGRIOPUS* Cuv.).
- Trichopterus** Gronow, 162; orthotype *T. INDICUS* Gronow = *CHEILODACTYLUS FASCIATUS* Lac. A synonym of *CHEILODACTYLUS* Lac.
- Cordylus** Gronow, 163; orthotype *SCOMBER SCOMBRUS* L. A synonym of *SCOMBER* L.
- Mystus** Gronow, 165; type *M. CAROLINENSIS* Gray. Name preoccupied; a synonym of *BAGRE* Cuv. = *FELICHTHYS* Sw.
- Lepturus** Gronow, 165; orthotype *LEPTURUS BREVIROSTRIS* Gronow = *CORYPHÆNOIDES RUPESTRIS* Gunner. A synonym of *CORYPHÆNOIDES* Gunner.
- Dascillus** Gronow, 171; type not named; a clupeid fish, part of the description lost; not *DASYLLUS* Cuv.
- Amia** Gronow, 173; orthotype *A. PERCÆFORMIS* Gronow = *APOGON MOLUCCENSIS* Blkr. This is the first use of the name *AMIA* by a binomial author (after Gronow's non-binomial use in 1763) in place of *APOGON* Lac. This was followed afterward by Bleeker, Gill and others.
- Stethochætus** Gronow, 174; orthotype *S. BIGUTTATUS* Gronow; a synonym of *SETIPINNA* Sw. (*TELARA* Gthr.).
- Acronurus** Gronow, 190; logotype *TEUTHIS HEPATUS* L. A synonym of *HEPATUS* or *TEUTHIS*.

507. HECKEL (1854). *Ueber fossile Fische aus Chiavon und das geologische Alter der sie enthaltenden schichten*. Sitzh. Akad. Wiss. Wien, IX, 1854, 322-334.

JOHANN JACOB HECKEL

- Galeodes** Heckel, XI, 324; orthotype *GALEOCERDO PRISCUS* Zigno (fossil). A fossil ally of *GALEOCERDO*.

508. HECKEL (1854). *Bericht ueber die vom Herrn Cavaliere Achille de Zigno hier angelangte Sammlung fossiler Fische*. Sitzb. Akad. Wiss. Wien, XI, 1854.

JOHANN JACOB HECKEL

- Solenorhynchus** Heckel, XI, 126; orthotype *S. ELEGANS* Heckel (fossil).
- Enneodon** Heckel, XI, 127; orthotype *E. ECHINUS* Heckel (fossil). Name preoccupied, replaced by *HEPTADIDON*; a fossil ally of *Diodon*.
- Vomeropsis** Heckel, XI, 134; logotype *VOMER LONGISPINUS* Ag. (fossil).

509. HYRTL (1854). *Beitrag zur Anatomie von Heterotis ehrenbergii C. et F.* Denkschr. Akad. Wiss. Wien, VIII.
CARL JOSEPH HYRTL (1811-1894).

- Helicobranchus** Hyrtl, VIII, 73; orthotype *SUDIS NILOTICUS* Cuv. & Val. A substitute for *HETEROTIS* Ehrenb.; preoccupied, already replaced by *CLUPISUDIS* Sw., 1839.
510. KNER (1854). *Die Panzerwelze des K. K. Hofnaturalien-Cabinetes zu Wien. I. Abtheilung, Loricarinae*. Denkschr. Akad. Wiss. Wien, 1854. (An abstract in *Sitzb. Akad. Wiss. Wien*, X, 113.)
 RUDOLPH KNER.
- Hemiodon** Kner, about 65; logotype *H. DEPRESSUS* Kner.
- Acestra** Kner, 93; orthotype *A. ACUS* Kner. Name preoccupied; replaced by *FARLOWELLA* Eigenmann (1890).
511. KNER (1854). *Die Hypostomiden. Zweite Hauptgruppe der Familie der Panzerfische (Loricata vel Goniodontes)*. Denkschr. Akad. Wiss. Wien, 1853. This paper appeared in 1854, an abstract in *Sitzb. Akad. Wiss. Wien*, 1853.
 RUDOLPH KNER.
- Ancistrus** Kner VII, 272; logotype *HYPOSTOMUS TEMMINCKI* Val, as restricted by Bleeker, 1863; Eigenmann (1912) indicates as type *A. CIRRHOSUS* Kner, a congeneric species.
512. MARCUSEN (1854). *Vorläufige Mittheilung aus einer Abhandlung über die Familie der Mormyren*. Bull. Acad. Sci. St. Pétersb., XII.
 JOHANN MARCUSEN
- Petrocephalus** Marcusen, XII, 10; orthotype *MORMYRUS BANE* Val.
513. OWEN (1854). *Descriptive Catalogue of the Fossil Organic Remains of Reptilia and Pisces Contained in the Museum of the Royal College of Surgeons of England*. London, XIX.
 RICHARD OWEN.
- Eucynodus** Owen, 160; orthotype *E. HUNTERI* Owen (fossil).
- Acropoma** Owen, 164; orthotype *A. ALTA* Owen (fossil). Name preoccupied by *ACROPOMA* T. & S.
- Toxopoma** Owen, 164 orthotype *T. POLITUM* Owen (fossil).
- Cariniceps** Owen, 165; orthotype *C. COMPRESSUS* Owen (fossil); name only, referred by Woodward to synonym of *EOTHYNNUS*.
- Platygenys** Owen, 165; orthotype *P. RUGOSUS* Owen (fossil).
- Pygacanthus** Owen, 166; orthotype *P. ALTUS* Owen (fossil).
- Planesox** Owen, 169; orthotype *P. VORAX* Owen (fossil). Name only, noted by Woodward, *Cat.*, V, 519, 1901. Same as *PERCOSTOMA* Ag.
- Platops** Owen, 170; orthotype *P. SUBULIDENS* Owen (fossil). Undefined; supposed to be a synonym of *BRYCHÆTUS* (Ag.)
- Sciænurus** Owen, 171; orthotype *S. LONGIOR* Owen (fossil). Name only; noted by Woodward, *Cat.*, 519, 1901.
514. POEY (1854). *Nuevo genero de peces Escombridos, Epinnula magistralis Poey*. Memorias de Cuba, I.
 FELIPE POEY Y ALOY (1799-1891).
- Epinnula** Poey, I, 369 (April, 1854); orthotype *E. MAGISTRALIS* Poey.
515. POEY (1854). *Los Guajacones, peces de agua dulce*. Memorias de Cuba, I. (June, 1854.)
 FELIPE POEY Y ALOY.
- Gambusia** Poey, I, 382; orthotype *G. PUNCTATA* Poey.

Girardinus Poey I, 383; orthotype *G. METALLICUS* Poey. A synonym of *HETERANDRIA* Ag. as restricted by Poey.

Limia Poey, I, 382; orthotype *L. CUBENSIS* Poey. A synonym of *PÆCILIA* Cuv. (ALAZON Gistel).

516. RAPP (1854). *Die Fische des Bodensees untersucht und beschrieben.* Jahresschr. Ver. Vaterl. Naturg. Württemberg, X.

WILHELM LUDWIG VON RAPP.

Umbra Rapp, 32; orthotype *SALMO UMBRA* = *SALVELINUS ALPINUS* L. A synonym of *SALVELINUS* Rich.

517 RICHARDSON (1854). *Vertebrates, Including Fossil Mammals.* (In Forbes, Edward (editor), *The Zoology of the Voyage of H. M. S. "Herald," Under the Command of Captain Henry Kellett, R. N., During the Years 1845-1851.* London.

JOHN RICHARDSON.

Prilonotus (Muller) Richardson; orthotype *P. CAUDACACINCTUS* Rich. A synonym of *CANTHIGASTER* Sw. or *PSILONOTUS* Sw.

Anchisomus (Kaup) Richardson, 156; logotype *TETRAODON SPENGLERI* Bloch. A synonym of *SPHEROIDES* L. as restricted.

518 THIOLLIÈRE (1854). *Description des poissons fossiles provenant des gisements coralliens du Jura dans le Bugey.* Lyons.

VICTOR JOSEPH DE L'ISLE THIOLLIÈRE.

Holochondrus Thiollière, 4; orthotype (not named) (name only) (fossil).

Spathobatis Thiollière, 7; orthotype *S. BUGESIACUS* Thiollière (fossil).

Belemnobatis Thiollière, 8; orthotype *B. SISMONDÆ* Thiollière (fossil).

Phorcynus Thiollière, 9; orthotype *P. CATULINA* Thiollière (fossil). An ally of *SQUATINA* Dum.

519 TROSCHEL (1854): *Ueber die fossilien Fische aus der Braunkohle des Siebengebirges.* Verh. Naturh. Ver. Preuss. Rheinl. Westphal.

FRANZ HERMANN TROSCHEL.

Tarsichthys Troschel, XI, 11; orthotype *LEUCISCUS TARSIGER* Troschel (fossil). A fossil analogue of *TINCA* Cuv.

1855

520 AGASSIZ (1855). *Synopsis of the Ichthyological Fauna of the Pacific Slope of North America, Chiefly from the Collections Made by the Expedition Under the Command of Captain C. Wilkes, etc.* Amer. Journ. Sci., XIX.

LOUIS AGASSIZ.

Bubalichthys Agassiz, 192; orthotype *CARPIODES URUS* Ag. Regarded as a synonym of *ICTIOMUS* Raf.

Ptychostomus Agassiz, 203; logotype *CATOSTOMUS AUREOLUS* Le Sueur. A synonym of *MOXOSTOMA* Raf.

Hylomyzon Agassiz, 205; haplotype *CATOSOMUS NIGRICANS* Le Sueur. A synonym of *HYPERTELUM* Raf.

Acrocheilus Agassiz, 211; orthotype *LEUCISCUS ALUTACEUS* Rich.

Campostoma Agassiz, 218; orthotype *RUTILUS ANOMALUS* Raf.

Hyborhynchus Agassiz, 223; haplotype *MINNILUS NOTATUS* Raf.

Hybognathus Agassiz, 223; haplotype *H. NUCHALIS* Ag.

Ptychocheilus Agassiz, 227; logotype *PTYCHOCHEILUS GRACILIS* Ag. = *CYPRINUS OREGONENSIS* Rich.

Mylocheilus Agassiz, 229; haplotype *MYLOCHEILUS LATERALIS* Ag.

521. AYRES (1855). *Description of New species of California Fishes*. Proc. Cal. Acad. Sci., I, 1855.

WILLIM O. AYRES.

Leptogunnellus Ayres, 26; orthotype *L. GRACILIS* Ayres. A synonym of *LUMPENUS*.
Anarrhichthys Ayres, I, 33; orthotype *A. OCELLATUS* Ayres.

Mylopharodon Ayres, 33; orthotype *M. ROBUSTUS* Ayres.

Cebedichthys Ayres, I, 59; orthotype *C. VIOLACEUS* Ayres.

Notorhynchus Ayres, I, 72; orthotype *N. MACULATUS* Ayres.

Calycilepidotus Ayres, I, 76; orthotype *C. SPINOSUS* Ayres.

522. BASILEWSKI (1855). *Ichthyographia Chinae Borealis*. Nouv. Mém. Soc. Nat. Moscou, X.

STEPHANUS BASILEWSKI.

Nasus Basilewski, 234; orthotype *CYPRINUS NASUS* L. A synonym of *CHONDROSTOMA* Ag.

Leptocephalus Basilewski, 234; logotype *L. MONGOLICUS* Basilewski. Name preoccupied in eels; replaced by *CHANODICHTHYS* Blkr.

Cephalus Basilewski, 235; orthotype *C. MANTSCHURICUS* Basilewski. Name preoccupied; a synonym of *HYPOPHthalmichthys* Blkr.

Culter Basilewski, 236; logotype *C. ALBURNUS* Basilewski, as restricted by Bleeker and Günther. Under the head of *CULTER* Basilewski mentions especially (*CYPRINUS CULTRATUS* L.) the type of *PELECUS* Ag., although he does not exactly specify this as type. He then proceeds to describe certain Chinese species. For some of these the name *CULTER* has been kept, although Basilewski plainly intended to make his type *CYPRINUS CULTRATUS*, in which case *CULTER* would be a synonym of *PELECUS*.* At present we follow the authority of Bleeker and Günther.

Eperlanus Basilewsky, 242; orthotype *E. CHINENSIS* Basilewsky = *SALANX HYALOCRANIUS* Abbott. Name preoccupied; a synonym of *SALANX* Cuv.

Osteoglossum Basilewski, X, 244; logotype *O. PRIONOSTOMA* Basilewski. Name preoccupied by *OSTEOGLOSSUM* Vandelli. A synonym of *CHÆTOMUS* McCl.

Apterigia Basilewski, 247; logotype *A. SACCOGLARIS* Basilewski. A synonym of *MONOPTERUS* Lac. or *FLUTA* Bl. & Schn.

523. BIANCONI (1855). *Specimina zoologica Mosambicana quibus vel novæ vel minus notæ animalium species illustrantur*. Bononiæ.

GIOVANNI GIUSEPPE BIANCONI (1809-1878).

Megalepis Bianconi, 270; orthotype *M. ALESSANDRAI* Bianconi (= *UPENOIDES VITATUS*, *fide* Günther). A synonym of *UPENOIDES* Blkr.

524. BIBRON (1855). *Note sur un travail inédit de Bibron relatif aux poissons plectognathes gymnodontes (Diodons et Tetrodons)*. Rev. Mag. Zool., VIII.

GABRIEL BIBRON.

This is an important piece of work, but left incomplete at the death of its author, hence becoming in some degree a stumbling block in taxonomy. It was ably continued with the same material by Hollard in 1857. Edited by Auguste Henri Duméril.

Promecocophalus Bibron, 279; orthotype *TETRAODON LÆVIGATUS* L. A synonym of *LAGOCEPHALUS* Sw.

Dilobomycter Bibron, 279; orthotype *T. RETICULARIS* Bl. & Schn. A synonym of *OVIDES*.

Amblyrhynchotus Bibron, 279; orthotype *TETRAODON HONCKENI* Bloch. (in French form only). Apparently distinct from *LAGOCEPHALUS* Sw.

Stenometopus Bibron, 279; logotype *TETRAODON TESTUDINEUS* L. A synonym of *SPHEROIDES* Dum.

Dichotomycter Bibron, 279; orthotype *TETRAODON PLUVIATILIS* Ham. A synonym of *TETRAODON* L. Later called *BRACHYCEPHALUS* by Hollard.

Epipedorhynchus Bibron, 279; orthotype *TETRAODON PREYCINETI* Bibron. No diagnosis. A synonym of *OVIDES* Cuv.

Geneion Bibron, 280; orthotype *G. MACULATUS* Bibron. Apparently a synonym of *LAGROCEPHALUS* Sw.

Catophorhynchus Bibron, 280; orthotype *C. LAMPRI* Bibron. Probably a synonym of *LAGOCEPHALUS* Sw.

Batrachops Bibron, 280; orthotype *TETRAODON PSITTACUS* Bl. & Schn. Name preoccupied; replaced by *COLOMESUS* Gill.

Monotreta Bibron, 280; orthotype *TETRAODON CUTCUTIA* Ham. (French form only), the Latin given by Hollard, 1857; also spelled *MONOTRETUS*. A synonym of *LEIODON* Sw.

Rhynchotus Bibron, 280; orthotype *TETRAODON GRONOVII* Cuv. A synonym of *CANTHIGASTER* Sw.

Ephippion Bibron, 280; orthotype *E. MACULATUM* Bibron = *TETRAODON GUTTIFER* Bennett, 1830. Regarded as twice preoccupied as *EPHIPPIUM*, therefore replaced by *HEMICONIATUS* Gthr., 1870.

Aphanacanthus Bibron, 280; orthotype *T. RETICULATUS* Bibron. No diagnosis. Regarded by Bleeker as identical with *MONOTRETA* (= *LEIODON*). A synonym of *LEIODON* Sw.

Xenopterus Bibron, 281; orthotype *X. BELLENGERI* Bibron = *TETRAODON NARITUS* Rich. A synonym of *CHONERHINOS* Blkr. (1854). *CHONERHINOS* has clear priority, as claimed by Bleeker.

525. BLEEKER (1855). *Over eenige visschen van Van Diemensland*. Verh. Akad. Amsterdam, II, 1855, 1-30.

PIETER BLEEKER.

Upeneichthys Bleeker, 7; orthotype *UPENEUS POROSUS* Cuv. & Val.

Brachionichthys Bleeker, II, 12; logotype *B. POLITUS* Blkr.

Gnathanacanthus Bleeker, II, 21; orthotype *G. GOETZI* Blkr. Replaces *HOLOXENUS* Gthr.

526. BLEEKER (1855). *Derde bijdrage tot de kennis der ichthyologische fauna van de Kakos-eilanden*. Neder. Tijdschr. Dierk., III.

PIETER BLEEKER.

Amphiprionichthys Bleeker, III, 172; orthotype *MICROPUS UNIFINNA* Gray. Replaces *MICROPUS* Gray, preoccupied.

527. BLEEKER (1855). *Bijdrage tot de kennis der ichthyologische fauna van de Batae-eilanden*. Nat. Tijdschr. Neder-Indie, VIII.

PIETER BLEEKER.

Dinematichthys Bleeker, 318; orthotype *D. ILUOCETOIDES* Blkr.

528. BLEEKER (1855). *Visschen van de Duizend-eilanden*. Nat. Tijdschr. Neder-Indie, VIII, 1855, 344.

PIETER BLEEKER.

Serranichthys Bleeker, 344; orthotype *SERRANUS ALTIVELIS* Cuv. & Val. A synonym of *CROMILEPTES* Sw. as restricted by Bleeker and by Swain.

529. BLEEKER (1855). *Zesde bijdrage tot de kennis der ichthyologische fauna van Amboina*. Nat. Tijdschr. Neder-Indie, VIII.

PIETER BLEEKER.

Uraspis Bleeker, VI, 418; orthotyp U. *CARANGOIDES* Blkr. Near *SELENIA* Bon.; perhaps a synonym of the latter.

530. BLEEKER (1855). *Nalezingen op de vischfauna van Sumatra. Visschen van Lahat en Sibogha*. Nat. Tijdschr. Neder-Indie, IX, 1855, 257-280.

PIETER BLEEKER.

Luciosoma Bleeker, IX, 258; orthotype *BARBUS* Cuv. & Val.

Schismatorhynchus Bleeker, IX, 258; orthotype *LOBOCHEILUS HETERORHYNCHOS* Blkr.

Clupeichthys Bleeker, IX, 275; orthotype *C. GONIOGNATHUS* Blkr. A synonym of *CORICA* Ham.

Epalzeorhynchus Bleeker, IX, 279, 258; orthotype *BARBUS KALOPTERUS* Blkr.

531. BRONN (1855). *Lethæa Geognostica, oder Abbildungen und Beschreigen der für die Gebirgs-Formation bezeichnendsten Versteinerungen*. Stuttgart, Ed. I, 1834; Ed. III, 1855.

HEINRICH GEORG BRONN (1800-1862).

Archæoteuthis (Roemer) Bronn, I, 520, ed. III; orthotype *PTERASPIS DUNENSIS* Huxley (fossil). A synonym of *PTERASPIS* Kner.

Heptadiodon Bronn, III, 677; orthotype *ENNEODON ECHINUS* Heckel (fossil). Name substitute for *ENNEODON* Heckel, preoccupied.

532. CASTELNAU (1855). *Expédition dans les parties centrales de l'Amérique du Sud, de Rio de Janeiro à Lima, et de Lima à Para; exécutée . . . pendant les années 1834 à 1844*. (Tome 3.)

(COMTE) FRANÇOIS L. DE LAPORTE DE CASTELNAU (1812-1880).

Plataxoides Castelnau, 21; orthotype *P. DUMERILI* Castelnau. A synonym of *PTEROPHYLLUM* Heckel.

Genidens Castelnau, 33; tautotype *BAGRUS GENIDENS* Cuv. & Val. = *GENIDENS CUVIERI* Castelnau.

Sternarchorhynchus Castelnau, 95; orthotype *STERNARCHUS OXYRHYNCHUS* M. & T. = *STERNARCHORHYNCHUS MULLERI* Castelnau; replaces *RHAMPHO-STERNARCHUS* Gthr., 1870.

Acanthodemus Castelnau; logotype *HYPOSTOMUS AURANTIACUS* Castelnau; name in French only (*ACANTHODÈMES*), latinized by Marschall (*Nomenclator Zoologicus*, 1873).

533. COSTA (1855). *Su di un nuovo genere di pesce fossile (Cacus)*. Atti Reale Accad. Sci. Napoli, II.

ORONZIO GABRIELE COSTA.

Cacus Costa, II, 234. (Noted by Dean and Eastman, not by Woodward. Probably a misprint for *CÆUS* Costa (C. LEOPOLDI, 1864).)

534. EGERTON (1855). *Fish: . . .* (In *Figures and Descriptions of British Organic Remains*.) Mem. Geol. Surv. United Kingdom.

PHILIP DE MALPAS GREY EGERTON.

Oxygnathus Egerton, VIII, No. 9; orthotype *O. ORNATUS* Egert. (fossil).

535. FILIPPI (1855). (*Gadopsis*.) Zeitschr. Akad. Wiss. Wien, VII.

FILIPPO DE FILIPPI (1814-1867).

Gadopsis Filippi, VII, 170; orthotype *OLIGORUS ATER* Risso. Name preoccupied by *GADOPSIS* Rich. (1844). It may be replaced by the new name, *VERATER* Jordan, orthotype *OLIGORUS ATER* Risso.

536. HOLBROOK (1855). *Ichthyology of South Carolina*. (Edition of 1855 nearly but not all destroyed by fire; replaced in 1860 by a second edition. The generic names should date from 1855.

JOHN EDWARDS HOLBROOK (1796-1871).

Diplectrum Holbrook, 32; orthotype *D. FASCULARIS* Holbrook = *PERCA FORMOSA* L.

Lagodon Holbrook, 59; orthotype *SPARUS RHOMBOIDES* L.

Bothrolæmus Holbrook, 80; orthotype *TRACHINOTUS PAMPANUS* Cuv. & Val. (*TRACHINOTUS CAROLINUS*). A synonym of *TRACHINOTUS*.

Homoprión Holbrook, 168 (second edition, 1860); orthotype *H. LANCEOLATUS* Holbrook. A synonym of *STELLIFER* (Cuvier) Oken.

537. KAUP (1855). *Enchelynassa, neue Gattung aus der Familie der Aale*. Arch. Naturgesch. XXI.

JOHANN JACOB KAUP.

Enchelynassa Kaup, 213; orthotype *E. BLEEKERI* Kaup. Perhaps the same as *ENCH-LYCORE* Kaup (1856).

538. KAUP (1855). *Uebersicht über die Species einiger Familien der Scleradermen*. Wiegmann's Arch. Naturg., XXI.

JOHANN JACOB KAUP.

Cibotion (Kaup), 215; orthotype *OSTRACION CUBICUS* L. A synonym of *OSTRACION* as here restricted.

Capropygia (Gray) Kaup, 220; orthotype *C. UNISTRIATA* Gray.

Centaurus Kaup, 221; orthotype *OSTRACION BOOPS* Rich. A larva of *MOLA*.

Kentrocabros Kaup, 221; orthotype *OSTRACION ACULEATUS* Houttuyn

Anoplocabros Kaup, 221; orthotype *A. GRAYI* Kaup.

Dicotyllichthys Kaup, 230; orthotype *D. PUNCTULATUS* Kaup.

Cyanichthys Kaup, 231; orthotype *C. CÆRULEUS* Kaup (not of Q. & G.) = *DIODON TIGRINUS* Cuv. A synonym of *CHILOMYCTERUS* Bibron.

Cyclichthys Kaup, 231; logotype *DIODON ORBICULARIS* Bloch.

Pyrodon Kaup; orthotype *BALISTES NIGER* Lac. Name a substitute for *XENODON*, preoccupied. Later than *ZENODON* Sw., *ODONUS* Gistel and *ERYTHRODON* Ruppell, substitutes for *XENODON*.

539. KNER (1855). *Ichthyologische Beiträge*. Abh. Sitzb. Akad. Wiss. Wien, XVII. RUDOLF KNER.

Bunocephalus Kner, XVII, 95; type *B. VERRUCOSUS* Bloch.

Oxydoras Kner, XVII, 115; orthotype *DORAS NIGER* Kner, not of Val. — *OXYDORAS KNERI* Btkr

Clarotes Kner, XVII, 313; orthotype *PIMELODUS LATICEPS* Ruppell.

Pareiodon Kner, XVII, 611; orthotype *P. MICROPS* Kner. Spelled *PARIODON* by Gunther.

540. M'COY (1855). *Descriptions of the British Palæozoic Fossils in the Geological Museum of the University of Cambridge*

FREDERICK M'COY.

Diplopterax M'Coy, 586; orthotype (*D. MACROLEPIDOTUS* Ag.) (fossil). Name a substitute for *DIPLOPTERUS*, preoccupied

Triplopterus M'Coy, 589; orthotype **TRIPTERUS POLLEXFENI** M'Coy (fossil). A synonym of **OSTEOLEPIS**; name a substitute for **TRIPTERUS**, preoccupied.

Pœcilodus M'Coy, 638; logotype **P. JONESI** (Ag.) M'Coy (fossil) as restricted by Woodward.

Pristicladodus M'Coy, 642; orthotype **P. DENTATUS** M'Coy (fossil). A synonym of **DICRENODUS** Romanovskii.

541. MEYER (1855). *Physichthys höningshausi aus dem Uebergangskalke der Eifel*. Palæontographica, IV.

HERMANN MEYER.

Physichthys Meyer, IV, 80; orthotype **ASTEROLEPIS HÖENINGSHAUSI** Ag. (fossil). A synonym of **MACROPETALICHTHYS**.

542. NILSSON (1855). *Skandinavisk fauna*. Fjerde Delen: *Fiskarna*. Lund. XXXIV.

SVEN NILSSON.

Blenniops Nilsson, IV, 184; orthotype **BLENNIUS GALERITA** Pennant, not of Linnæus. A synonym of **CHIROLOPHIS** Sw.

Ctenodon Nilsson, IV, 190; orthotype **CLINUS MACULATUS** Fries. Name three times preoccupied; replaced by **LEPTOCLINUS** Gill.

543. PETERS (1855). *Uebersicht der in Mossambique beobachteten Seefische*. Monatsber. Akad. Wiss. Berlin.

WILHELM CARL HARTWIG PETERS.

Ctenopoma Peters, XXI, 1, 247; orthotype **C. MULTISPINIS** Peters, not **CTENOPOMA** of Heckel, 1856.

Pteragogus Peters XXI 261; orthotype **COSSYPHIUS OPERCULARIS** Peters.

Anosmius Peters, XXI, 274; orthotype **T. TENIATUS** Peters. A synonym of **CÆNTHIGASTER** Sw.

Cælonotus Peters XXI, 465; orthotype **C. ARGULUS** Peters.

544. ROEMER (1855). *Palæoteuthis, eine Gattung nackter Cephalopoden in devonischen Schichten der Eifel*. Palæontographica, IV.

CARL FERDINAND VON ROEMER.

Palæoteuthis Roemer, IV, 72; orthotype **PTERASPIS DUNENSIS** Huxley (fossil) (wrongly supposed to be a cuttle-fish). A synonym of **PTERASPIS** Kner.

545. STORER (1855). *A History of the Fishes of Massachusetts*. Mem. Amer. Acad. Arts. Sci. Boston, V.

DAVID HUMPHREYS STORER.

Cheilonemus (Baird) Storer, 285; haplotype **LEUCISCUS PULCHELLUS** Storer = **CYPRINUS CORPORALIS** Mitchill. Same as **LEUCOSOMUS** Heckel, regarded as preoccupied by **LEUCOSOMA**.

546. VALENCIENNES (1855). *Ichthyologie de la Voyage de la Vénus*.

ACHILLE VALENCIENNES.

Doydixodon Valenciennes; orthotype **D. FREMINVILLEI** Val.

Passer (Klein) Valenciennes, 344; haplotype **P. MARCHIONESSARUM** Val. Name preoccupied in birds. A synonym of **PLATOPHYRUS** Sw.

Smecticus Valenciennes, 305; orthotype **SMECTICUS BICOLOR** Val. A synonym of **RYPTICUS**.

1856

547. AGASSIZ (1856). *The Habits of the Glanis of Aristotle*. Proc. Amer. Acad. Sci. Arts. Sci. III.

LOUIS AGASSIZ.

Glanis Agassiz; orthotype GLANIS ARISTOTELIS Ag.; not GLANIS Ag., 1829, a substitute for BAGRE; not GLANIS Gronow, 1854. Same as PARASILURUS Blkr.

548. ASMUSS (1856). *Das vollkommene Hautskelet der bisher bekannten Thierreihe. An fossilen Fischen des alten rothen Sandsteins aufgefunden und aus ihren Resten erläutert*. Abh. Erlangung der Magisterwürde, Dorpat.

HERMANN ASMUSS.

Heterosteus Asmuss, 7; orthotype ASTEROLEPIS ASMUSSE Ag. A synonym of ICHTHYOSAURIDES Kutorga.

Homostius Asmuss, 8; orthotype II. FORMOSISSIMUS Asmuss (fossil). (Name corrected to HOMOSTEUS.)

549. BLEEKER (1856). *Beschrijvingen van nieuwe en weinig bekende vischsoorten van Amboina, verzameld op eene reis door den Molukschen Archipel, gedaan in het gevolg van den Gouverneur-Generaal Duymaer van Twist in September en October, 1855*. Act. Soc. Sci. Indo-Nederl., I.

PIETER BLEEKER.

Pteroidichthys Bleeker, I, 33; orthotype P. AMBOINENSIS Blkr.

Duymæria Bleeker, I, 52; logotype CRENILABRUS AURIGARIA Rich.

550. BLEEKER (1856). *Beschrijvingen van nieuwe en weinig bekende vischsoorten van Menado en Makassar grootendeels verzameld op eene reis naar den Molukschen Archipel in het gevolg van den Gouverneur-General Duymaer van Twist*. Act. Soc. Sci. Indo-Nederl., I.

PIETER BLEEKER.

Heterophthalmus Bleeker, 43; orthotype II. KATOPRON Blkr. Name preoccupied in beetles, Blanchard, 1851. A synonym of ANOMALOPS Kner, 1858.

Rhomboidichthys Bleeker, I, 67; orthotype R. MYRIASTER Blkr. A synonym of PLATOPHYRYS Sw.

Leptocephalichthys Bleeker, I, 69; orthotype L. HYPSSELOSOMA Blkr. A larval form allied to CONGER.

551. BLEEKER (1856). *Bijdrage tot de kennis der ichthyologische fauna van het eiland Boecoe*. Nat. Tijdschr. Neder. Indie. XI.

PIETER BLEEKER.

Scorpænichthys Bleeker, XI, 385, 402; orthotype SCORPENA Gibbos. Name preoccupied (Girard, 1854); a synonym of SCORPENOPSIS Heckel.

Pholidichthys Bleeker, 406; orthotype P. LEUCOTENIA Blkr.

Gobiodon (Kuhl & Van Hasselt) Bleeker, 407; logotype GOMBUS HETEROSPILUS Blkr.

Culius Bleeker, 411; orthotype ELECTRIS NIGER Blkr. CHEILODIPTERUS CULIUS Ham. A synonym of ELECTRIS as restricted.

Butis Bleeker, 42; orthotype BUTIS GYMNOPTOMUS Blkr. (tautotype CHEILODIPTERUS TERUS. BUTIS Ham.).

552. BLEEKER (1856). *Bijdrage tot de kennis der ichthyologische fauna van Nias*. Nat. Tijdschr. Neder.-Indie, XII.

PIETER BLEEKER.

Solenognathus Bleeker, 218; orthotype SYNGNATHOIDES BLOCHI Blkr.; also written SOLEGNATHUS. A synonym of SYNGNATHOIDES Blkr., equivalent to GASTROTOKEUS Heckel.

Xiphochilus Bleeker, 223; orthotype X. TYPUS Blkr.

553. BLEEKER (1856). *Nieuwe bijdrage tot de kennis der ichthyologische fauna van Bali*. Nat. Tijdschr. Neder.-Indie, XIII.

PIETER BLEEKER.

Belobranchus Bleeker, 300; orthotype ELEOTRIS BELOBRANCHA Cuv. & Val.

554. COSTA (1856). *Ittiologia fossile Italiana. Edizione simile all' opera dell' Agassiz sui pesci fossili alla quale è destinata a supplimento*. Disp. v. Napoli.

ORONZIO GABRIELE COSTA.

Dichelospondylus Costa, 13; orthotype D. LONGIROSTRIS Costa (fossil). A synonym of BELONOSTOMUS Ag.

Ophirachis Costa, 13; orthotype O. DEPERDITUS Costa (fossil). Probably a synonym of BELONOSTOMUS.

Anomiophthalmus Costa, 30; orthotype A. VETUSTUS Costa (fossil). Probably identical with CÆLODUS and COSMODUS and of earlier date than the latter.

555. DUMÉRIL (1856). *Ichthyologie analytique ou classification des poissons, suivant la méthode naturelle, à l'aide de tableaux synoptiques*. Mém. Acad. Sci. Paris, XXVII.

ANDRÉ MARIE CONSTANT DUMÉRIL.

Heptatrema C. Duméril; orthotype PETROMYZON CIRRHATUS Forster. A synonym of EPTATRETUS Cloquet.

Pastinaca Duméril; tautotype RAJA PASTINACA L. A synonym of DASYATIS Raf.

Ptérure Duméril, 169; orthotype SYNGNATHUS ÆQUOREUS Gmelin (name in French only). A synonym of NEROPHIS Raf.

Péromere Duméril, 170; logotype SYNGNATHUS RONDELETT De la Roche (name in French only). A synonym of TYPHLE or TYPHLINUS Raf. In this volume of Duméril a list of genera of eels is given by Kaup in advance of its publication elsewhere. But in the same year, apparently before the appearance of Duméril's work, Kaup published his *Catalogue of Apodal Fishes*, and several of the names given by him to Duméril were dropped in this completed work.

Auchenichthys (Kaup) Duméril, 198; orthotype A. TYPUS Kaup. Name only; an ally of MURÆNICHTHYS.

Leiurus (Kaup) Duméril, 198; orthotype MURÆNA COLUBRINA Boddaert. Name twice preoccupied in Swainson; replaced by CHLEVASTES Jordan & Snyder.

Scytallurus (Kaup) Duméril, 199; orthotype SPHAGEBRANCHUS IMBERBIS De la Roche. A synonym of CÆCULA Vahl, 1794.

Enchelycotte (Kaup) Duméril, 200; orthotype ENCHELYCORE EURHINA Kaup. A manuscript name changed to ENCHELYCORE when printed in 1854.

Memarchus (Kaup) Duméril, 201; orthotype GYMNOTUS ALBIFRONS L. No definition; a synonym of APTERONOTUS Lac. = STERNARCHUS Cuv.

Altona (Kaup) Duméril, 201; orthotype GYMNOTUS ROSTRATUS L. (no definition), a synonym of RHAMPHICHTHYS M. & T.

Unipertura (Kaup) Duméril, 201; orthotype UNIBRANCHAPERTURA LÆVIS Lac. An abridgment of UNIBRANCHAPERTURA Lac.; a synonym of FLUTA Bl. & Schn. if regarded as a new name.

Giton (Kaup) Duméril, 201; orthotype GYMNOTUS FASCIATUS Pallas. = GYMNOTUS CARAPO L. A synonym of GYMNOTUS L. No definition.

- Aptérichthe** C. Duméril, 205; orthotype *MURENA CAECA* L.; name in French only; given in Latin form, 1806. A synonym of *SPILAGEBRANCHUS* Bloch.
- Macrops** Duméril, 279; orthotype *SERRANUS ACULEATUS* (OCULATUS) Cuv. & Val. (name three times preoccupied). A synonym of *ETELIS* Cuv. & Val.
- Macrones** Duméril, 484; orthotype *BAGRUS LAMARRII* Cuv. & Val. Name pre-occupied in beetles (Newman, 1841); replaced by *AORIA* Jordan, type *BAGRUS LAMARRII* Cuv. & Val.
- Conostome** (for *CONOSTOMUS*) Duméril, 484; orthotype *PIMELODUS CONIROSTRIS* Cuv. & Val. Called *CONORHYNCHUS* by Bleeker.
- Diplomyste** (Le) Duméril, 487; haplotype *ARIUS PAPILLOUS* Cuv. & Val. Latinized as *DIPLOMYSTES* by Bleeker; *DIPLOMYSTAX* by Günther.
- Hydrocion** "ou mieux *HYDROCYNUS* Duméril," restricted to "une seule espèce du Nil" (*HYDROCYON FORSKALI* Cuv.). A synonym of *HYDROCYNUS* Cuv., 1817.

556, 557. GIRARD (1856). *Contributions to the Ichthyology of the Western Coast of North America from Specimens in the Smithsonian Institute* . . . Proc. Acad. Nat. Sci. Phila.

CHARLES GIRARD.

- Paralabrax** Girard, 131; orthotype *LABRAX NEBULIFER* Grd.
- Homalopomus** Girard, 132; orthotype *H. TROWBRIDGE* Grd. A synonym of *MERLUCCIUS* Raf.
- Oligocottus** Girard, 133; logotype *O. MACULATUS* Grd.
- Leiocottus** Girard, 133; orthotype *L. HIRUNDO* Grd.
- Artedius** Girard, VIII, 134; logotype *A. LATERALIS* Grd.
- Oplopoma** Girard, 135; orthotype *O. PANTHERINA* Grd. A synonym of *OPHIODON* Grd., 1854.
- 558 GIRARD (1856). *Researches Upon the Cyprinoid Fishes Inhabiting the Fresh Waters of the United States West of the Mississippi Valley, from Specimens in the Museum of the Smithsonian Institution*. Proc. Acad. Nat. Sci. Phila., VIII.

CHARLES GIRARD.

- Minomus** Girard, 173; haplotype *CATOSTOMUS INSIGNIS* Baird & Grd. A synonym of *CATOSTOMUS* Le Sueur, section *DECACTYLUS* Raf., 1818.
- Acomus** Girard, 173; logotype *CATOSTOMUS FORSTERIANUS* Rich. = *CYPRINUS CATOSTOMUS* Le Sueur. A synonym of *CATOSTOMUS* Le Sueur.
- Dionda** Girard, 176; logotype *D. EPISCOPA* Grd.
- Algoma** Girard, 180; logotype *A. AMARA* Grd. Not separable from *DIONDA*, both scarcely distinct from *HYBOGNATHUS*.
- Orthodon** Girard, 182; orthotype *GILA MICROLEPIDOTA* Ayres.
- Algansea** Girard, 182; orthotype *LEUCISCUS TINCELLA* Cuv. & Val.
- Agosia** Girard, 186; logotype *A. CHRYSOGASTER* Grd.
- Nocomis** Girard, 190; logotype *N. NEBRASCENSIS* Grd. = *RUTILUS KENTUCKIENSIS* Raf. = *LEUCISCUS BIGUTTATUS* Kirtland.
- Meda** Girard, 192; haplotype *MEDA FULGIDA* Grd.
- Cliola** Girard, 192; logotype *CERATICHTHYS VIGILAX* Baird & Grd. A synonym of *CERATICHTHYS* Baird & Grd., as first used; the name later taken for the genus *NOCOMIS*.
- Alburnellus** Girard, 193; orthotype *ALBURNUS DILECTUS* Grd. A synonym of *NOTROPIS* Raf. (1818).

Codoma Girard, 194; logotype *CODOMA ORNATA* Grd.

Alburnops Girard, 194; logotype *ALBURNOPS BLENNIUS* Grd.

Cyprinella Girard, 196; logotype *LEUCISCUS BUBALINUS* Baird & Grd. Probably a valid genus allied to *NOTROPIS* and *ALBURNOPS*.

Richardsonius Girard, 201; haplotype *ABRAMIS BALTEATUS* Baird & Grd. Probably distinct from *LEUCISCUS* Cuv. and from *TIGOMA* Grd.

Tiaroga Girard, 204; haplotype *TIAROGA COBITIS* Grd.

Moniana Girard, 199; logotype *LEUCISCUS LUTRENSIS* Baird & Grd. Not separable from *CYPRINELLA*.

Tigoma Girard, 205; logotype *GILA PULCHELLA* Baird & Grd. Probably a genus distinct from *LEUCISCUS* Cuv. and from *RICHARDSONIUS* Grd.

Cheonda Girard, 207; logotype *CHEONDA COOPERI* Grd. Probably not distinct from *TIGOMA*.

Siboma Girard, 209; haplotype *SIBOMA CRASSICAUDA* Baird & Grd. A section or genus close to *TIGOMA*.

Hudsonius Girard, 210; orthotype *CLUPEA HUDSONIA* Clinton. A section or subgenus of *NOTROPIS* or *ALBURNOPS*.

Clinostomus Girard, 211; logotype *LUXILUS ELONGATUS* Kirtland (not *CLINOSTOMUM*, a genus of worms). A section or subgenus near *NOTROPIS*.

Ceraticthys (Baird MS.) Girard, 212; haplotype *SEMOTILUS BIGUTTATUS* Kirtland (not *CERATICHTHYS* Baird & Grd., 1854). A synonym of *NOCOMIS* Grd.

559. HOLMES (1856). *Contributions to the Natural History of the American Devilfish, with Descriptions of a New Genus from the Harbor of Charleston, South Carolina*. Proc. Elliott Soc. Nat. Hist., I.

FRANCIS S. HOLMES

Diabolichthys Holmes, 39; orthotype *D. ELLIOTTI* Holmes. A synonym of *MANTA* Bancroft.

560. HECKEL (1856). *Neue Beiträge zur Kenntniss der fossilen Fische Oesterreichs*. Denkschr. Akad. Wiss. Wien, XI.

JOHANN JAKOB HECKEL.

Thrissopterus Heckel, XI, 245; orthotype *T. CATULLI* Heckel (fossil). A synonym of *MONOPTEROS* Volta (*PLATINX* Ag.)

Elopopsis Heckel, XI, 251; logotype *E. FENZLI* Heckel (fossil).

Carangodes Heckel, XI, 262; orthotype *C. CEPHALUS* Heckel (fossil). Perhaps to be regarded as preoccupied by *CARANGOIDES* Blkr., 1851.

Ctenopoma Heckel, XI, 272; orthotype *PYGÆUS JEMELKA* Heckel (fossil); preoccupied by *CTENOPOMA* Peters, 1855.

561. HECKEL (1856). *Ueber den Bau und die Eintheilung der Pycnodonten*, etc. Sitzb. Akad. Wiss. Wien, VIII, 433-464, 1854 (1856).

JOHANN JAKOB HECKEL.

Stemmatodus Heckel, XI, 202; orthotype *PYCNODUS RHOMBUS* Ag. (fossil). Preoccupied; replaced by *STEMMATIAS* Hay, 1899.

Cœlodus Heckel, XI, 202, 455; orthotype *CÆLODUS SATURNUS* Heckel (fossil). If regarded as preoccupied by *CÆLODON* Lund, may be replaced by *COSMODUS* Sauvage, 1879.

562. KAUP (1856). *Uebersicht der Aale*. Arch. Naturg.

JOHANN JACOB KAUP.

In this paper occurs the first diagnosis of the many genera of eels,

published in the same year as the *Catalogue of the Apodal Fish*. The pagination of the volume last mentioned is given in parentheses in the following list:

563. KAUP (1856). *Catalogue of the Apodal Fish in the Collection of the British Museum*. London.

JOHANN JACOB KAUP.

Congerodon Kaup, 37; orthotype *C. INDICUS* Kaup. (Not in *Cat. Apodal Fishes*.)

Centrurrophis Kaup, 42 (2); logotype *C. SPADICEUS* Kaup. A synonym of *OPHICHTHUS* Ahl.

Pæcilocephalus Kaup, 43 (5); orthotype *P. BONAPARTEI* Kaup. A synonym of *OPHICHTHUS* Ahl.

Microdonophis Kaup, 43 (6) orthotype *M. ALTIPINNIS* Kaup. A synonym of *OPHICHTHUS*.

Cæcilophis Kaup, 44 (6); orthotype *C. COMPAR* Kaup. A synonym of *OPHICHTHUS*.

Herpetoichthys Kaup, 44 (7); orthotype *H. ORNATISSIMUS* Kaup. A synonym of *OPHICHTHUS*.

Brachysomophis Kaup, 45 (9); orthotype *B. HORRIDUS* Kaup.

Elapsopsis Kaup, 45 (9); orthotype *E. VERSICOLOR* Kaup (misprinted *ELAPSOPIS*). A synonym of *OPHICHTHUS*.

Mystriophis Kaup, 45 (10); orthotype *OPHISURUS ROSTELLATUS* Rich.

Murænopsis (Le Sueur) Kaup, 46 (11); orthotype *MURÆNOPHIS OCELLATUS* Le Sueur. This name was not used by Le Sueur, who wrote *MURENOPHIS* after Lacépède.

Echiopsis Kaup, 46 (13); orthotype *OPHISURUS INTERTINCTUS* Rich. A synonym of *MYSTRIOPHIS* Kaup.

Scytalophis Kaup, 46 (13); orthotype *S. MAGNIOCULIS* Kaup.

Leptorhinophis Kaup, 46 (14); orthotype *OPHISURUS GOMESI* Castelnau. A synonym of *SCYTALOPHIS* Kaup.

Pisodonophis Kaup, 47 (17); logotype *P. CANCRIVORUS* Kaup, as restricted by Bleeker. Later written *PISOODONOPHIS* by Kaup, and since spelled *PISODONTOPHIS* by purists.

Lamnostoma Kaup, 49 (24); logotype *L. PICTUM* Kaup.

Anguisurus Kaup, 50 (24); orthotype *A. PUNCTULATUS* Kaup. A synonym of *CÆCULA* Vahl.

Callechelys Kaup, 51 (28); orthotype *C. GUICHENOTI* Kaup.

Cirrhimuræna Kaup, 52 (27); orthotype *C. CHINENSIS* Kaup.

Ophisurapus Kaup, 52 (29); orthotype *O. GRACILIS* Kaup. Later written *OPHISURAPHIS*. A synonym of *SPHAGEBRANCHIUS* Bloch.

Myrus Kaup, 53 (31); orthotype *MURÆNA MYRUS* L. *MYRUS VULGARIS* Kaup. A synonym of *ECHELUS* Raf., as restricted by Bleeker.

Enchelynassa Kaup, 59 (72); orthotype *E. BLEEKERI* Kaup.

Eurymyctera Kaup, 59 (72); orthotype *E. CRUELIS* Kaup. A synonym of *GYMNOTHORAX*.

Siderea Kaup, 59 (70); orthotype *S. PFEIFFERI* Kaup. Later written *SIDERA*. A synonym of *GYMNOTHORAX*, as restricted by Bleeker.

Enchelycore Kaup, 60 (72); orthotype *MURÆNA NIGRICANS* Bonmatte.

Thyrsoidea Kaup, 60 (74); autotype *MURÆNA THYRSOIDEA* Rich., but first restricted to *MURÆNA MACRURA* Bleeker, by Bleeker. As understood by me, a synonym of *GYMNOTHORAX*. As used by Bleeker, the same as *ENCHELYS* J. & E.

Linamuræna Kaup 65 (95) orthotype *L. GUTTATA* Kaup. A synonym of *MURÆNA* L. as restricted by Ahl, 1789

Polyuranodon Kaup, 65 (96); orthotype *MURÆNA POLYURANODON* Blkr. A synonym of *GYMNOTHORAX*.

Pæcilophis Kaup, 66 (98); orthotype *GYMNOTHORAX CATENATUS* Bloch. A synonym of *ECHIDNA* Forster.

Aphthalmichthys Kaup, 68 (105); orthotype *A. JAVANICUS* Kaup.

Murænoblenna (Lacépède) Kaup, 67; orthotype *ICHTHYOPHIS TIGRINUS* Lesson, not of Lacépède, whose type *M. OLIVACEA* is a MYXINE. Kaup observes: "Ich kenne *M. OLIVACEA* nicht."

Congermuræna Kaup, 71 (108); logotype *MURÆNA BALEARICA* De la Roche, as restricted by Bleeker. A synonym of *ARIOSOMA* Sw., equivalent to *CONGRELLUS* Ogilby, 1898, who restricts *CONGERMURÆNA* to *C. HABENATA*, which probably belongs to *GNATHOPHIS* Blkr. The name is spelled *CONGROMURÆNA* by authors.

Uroconger Kaup, 71 (110); orthotype *U. LEPTURUS* Kaup.

Esunculus Kaup, 143; orthotype *E. COSTAI* Kaup. A larva, allied to *ALEPOCEPHALUS*. (Not in *Uebersicht*.)

564. KAUP (1856). *Einiges über die Unterfamilie Ophidinae*. Arch. Naturg., XXII.
JOHANN JACOB KAUP.

Cepolophis Kaup, I, 96; orthotype *OPHIDIUM VIRIDE* Fabricius. A synonym of *GYMNELIS* Reinh.

565. KAUP (1856). *Catalogue of the Lophobranchiate Fish in the Collection of the British Museum*. London.
JOHANN JACOB KAUP.

The various genera of Kaup, 1853, *HEMIMARSUPIUM* excepted, are in this paper with their redescribed species

Hemithylacus Kaup, 61; orthotype *SYNGNATHUS LEIASPIS* Kaup. An unexplained substitute for *HEMIMARSUPIUM* Kaup, 1853. Same as *COLONOTUS* Peters (1855).

566. LEIDY (1856). *Notice of Remains of Extinct Vertebrated Animals Discovered by Professor E. Emmons*. Proc. Acad. Nat. Sci. Phila., 1856.
JOSEPH LEIDY (1825-1891).

Ischyrrhiza Leidy, VIII, 256; logotype *I. MIRA* Leidy (fossil). Supposed to be a synonym of *PACHYRHIZODUS*.

567. LEIDY (1856). *Notices of Extinct Vertebrata Discovered by Dr. F. V. Hayden, During the Expedition to the Sioux Country Under the Command of Lieut. G. K. Warren*. Proc. Acad. Nat. Sci. Phila., VIII.
JOSEPH LEIDY.

Mylognathus Leidy, 312; orthotype *M. PRISCUS* Leidy (fossil). Probably a synonym of *EDAPHIODON*.

568. LEIDY (1856). *Indications of Five Species, with Two New Genera, of Extinct Fishes*. Proc. Acad. Nat. Sci. Phila., VII.
JOSEPH LEIDY.

Edestus Leidy, VII, 414; orthotype *E. VORAX* Leidy (fossil).

Sicarius Leidy, VII, 414; orthotype *S. EXTINCTUS* Leidy (fossil). A synonym of *PETALODUS*.

569. LEIDY (1856). *Description of Two Ichthyodorulites (Stenacanthus nitidus and Cyldrdracanthus ornatus)*. Amer. Journ. Sci., XXI.

JOSEPH LEIDY.

Stenacanthus Leidy, XXI, 8; orthotype *S. NITIDUS* Leidy (fossil) (also in *Proc. Acad. Nat. Sci. Phila.*, 1856, 11.). A synonym of *BOTHRIOLEPIS*.

Cylindrdracanthus Leidy, XXI, 8; orthotype *C. ORNATUS* Leidy. Regarded as a synonym of *CÆLORHYNCHUS* Ag., which name is preoccupied.

570. LEIDY (1856). *Remarks on Certain Extinct Species of Fishes*. Proc. Acad. Nat. Sci., VIII, 301. (Also in *Trans. Philos. Soc.*, XI, 1857.)

JOSEPH LEIDY.

Protosphyræna Leidy, 56, VIII, 302 (and XI, 95); orthotype *P. FEROX* Leidy (fossil).

Cimolichthys Leidy, VIII, 302 (also XI, 95); orthotype *C. LEWEIFENSIS* Leidy (fossil).

571. NEWBERRY (1856). *Description of Several New Genera and Species of Fossil Fishes from the Carboniferous Strata of Ohio*. Proc. Acad. Nat. Sci. Phila., VIII.

JOHN STRONG NEWBERRY (1822-1892).

Mecolepis Newberry, VIII, 96; logotype *M. GRANULATUS* Newberry (fossil). Name preoccupied, replaced by *EURVLEPIS* Newberry (1857).

Compsacanthus Newberry, 100; orthotype *PLEURACANTHUS LEVIS* Newberry (fossil). A synonym of *PLEURACANTHUS*.

572. PANDER (1856). *Monographie der fossilen Fische des silurischen Systems der russisch-baltischen Gouvernements*. St. Petersburg.

CHRISTIAN HEINRICH PANDER.

Rytidolepis Pander, 48; orthotype *R. QUENSTEDTI* Pander (fossil). Besides this nominal genus, the following additional generic names have been given in this paper by Pander. All are based on fragments of dermal armor, not identified and some of them, according to Eichwald (1860), likely to belong to Eurypterid crustaceans rather than to fishes. These are *COCCOPELTUS*, *CYPHOMALEPIS*, *TRACHYLEPIS* and *PHLEBOLEPIS*. The following is the list of these nominal genera and their type species as given by Woodward:

RYTIDOLEPIS (QUENSTEDTI), 48.

SCHEDIOSTEUS (MUSTESENSIS), 49.

COCCOPELTUS (ASMUSI), 50.

CYPHOMALEPIS (EGERTONI), 51.

TRACHYLEPIS (FORMOSA), 52.

STIGMOLEPIS (OWENI), 53.

DASYLEPIS (KEYSERLINGI), 54.

LOPHOLEPIS (SCHMIDTI), 55.

DICTYOLEPIS (BRONNI), 56.

ONISCOLEPIS (MAGNA, etc.), 58.

MELITTOMALFIS (ELEGANS), 60.

PHLEBOLEPIS (ELEGANS), 60.

PRIONACANTHUS (DUBIA), 70.

Stigmolepis Pander, 53; orthotype *S. OWENI* Pander (fossil)

Cælolepis Pander, 56; logotype *C. LEVIS* Pander (fossil).

Tolypelepis Pander, 61; orthotype *T. UNDULATUS* Pander (fossil) (fragment of a *PTERASPID*)

- Lophosteus** Pander, 62; orthotype *L. SUPERBUS* Pander (fossil).
Pachylepis Pander, 67; orthotype *P. GLABER* Pander (fossil). A synonym of *THELODUS* Ag.
Thelolepis Pander, 67; orthotype *THELODUS PARVIDENS* Ag. (fossil). A synonym of *THELODUS* Ag.
Nostolepis Pander, 68; orthotype *N. STRIATA* Pander (fossil).
Rabdacanthus Pander 69; orthotype *R. TRUNCATUS* Pander (fossil).
Odontotodus Pander, 75; orthotype *O. ROOTSIKULLIENSIS* Pander (fossil). A
Gomphodus Pander 76; orthotype *G. SANDELENSIS* Pander (fossil).
 synonym of *STIGMOLEPIS* Pander.

573. RICHARDSON (1856). *Ichthyology*. (In *Encyclopedia Britannica*, I, London.)
 JOHN RICHARDSON.

Xanthichthys (Kaup) Richardson, XII, 313; orthotype *BALISTES CURASSAVICUS* Gmelin.

574. THOMPSON (1856). *The Natural History of Ireland*. London.
 WILLIAM THOMPSON.

Couchia Thompson, IV, 188; orthotype *COUCHIA MINOR* Thompson. A larval form of *CILIATA*.

1857

575. BAIRD (1857). *Report on the Fishes Observed on the Coast of New Jersey and Long Island During the Summer of 1854*. From the ninth annual report of the Smithsonian Institution for 1854.

SPENCER FULLERTON BAIRD.

Eucinostomus Baird, 345; orthotype *E. ARGENTEUS* Baird = *GERRES GULA* Cuv. & Val.

576. BELLOTTI (1857). *Stoppani Studii Geol. e Palcontol.* Lombardia.
 CRISTOFORO BELLOTTI.

Urolepis Bellotti, 431; orthotype *U. MACROPTERA* Bellotti (fossil).

Heptanema Bellotti, 435; orthotype *H. PARADOXUM* Bellotti (fossil).

Ichthyorhynchus Bellotti, 436; orthotype *I. CURIONI* Bellotti (fossil). A synonym of *SAURORHYNCHUS*.

577. BLEEKER (1857). *Achtste bijdrage tot de kennis der vischfauna van Amboina*. Act. Soc. Sci. Indo-Nederl., II.

PIETER BLEEKER.

Cirrhitichthys Bleeker, II, 39; orthotype *CIRRHITES GRAPHIDOPTERUS* Blkr. = *CIRRH. APRINUS* Cuv. & Val.

Oxycirrhites Bleeker, II, 39; orthotype *O. TYPUS* Blkr.

578. BLEEKER (1857). *Nieuwe nalezingen op de ichthyologie van Japan*. Verh. Bat. Gen.

PIETER BLEEKER.

Lateolabrax Bleeker, XXVI, 53; orthotype *LABRAX JAPONICUS* Cuv & Val. Same as *PERCA-LABRAX* T. & S., but this word may not have been meant as a new name.

579. BLEEKER (1857). *Bijdrage tot de kennis der ichthyologische fauna van de Sangi-eilanden*. Nat. Tijdschr. Neder.-Indie, XIII.

PIETER BLEEKER.

Scorpænodes Bleeker, 371; orthotype *SCORPENA POLYLEPIS* Blkr. Replaces *SEBASTOPSIS* Gill.

Eleotriodes Bleeker, XIII, 372; orthotype *E. SENGUTTATA* Blkr. *E. HELDSINGENTI* Blkr., sometimes named as type, occurs in a later paper.

Bogoda Bleeker, 468; orthotype *CHANDA NAMA* Ham. A synonym of *CHANDA* as restricted.

580. COSTA (1857). *Descrizione di alcuni pesci fossili del Libano*. Mem. Reale Accad. Napoli, II, 97-112.

ORONZIO GABRIELE COSTA.

Imogaster Costa, II, 102; orthotype *I. AURATUS* Costa (fossil).

Omosoma Costa, II, 105; orthotype *O. SACHELALMÆ* Costa (fossil).

Rhamphornimia Costa, II, 108; orthotype *R. RHINELLOIDES* Costa (fossil).

581. EGERTON (1857). *Paleolithic Notes on Some Fish Remains from the Neighborhood of Ludlow*. Quart. Journ. Geol. Sci., XIII.

PHILIP DE MALPAS GREY EGERTON.

Auchenaspis Egerton, XIII, 286; orthotype *A. SALTERI* Egert. (fossil). A synonym of *THYESTES* Eichw.

581A. EMMONS (1857). *American Geology*, etc. Ed. I.

EBENEZER EMMONS (1799-1863).

Rabdiolepis Emmons, VI, 45; orthotype *R. SPECIOSUS* Emmons (fossil) (fragment of a scale) (not *RIABDIOLEPIS* Troschel).

Microdus Emmons, VI, 48; orthotype *M. LEVIS* Emmons (a shark tooth of uncertain relations).

582. GERVAIS (1857). *Sur un poisson labroïde fossile dans les sables marins de Montpellier (Labrodon pavimentatum)*. Mém. Acad. Sci. Montpellier, III.

FRANÇOIS LOUIS PAUL GERVAIS.

Labrodon Gervais, III, 515; orthotype *L. PAVIMENTATUM* Gervais (fossil).

583. GIRARD (1857). *Contributions to the Ichthyology of the Western Coast of the United States, from Specimens in the Museum of the Smithsonian Institution*. Proc. Acad. Nat. Sci. Phila., VIII.

CHARLES GIRARD.

Chiropsis Girard, IX, 201; orthotype *CHIURUS CONSTELLATUS* Grd. (male of *H. DECAGRAMMUS*). A synonym of *HEXAGRAMMOS* Steller.

Zaniolepis Girard, IX, 202; orthotype *Z. LATIPINNIS* Grd. Misquoted as *ZANIODERMIS* by Gunther (1860).

584. HOLLARD (1857). *Études sur les gymnodontes et en particulier sur leur ostéologie et sur les indications qu'elle peut fournir pour leur classification*. Ann. Sci. Nat. (Zool.), VIII.

HENRI LOUIS GABRIEL MARC HOLLARD (1801-1866).

Apsicephalus Hollard, 275; orthotype *TETRODON FLUVIATILIS* Ham. No type named; said to be equivalent to *DICHOTOMYCTER* Bibron, but including several other of Bibron's genera. Apparently a valid genus to be called *DICHOTOMYCTER*.

Brachycephalus Hollard, VIII, 275; orthotype not named, the genus said to be equivalent to *TETRODON* of Bibron. *T. LINEATUS* L. may be assumed as type. A synonym of *TETRODON* L.

585. NEWBERRY (1857). *Fossil Fishes from the Devonian of Ohio*. Proc. Nat. Inst. Washington, I.

JOHN STRONG NEWBERRY

Agassichthys Newberry, 3; orthotype *PLACOTHORAX AGASSIZI* Meyer (fossil). A synonym of *MACROPETALICHTHYS* Ag.

Machæracanthus Newberry, 6; orthotype *M. PERACUTUS* Newberry (fossil).

Onychodus Newberry, 7; orthotype *O. SIGMOIDES* Newberry (fossil).

586. NEWBERRY (1857). *Letter Changing the Genus Mckolepis to Eurylepis, the Former Being Preoccupied.* Proc. Acad. Nat. Sci. Phila., IX.

JOHN STRONG NEWBERRY.

Eurylepis Newberry, 150; orthotype *MECOLEPIS GRANULATUS* Newberry (fossil). Substitute for *MECOLEPIS* Newberry, preoccupied.

587. PETERS (1857). *Neue Chromidengattung (Hemichromis).* Monatsber. Akad. Wiss. Berlin.

WILHELM CARL HARTWIG PETERS.

Hemichromis Peters, 403; orthotype *H. FASCIATUS* Peters.

588. PHILIPPI (1857). *Ueber einige chilenische Vögel und Fische, etc.* Arch. Naturgesch.

RUDOLPH AMANDUS PHILIPPI (b. 1808).

Genypterus Philippi, 268; orthotype *G. NIGRICANS* Philippi.

Thysanochilus Philippi, 268; orthotype *T. VALDIVIANUS* Philippi. A synonym of *VELASIA* Gray, suppressed (but printed) by Troschel, editor of the *Archiv.* Not *THYSANOCHILUS* Kner, 1865.

Rhynchobatis Philippi, 270; orthotype a ray from Juan Fernandez, not given a specific name, only the dried head with long, flat snout preserved. Name preoccupied as *RHYNCHOBATUS*. This animal is described as a ray with a long, thin, flat snout, rounded at the tip apparently like that of the shark, *MITSUKURINA*. Its surface below, except at the smooth base, is covered by small stellate prickles, curved backward at tip. Larger spinules cover the head with six still larger ones forming a curve around the eye. As this form, obviously distinct, is without a name, it has been called *TARSISTES PHILIPPI* Jordan.

589. RICHARDSON (1857). *On Siphonognathus, a New Genus of Fistulariæ.* Proc. Zool. Soc. London.

JOHN RICHARDSON.

Siphonognathus Richardson, 237; orthotype *S. ARGYROPHANES* Rich.

590. RÜTIMEYER (1857). (*Encheiziphius.*) Verh. Ges. Basel, I.

CARL LUDWIG RÜTIMEYER.

Encheiziphius Rütimeyer, I, 561; orthotype *E. TERETIROSTRIS* Rütimeyer (fossil). A synonym or fossil homologue of *ISTIOPHORUS*.

591. TROSCHER (1857). *Beobachtungen über die Fische in den Eisennieren des Saarbrücker Steinkohlgebirges.* Verh. Naturh. Ver. Preuss. Rheinl. Westphal. FRANZ HERMANN TROSCHER.

Rhabdolepis Troschel, 15; logotype *PALÆONISCUM MACROPTERUM* Bronn (fossil). A synonym of *ELONICHTHYS* Giebel.

592. WAGNER (1857). *Characteristik neuer Arten von Knorpelfischen aus den lithographischen Schieferen der Umgegend von Solenhofen.* Gelehrte Anz. Bayer. Akad. Wiss., XLIV.

JOHANN ANDREAS WAGNER.

Palæoscyllium Wagner, XLIV, 291; orthotype *P. FORMOSUM* Wagner (fossil).

1858

593. AGASSIZ (1858). *Remarks on a New Species of Skate from the Sandwich Islands*. Proc. Boston Soc. Nat. Hist., 1858, VI.

LOUIS AGASSIZ.

Goniobatis Agassiz, VI, 385; orthotype *RAJA FLAGELLUM* Bl. & Schn. A synonym of *AETOBATIS* Blainv., as restricted by Müller & Henle. Same as *STOASODON* Cantor, 1850.

594. AGASSIZ (1858). *Remarks on New Fishes from Nicaragua Collected by Julius Fräbel*. Proc. Boston Soc. Nat. Hist., VI.

LOUIS AGASSIZ.

Parachromis Agassiz, VI, 401; orthotype *P. GULOSUS* Ag. (not identifiable, said to be a CICHLID (CICHROMID) resembling *DENTEX*, but with the lateral line broken. Probably a synonym of *CICHLAURUS* Sw.

Hypsophrys Agassiz, VI, 401; orthotype II. *UNIMACULATUS* Ag. No description. A CICHLID said to resemble *CHRYSOPHYRUS* (SPARUS) with a large, black shoulder spot (as in *ASTRONOTUS HELLERI* Steind. and other species). Probably a synonym of *ASTRONOTUS* Sw.

Baiodon Agassiz, VI, 401; orthotype *B. FASCIATUS* Ag. A slender form, said to resemble Boors Cuv. Possibly the same as *THERAPS IRREGULARIS* Gthr., but not identifiable.

Amphilophus Agassiz, VI, 401; orthotype *A. FRÆBELI* Ag., apparently *HEROS LABIATUS* Gthr. or *H. LOBOCHEILUS* Gthr. species in which the male has both lips greatly enlarged, "peculiar in not having the ordinary fleshy lips, but a large, triangular lobe projecting above and below jaw like the fleshy appendages of some bats" (Agassiz). It is possible that the species thus provided should stand as a distinct genus *AMPHILOPHUS*.

595. AYRES (1858). *On New Fishes of the Californian Coast*. Proc. Calif. Acad. Sci., 1858-1861 (1853), II.

WILLIAM O. AYRES.

Anoplopoma Ayres, II, 27; orthotype *A. MERLANGUS* Ayres. = *GADUS FIMBRIA* Pallas.
Stereolepis Ayres, II, 28; orthotype *S. GIGAS* Ayres.

596. BLEEKER (1858). *Zesde bijdrage (etc.) vischfauna van Sumatra (Visschen van Padang, etc.)*. Act. Soc. Neder.-Indie, III.

PIETER BLEEKER.

Helicophagus Bleeker, 45; orthotype II. *TYPUS* Blkr.

597. BLEEKER (1858). *Vierde bijdrage tot de kennis der ichthyologische Fauna van Japan*. Act. Soc. Sci. Indo-Neerl., III.

PIETER BLEEKER.

Sirembo Bleeker, 22; orthotype *BROTULA IMBERNIS* T. & S.

Congerodon (Kaup) Bleeker, 29; orthotype *C. INDICUS* Kaup MS. = *COGRUS LEPTURUS* Rich. Same as *UROCONGER* and of the same original date, 1856.

Triacanthodes Bleeker, 37; orthotype *TRICANTHUS ANOMALUS* T. & S.

598. BLEEKER (1858). *Tiende bijdrage tot de kennis der vischfauna van Celebes*. Act. Soc. Sci. Indo-Neerl., III.

PIETER BLEEKER.

Gunnellichthys Bleeker, III, 9; orthotype *G. PLEUROTAENIA* Blkr.

599. BLEEKER (1858). *Bijdrage tot de kennis der vischfauna van den Goram-Archipel*. Nat Tijdschr. Neder.-Indie, XV.

PIETER BLEEKER.

Pseudoplesiops Bleeker, XV, 217; orthotype *P. TYPUS* Bleeker.

600. BLEEKER (1858). *Vierde bijdrage (etc.) van Bilitou*. Nat. Tijdschr. Neder.-Indie, XV.

PIETER BLEEKER.

Leiocassis Bleeker, 225; orthotype *L. MICROPOGON* Blkr. Corrected by Günther to *LIOCASSIS*.

Silurichthys Bleeker, 225; orthotype *S. PHAIOSOMA* Blkr.

601. BLEEKER (1858). *Twaalfde bijdrage tot de kennis der vischfauna van Barneo, visschen van Sinkawang*. Act. Soc. Sci. Indo-Neerl., V.

PIETER BLEEKER.

Sauridichthys Bleeker, 2; orthotype *S. OPHIODON* Blkr. (1858). A synonym of *HARPODON* Le Sueur.

Hexanematicthys Bleeker, V, 2; orthotype *BAGRUS SUNDAICUS* Blkr.

Sciaedichthys Bleeker, 99; orthotype *SCIADES PICTUS* M. & T. Not *SCIADEICHTHYS* Blkr., 1863.

602. BLEEKER (1858). *De visschen van den Indischen Archipel, etc. I. Siluri*. Title also in Latin as *Prodromus*.

PIETER BLEEKER.

Most of these genera occur also in later papers, 1862, 1863; the type species often indicated later.

Pseudodoras Bleeker, I, 53; orthotype *DORAS NIGER* Val.

Hemidoras Bleeker, I, 53; orthotype *DORAS STENOFELTIS* Kuer. A synonym of *DORAS* Lac. as restricted by Bleeker.

Davalla Bleeker, 58; orthotype *HYPOPHthalmus DAVALLA* Schomburgk.

Pseudobagrus Bleeker, 60; orthotype *BAGRUS AURANTIACUS* T. & S.

Melanodactylus Bleeker 60; orthotype *M. ACUTIVELIS* Blkr. = *PIMELODUS NIGRODIGITATUS* Lac.

Chrysichthys Bleeker, 60; orthotype *PIMELODUS AURATUS* Geoffroy St. Hilaire.

Octonematicthys Bleeker, 60; orthotype *O. NIGRITUS* Blkr.

Rita Bleeker, 60; orthotype *PIMELODUS RITA* Ham. (*R. BUCHANANI* Blkr.).

Selenaspis Bleeker, I, 62; haplotype *SILURUS HERZBERGI* Bloch.

Cephalocassis Bleeker, 62; orthotype *ARIUS TRUNCATUS* Cuv. & Val.

Netuma Bleeker, 62; orthotype *N. THALASSINA* Blkr. = *N. NASUTA* Blkr.

Guiritinga Bleeker, 62; orthotype *G. COMMERSONI* Blkr.

Ostogeneiosus Bleeker, 63; orthotype *ARIUS MILITARIS* Blkr.

Batrachocephalus Bleeker, 63; orthotype *B. MICROPOGON* Blkr.

Ketengus Bleeker, 190; orthotype *K. TYPUS* Blkr.

Conorhynchus Bleeker, 191; orthotype *PIMELODUS CONIROSTRIS* Cuv. & Val.

Hemipimelodus Bleeker, 195; orthotype *H. BORNEENSIS* Blkr.

Zungaro Bleeker, 196; orthotype *PIMELODUS ZUNGARO* Humboldt = *ZUNGARO HUMBOLDTI* Blkr.

Heptapterus Bleeker, 197; orthotype *H. SURINAMENSIS* Blkr.

Rhamdia Bleeker, 197; orthotype *PIMELODUS QUELEN* Q. & G.

Pinirampus Bleeker, 198; orthotype *P. TYPUS* Blkr. = *PIMELODUS PINIRAMPU* Spix.

Auchenaspis Bleeker, 198; orthotype *PIMELODUS BISCUTATUS* Geoffroy. Name pre-occupied; replaced by *AUCHENOGLANIS* Gthr.

- Trachcorystes** Bleeker, 200; orthotype *T. TYPUS* Blkr.
Rama Bleeker, 201; orthotype *PIMELODUS RAMA* Ham. = *RAMA BUCHANANI* Blkr.
Acrochordonichthys Bleeker, 204; orthotype *A. PLATYCEPHALUS* Blkr.
Gagata Bleeker, 204; orthotype *G. TYPUS* Blkr.
Schilbeichthys Bleeker, 253; orthotype *SILURUS GARUA* Ham. A synonym of *CLUPI-SOMA* Sw.
Belodontichthys Bleeker, 253; orthotype *B. MACROCHIR* Blkr. = *WALLAGO DINEMA* Blkr.
Pseudosilurus Bleeker, 253; orthotype *P. BIMACULATUS* Blkr. A synonym of *OMPOK* Lac.
Siluranodon Bleeker, 253; orthotype *SILURUS AURITUS* Geoffroy.
Kryptopterus Bleeker, 253; holotype *SILURUS CRYPTOPTERUS* Blkr. Corrected to *CRYPTOPTERUS* by Gunther.
Kryptopterichthys Bleeker, 253; orthotype *SILURUS PALEMBRANGENSIS* Blkr.
Micronema Bleeker, 253; orthotype *M. TYPUS* Blkr.
Phalacronotus Bleeker, 253; orthotype *P. LEPTONEMA* Blkr.
Hemisilurus Bleeker, 255; orthotype *H. HETERORHYNCHUS* Blkr.
Schilbeodes Bleeker, 258; orthotype *SILURUS GYRINUS* Mitchell.
Aspredinichthys Bleeker, 328; orthotype *ASPEDO TIBICEN* Temminck.
Bunocephalichthys Bleeker, 329; orthotype *BUNOCEPHALUS VERRUCOSUS* Kner.
Piratinga Bleeker, 355; orthotype *BAGRUS RETICULATUS* Kner.
Platynemichthys Bleeker, 357; orthotype *BAGRUS PUNCTULATUS* Kner.
Piramutana Bleeker, 355; orthotype *BAGRUS PIRAMUTA* Kner.
603. BLEEKER (1858). *Over de geslachten der Cobitinen*. Nat. Tijdschr. Neder-Indie, XVI, 1858-1859, 302-304.
 PIETER BLEEKER.
Lepidocephalus Bleeker, 303; orthotype *C. MICROCHIR* Blkr.
Cobiitichthys Bleeker, 304; orthotype *C. ENALIOS* Bleeker. A synonym of *MISGURNUS* Lac.
604. BLEEKER (1858). *Fischsoorten gevangen bij Japara, verzameld door S. A. Thurkow*. Nat. Tijdschr. Neder.-Indie, XVI, 1858-1859, 406-409.
 PIETER BLEEKER.
Oxyurichthys Bleeker, 408; orthotype *O. MICROLEPIS* Blkr. or *GOBIOUS BELOSSO* Blkr.
605. BLYTH (1858). (*Amblyceps*). Journ. Asiat. Soc. Bengal, XXVII.
 EDWARD BLYTH
Amblyceps Blyth, XXVIII, 281; haplotype *A. CECUTIENS* Blyth.
606. BRONN (1858). *Beiträge zur triasischen Fauna und Flora der bituminösen Schiefer von Raibl in Kärnten*. Neues Jahrb. Min.
 HEINRICH GEORG BRONN (1800-1862).
Belonorhynchus Bronn, 12, orthotype *B. STRIOLATUS* Bronn (fossil). A synonym of *SAURORHYNCHUS*.
Pholidopleurus Bronn, 17; orthotype *P. TYPUS* Bronn (fossil).
Thoracopterus Bronn 21; orthotype *T. NIEDERRISTI* Bronn (fossil).
- 607, 612. COSTA (1858). (*Uraleptus*). Archiv. Naturg. (1858).
 ORONZIO GABRIELE COSTA
Uraleptus Costa, 87, orthotype *GADUS MARALDI* Risso. A synonym of *GABELLA* Lowe.

613. DUMÉRIL (1858). *Reptiles et poissons de l'Afrique occidentale*, etc. Comtes Rendus Acad. Sci. Paris, 1858, LXI.
AUGUSTE HENRI ANDRÉ DUMÉRIL.
Chromichthys A. Duméril, X, 257; orthotype C. **ELONGATUS** Guich.
614. EGERTON (1858). *On Chondrosteus, an Extinct Form of the Sturionidæ, Found in the Lias Formation at Lyme Regis*. Phil. Trans. London, 1858.
PHILIP DE MALPAS GREY EGERTON.
Chondrosteus (Agassiz) Egerton, 871; orthotype C. **ACIPENSEROIDES** Ag. (fossil).
Gyrosteus (Agassiz) Egerton, 883; orthotype G. **MIRABILIS** Ag. (fossil).
615. EGERTON (1858). *Fish: Cosmolepis*, etc. (In *Figures and Descriptions of British Organic Remains*.) Mem. Geol. Surv. United Kingdom, 1858, 9 dec.
PHILIP DE MALPAS GREY EGERTON.
Cosmolepis Egerton, Dec. IX, No. 1; orthotype C. **EGERTONI** Ag. (fossil).
Endactis Egerton, Dec. IX, No. 4; orthotype E. **AGASSIZI** Egert. (fossil). A synonym of **CATURUS**.
Centrolepis Egerton, Dec. IX, No. 5; orthotype C. **ASPER** Ag. (fossil).
Nothosoma (Agassiz) Egerton, Dec. IX, No. 6; orthotype N. **OCTOSTYCHIUS** Ag. (fossil).
Pleuropholis Egerton, Dec. IX, No. 7; logotype **PHOLIDOPHORUS LÆVISSIMUS** Ag. (fossil).
Macropoma (Agassiz) Egerton, Dec. IX, No. 10; orthotype M. **EGERTONI** Ag. (fossil). Replaces **EURYCORMUS** Wagner (1863).
616. GILL (1858). *Prodromus descriptionis subfamilia Gobinarum squamis cycloideis piscium, a cl. W. Stimpson in mare Pacifico acquisitorum*. Ann. Lyceum Nat. Hist. N. Y., 1858-1862, VII, 12-16.
THEODORE NICHOLAS GILL (1837-1914).
Chænogobius Gill, 12; orthotype C. **ANNULARIS** Gill.
Lepidogobius Gill, 14; orthotype **GOBIOUS GRACILIS** Grd. = G. **LEPIDUS** Grd.
617. GILL (1858). *Description of a New Genus of Pimelodina from Canada*. Ann. Lyceum Nat. Hist. N. Y., 1853-1858, VI, 3.
THEODORE NICHOLAS GILL.
Synechoglanis Gill, 39; orthotype **SYNECHOGLANIS BEADLEI** Gill = **ICTALURUS PUNCTATUS** (Raf.). A synonym of **ICTALURUS** Raf.
618. GILL (1858). *Prodromus descriptionis familia Gobioidarum generum novorum*. Ann. Lyceum Nat. Hist. N. Y., 1858-1862, VII, 16-19.
THEODORE NICHOLAS GILL.
Tridentiger Gill, 16, Dec.; orthotype **SICYDIUM OBSCURUM**, T. & S.
Triænophorus Gill, 17; orthotype T. **TRIGONOCEPHALUS** Gill. Name preoccupied, replaced by **TRIÆNOPHORICHTHYS** Gill.
619. GILL (1858). (*Triænophorichthys*.) Proc. Acad. Nat. Sci. Phila., 1859.
THEODORE NICHOLAS GILL.
Triænophorichthys Gill 195; orthotype **TRIÆNOPHORUS TRIGONOCEPHALUS** Gill. Substitute for **TRIÆNOPHORUS** Gill, preoccupied.

620. GILL (1858). *Synopsis of the Fresh-water Fishes of the Western Portion of the Island of Trinidad, West Indies*. Ann. Lyceum Nat. Hist. N. Y., 1853-1858. VI, 363-430.

THEODORE NICHOLAS GILL.

- Ctenogobius* Gill, 374; orthotype *C. FASCIATUS* Gill.
Pimelonotus Gill, VI, 387; orthotype *P. VILSONI*. A synonym of *RHAMDIA* Blkr. of the same year.
Batrachoglanis Gill, VI, 389; orthotype *PIMELODUS RANINUS* Cuv. & Val. A synonym of *PSEUDOPIMELODUS* Blkr. of about the same date.
Hoplosternum Gill, VI, 395; orthotype *CALLICHTHYS LÆVIGATUS* Val.
Pterygoplichthys Gill, VI, 408; orthotype *HYPOSTOMUS DUODECIMALIS* Cuv. & Val.
Pæcilurichthys Gill, 414; logotype *P. BREVOORTI* Gill.
Hemigrammus Gill, 416; haplotype *H. UNILINEATUS* Gill.
Stewardia Gill, 423; orthotype *S. ALBIPINNIS* Gill.
Corynopoma Gill, 425; orthotype *C. RHSEI* Gill. A synonym of *STEWARDIA* Gill.
Nematopoma Gill, 428; orthotype *N. SEARLESI* Gill. A synonym of *STEWARDIA* Gill.

621. HECKEL & KNER (1858). *Die Süßwasserfische der oesterreichischen Monarchie mit Rücksicht auf die angrenzenden Länder*.

JOHANN JAKOB HECKEL; RUDOLPH KNER.

- Carpio* Heckel, 64; orthotype *CYPRINUS KOLLARI* Heckel. A supposed hybrid of *CYPRINUS* and *CARASSIUS*.
Blicca Heckel, 120; orthotype *CYPRINUS BLICCA* Gmelin.
Leucaspius Heckel & Kner, 145; orthotype *L. ABRUPTUS* Heckel & Kner.
Idus Heckel, 147; orthotype *CYPRINUS IDUS*, L.

622. KADE (1858). *Ueber die devonischen Fischreste eines diluvial Blockes*. Meseritz, 1858.

G. KADE.

- Gyrolepis* Kade, 17, 18; orthotype *G. POSNANIENSIS* Kade (fossil). Name pre-occupied; perhaps a *DIPLOTERAX*.
Archæacanthus Kade, 19; orthotype *A. QUADRISULCATUS* Kade (fossil). A synonym of *ONCHUS*.
Spirodus Kade, 20; orthotype *S. REGULARIS* Kade (fossil).

623. KAUP (1858). *Uebersicht der Familie Gadida*. Arch. Naturg., 1858, XXIV, pt. 1

JOHANN JACOB KAUP.

- Xenocephalus* Kaup, 83; orthotype *X. ARMATUS* Kaup.
Physiculus Kaup, 88; orthotype *P. DALWIGKII* Kaup.
Lotella Kaup, 88; orthotype *LOTA PHYSICIS* T. & S.
Molvella Kaup, 90; orthotype *M. BOREALIS* Kaup. *GADUS MUSTELA* L. A synonym of *CILIATA* Couch.
Brotella Kaup, 92; orthotype *BROTULA IMDERBIS* T. & S. A synonym of *SIREMDO* Blkr.
Hoplophycis Kaup, 93; orthotype *XIPHIURUS CAPENSIS* Smith. A section under *GENYPTERUS* Philippi.
Brotulophis Kaup, 93; orthotype *B. ARGENTISTRIATUS* Kaup.

624. KAUP (1858). *On Nemophis, a New Genus of Riband-shaped Fishes*. Proc. Zool. Soc. London, 1858, pt. 26.

JOHANN JACOB KAUP.

- Nemophis* Kaup 168; orthotype *N. LESSONI* Kaup.

625. KAUP (1858). *Uebersicht der Solcinæ*, etc. Arch. Naturg.

JOHANN JACOB KAUP.

Monochirus Kaup, 94; orthotype *M. MACULIPINNIS* Kaup. Not of Rafinesque, 1814; a synonym of *ACHIRUS* Lac.

Grammichthys Kaup 94; orthotype *ACHIRUS LINEATUS* L. A synonym of *ACHIRUS* Lac.

Æsopia Kaup, 97; logotype *SOLEA CORNUTA* Cuv. (as restricted by Günther, 1862).

Euryglossa Kaup, 99; orthotype *PLEURONECTES ORIENTALIS* Bl. & Schn.

Euryleura Kaup, 100; logotype *E. LEUCORHYNCHA* Kaup. A needless substitute for *ACHIROIDES* Blkr.

Gymnachirus Kaup, 101; orthotype *G. NUDUS* Kaup.

Aseraggodes Kaup, 103, logotype *A. GUTTULATUS* Kaup.

Heteromycteris Kaup, 103; orthotype *H. CAPENSIS* Kaup.

Apionichthys Kaup, 104; orthotype *A. DUMERILI* Kaup.

626. KAUP (1858). *Uebersicht der Plagusinæ, der fünften Subfamilie der Pleuronectidæ*. Arch. Naturg., 1858, XXIV, pt. 1.

JOHANN JACOB KAUP.

Cantoria Kaup, 106; orthotype *PLAGUSIA CANTORI* Blkr. = *CANTORIA PINANGENSIS* Kaup.

Aphoristia Kaup, 106; orthotype *ACHIRUS ORNATUS* Lac. A synonym of *SYMPHURUS* Raf.

Arelia Kaup, 106; logotype *PLEURONECTES AREL* Bl. & Schn.

Trulla Kaup, 106; orthotype *PLAGUSIA TRULLA* Cantor.

Icania Kaup, 106; orthotype *ACHIRUS CYNOGLOSSUS* Buchanan.

627. KAUP (1858). *Einiges über die Acanthopterygiens à joue cuirassée* Cuv. Arch. Naturg., 1858, XXIV, pt. 1.

JOHN JACOB KAUP

Polemius Kaup, 333; orthotype *APISTUS ALATUS* Cuv. & Val. Kaup transfers *APISTUS* Cuv. to *A. TRACHINOIDES*, a species not mentioned by Cuvier, making *PROSOPODASYS*, Cantor's substitute name (1849), a synonym of *APISTUS*. *POLEMIOUS* must be regarded as a synonym of *PTERICHTHYS* Sw. if *APISTUS* is rejected.

Cocotropus Kaup, 333; orthotype *CORYTHORATUS ECHINATUS* Cantor.

Feristethus Kaup, 336; orthotype (*TRIGLA CATAPHRACTA* L.). A change in spelling of *PERISTEDION* a name also revised to *PERISTETHIDIUM*.

Trichopleura Kaup, 338; orthotype *STHENOPUS MOLLIS* Rich. A synonym of *STHENOPUS*.

Hoplocottus Kaup, 339; logotype *PODABRUS COTTOIDES* Rich. (first species named), a species of *PSEUDOBLENNIIUS* T. & S., 1850. *PODABRUS* is preoccupied and *HOPLOCOTTUS* was made to contain both *PODABRUS* and *TRACHIDERMIS* Heckel. A synonym of *PSEUDOBLENNIUS* T. & S.

628. KNER (1858). *Ichthyologische Beiträge*. II. Abtheilung. Sitzb. Akad. Wiss. Wien, XXVI.

RUDOLPH KNER.

Asterophysus Kner, XXVI, 402; orthotype *A. BATRACHUS* Kner.

Centromochlus Kner, XXVI, 430; orthotype *C. MEGALOPS* Kner.

629. LEIDY (1858). *Descriptions of Some Remains of Fishes from the Carboniferous and Devonian Formations of the United States*. Journ. Acad. Nat. Sci. Phila., III.

JOSEPH LEIDY,

Apedodus Leidy, 111, 164; orthotype *A. PRISCUS* Leidy (fossil). Probably a synonym of *DENDRODUS*.

630 LEIDY (1858). *Notices of Some Remains of Extinct Fishes (Hadrodus, etc.)*. Proc. Acad. Nat. Sci. Phila., 1857 (1858), 167-168.

JOSEPH LEIDY.

Hadrodus Leidy, 167; orthotype *H. PRISCUS* Leidy.

Phasganodus Leidy, 167; orthotype *P. DIRUS* Leidy (fossil). A synonym of *CIMOLICHTHYS* Leidy.

Turseodus Leidy, 167; orthotype *T. ACUTUS* Leidy (fossil).

631. VON DER MARCK (1858). (*Fossil Fishes.*) *Zeitschrift der Deutschen Geologie*, X.

W. VON DER MARCK (*d.* 1900).

Pelargorhynchus von der Marck, X, 242; logotype *P. DERCETIFORMIS* Marck (fossil).

Sardinus von der Marck, X, 245; orthotype *OSMERUS CORDIERI* Ag. (fossil). Not *SARDINIA* Poey, 1860, nor *SARDINA* Antipa, 1914, which is the same.

Sardinioides von der Marck, X, 245; orthotype *OSMEROIDES MONASTERI* Ag. (fossil). A synonym of *OSMEROIDES* Ag.

Echidnocephalus von der Marck, X, 247; orthotype *E. TROSCHELI* Marck (fossil). An extinct analogue of *HALOSAURUS*.

Ischyrocephalus von der Marck, X, 248; orthotype *I. GRACILIS* Marck (fossil). A synonym of *ENCHODUS*.

Platyormus von der Marck, X, 351; orthotype *BERYX GERMANUS* Ag. (fossil).

632 PANDER (1858). *Die Ctenodipterinen des devonischen Systems*. St. Petersburg, 1858, VIII, 65.

CHRISTIAN HEINRICH PANDER.

Cheirodus Pander, 33; orthotype *C. JEROFEJEWI* Pander (fossil). A synonym of *CONCHODUS* McCoy; the name preoccupied.

Ptyctodus Pander, 48; orthotype *P. OBLIQUUS* Pander (fossil).

633. PHILIPPI (1858). *Beschreibung neuer Wirbelthiere aus Chile*. Arch. Naturg. RUDOLPH AMANDUS PHILIPPI.

Chilopterus Philippi, 306; no specific name given. A larval lamprey; probably of *CARAGOLA* Gray.

633A QUENSTEDT (1858). *Der Jura*. Tübingen, 1856-1858, VI.

FRIDERICH AUGUST VON QUENSTEDT.

Desmacanthus Quenstedt, 34; orthotype *D. CLOACINUS* Quenstedt (fossil). A synonym of *NEMACANTHUS*.

Lycodus Quenstedt, 240; orthotype *SAURICHTHYS GIGAS* Quenstedt (fossil).

Pachylepis Quenstedt, 241; orthotype (problematical cranial bones) (fossil)

Chimæracanthus Quenstedt, 347; orthotype *A. AALENSIS* Quenstedt (fossil). A synonym of *ISCHYODUS*.

Psilacanthus Quenstedt, 347; orthotype *P. AALENSIS* Quenstedt (fossil).

Typodus Quenstedt, 781; logotype *T. ANNULATUS* Quenstedt (fossil). Apparently a synonym of *MESODON*, which, being preoccupied, it replaces.

Kokkoderma Quenstedt, 810; orthotype *K. SUEVICUM* Quenstedt (fossil). Later spelled *COCODERMA*.

634. REINHARDT (1858). *Stegophilus insidiosus, en ny mallefisk fra Brasilien og dens levestaaede*. Vidensk. Meddel. Naturh. Foren. Kjöbenhavn, 1859, 79-97.

JOHANN THEODOR REINHARDT.

Stegophilus Reinhardt, tab. 2; orthotype *S. INSIDIOSUS* Reinh.

635. ROUAULT (1858.) *Note sur les vertèbres fossiles des terrains sédimentaire de l'ouest de la France*. Comtes Rendus Acad. Sci. Paris, 1858, XLVII, 99-103.

MARIE ROUAULT.

Nummopalatus Rouault, XLVII, 101; orthotype *N. EDWARDSIUS* Rouault (fossil).

A synonym of *LABRODON* Gervais.

Machærius Rouault, XLVII, 102; orthotype *M. ARCHIACI* Rouault (fossil). Name preoccupied; a synonym of *MACHÆRACANTHUS* Newberry.

636. THIOLLIÈRE (1858). *Notice sur les poissons fossiles du Bugcy, et sur application de la méthode de Cuvier à leur classement*. Bull. Soc. Géol. France, 1858, 2 sér., XV, 782-794.

VICTOR JOSEPH DE L'ISLE THIOLLIÈRE.

Attakeopsis Thiollière, XV, 784; orthotype *A. DESORI* Thiollière (fossil). Name only; validated in 1873. A synonym of *IONOSCOPUS* Costa.

Callopterus Thiollière, XV, 784; orthotype *C. AGASSIZI* Thiollière (fossil). Name occupied as *CALOPTERUS* in beetles (1838); may be replaced by *AINIA* Jordan, from the locality Ain in France.

637. WEINLAND (1858). *A New Division of the Five Species of Flying-fish Found Along the Coast of North America, Which Have Hitherto All Been Referred to the Genus Exocetus*. Proc. Boston Soc. Nat. Hist., VI, 385.

DAVID FRIEDRICH WEINLAND.

Halocypselus Weinland, VI, 385; orthotype "*EXOCÆTUS MESOGASTER*" = *EXOCÆTUS VOLITANS* L. = *E. EVOLANS* L., the two being identical, as Dr. Lönnberg has shown by the examination of Linnæus' type of *E. VOLITANS*.

OMISSIONS IN PART II.

As these pages go through the press the following errors and omissions are noted:

On page 173, Bennett's *Fishes of Mauritius*, No. 143A, is in two parts, both in 1831, not 1830. The first is the collection of Captain Belcher (November), the second that of Charles Telfair (December).

Insert—

Apolectus Bennett, I, 146 (November); orthotype *A. IMMUNIS* Bennett. Name preoccupied, replaced by *Apodontis* Bennett.

Apodontis Bennett, I, 169 (December); orthotype *APOLECTUS IMMUNIS* Bennett, substitute for *APOLECTUS* Bennett, preoccupied by *APOLECTUS* Cuv. & Val. (October) 1830.

Under *Agonostomus* read *A. TELFAIRI*.

On page 174, to 142A Cuvier & Valenciennes add—

Apolectus Cuvier & Valenciennes, VIII, 438; orthotype *A. STROMATEUS* Cuv. & Val. = *STROMATEUS NIGER* Bloch.

On page 219 the name *Coccolus* was given as substitute for *KROJINIUS*, a larval *MACROID*, as stated on page 226.

INDEX TO PART II.

In the following list, the names of genera likely to prove valid are left unmarked; *d* indicates doubt of one form or another; *s* indicates synonyms, apparently never to be revived or added to the system.

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WITH THE ACCEPTED TYPE OF EACH.

A CONTRIBUTION TO THE STABILITY OF SCIENTIFIC NOMENCLATURE

BY

DAVID STARR JORDAN

Chancellor-Emeritus of Stanford University
Member of the International Commission of Zoological Nomenclature

STANFORD UNIVERSITY, CALIFORNIA
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INTRODUCTORY NOTE

The present memoir is the third part of a catalogue of the generic names applied to fishes subsequent to January 1, 1858. With the other parts it is a contribution to the stability of scientific nomenclature, the genera being listed in order of date accompanied by the indication of the type species of each.

The first part (1758 to 1833) was intended to serve as an aid to the International Commission of Zoological Nomenclature by bringing together the generic names of fishes as proposed in the formative period of classification, together with the data by which authors who failed to conform to the Linnæan system could be considered, each on his merits. I had at first no intention of continuing the series beyond 1833, but the data gathered for the first part seemed to make the compilation of the catalogue worth while.

Part II covers what I have termed the mediæval period of taxonomy—from 1833 to 1858, this completing the first century of names in ichthyology.

Part III represents the early modern period, dating from Darwin's "Origin of Species" in 1858. In this epoch most authors began to see that the fundamental basis of classification must be genetic and that the problems involved in a natural grouping are vastly more complex than appeared to the earlier authors. To paraphrase a saying of Dr. Elliott Coues, genera and species are but larger and smaller twigs of a tree which we try to arrange as nearly as possible in accordance with nature's ramifications.

This view applied to taxonomy involved an extensive subdivision of accepted genera, the genus becoming a genetic conception rather than a convenient pigeon-hole into which to throw species.

The effort to reform classification in Ichthyology was undertaken almost simultaneously by three eminent systematists, Dr. Pieter Bleeker of Java, Dr. Albert Günther of the British Museum, and Dr. Theodore Gill of the Smithsonian Institution. Of these writers Dr. Bleeker had by far the greatest experience in field work, but his use of the writings of other authors was not discriminating, and the names he chose for genera, though technically correct, were largely clumsy and tasteless. Dr. Günther had at his disposal a greater range of material than any other contemporary writer. His groupings were, however, of unequal value,

and he was more distinctly "conservative" than either Bleeker or Gill. It has long been a sort of tradition in the British Museum that whatever is not found there probably does not exist. Dr. Gill saw more clearly than either of the other two the nature of the classification of the future. His generic names have as a rule a sound basis, the exceptions being mainly among those based on erroneous records of other writers.

In addition to the large expansion of generic names among species already known, the years between 1858 and 1880 mark great accessions of knowledge of the life of the oceanic depths, a series of discoveries due mostly to the voyages of the Challenger and the Albatross, and made known in England by Dr. Günther, and in America by Goode and Bean. To this period belong also the extensive studies of the fresh-water fishes of the United States and the marine fishes of the Eastern Pacific as conducted by Jordan and Gilbert. Most of the excellent papers of Franz Steindachner in Vienna, Léon Vaillant in Paris, Christian F. Lütken in Copenhagen, and Joseph Leidy and Edward D. Cope in Philadelphia, occur in this period.

I express again my obligations to Barton A. Bean of the United States National Museum, to Masamitsu Oshima, now Scientific Expert of the Fisheries Bureau at Taihoku, Formosa, and to Henry Weed Fowler of the Academy of Natural Sciences of Philadelphia for assistance in verifying records and in examining rare publications. Dr. Louis Hussakof of New York, Theodore D. A. Cockerell of Boulder, Colorado, Allan R. McCulloch, Edgar R. Waite, and J. Douglas Ogilby have also furnished valuable notes. I am again indebted to Mr. R. A. Nelgner of the Stanford University Press for his efforts in securing accuracy and in the preparation of the index. My obligations to Weber and de Beaufort's *Index of the Ichthyological Papers of P. Bleeker*, to Bashford Dean's *Bibliography of Fishes*, to Oliver Perry Hay's *Fossil Vertebrata of North America*, and to Arthur Smith Woodward's *Catalogue of the Fossil Fishes in the British Museum* have been great and constant.

DAVID STARR JORDAN.

STANFORD UNIVERSITY, CALIFORNIA,
August 10, 1919; Issued October 25, 1919.

THE GENERA OF FISHES

PART III

1859

638. ANDERSON (1859). (*On the Fossil Fishes and Yellow Sandstone.*) Dura Den.

JOHN ANDERSON.

Glyptolæmus (Huxley) Anderson, 63; orthotype *G. KINAIRDI* Huxley (fossil).

A synonym of *GLYPTOPOMUS* Ag.

Phaneropleuron (Huxley) Anderson, 67; orthotype *P. ANDERSONI* Huxley (fossil).

639. BLEEKER (1859). *Over eenige vischsoorten van de zuidkust-wateren van Java.* Nat. Tijdschr. Neder.-Indie, XIX, 1859, 329-352.

PIETER BLEEKER

Scarichthys Bleeker, 334; orthotype *SCARUS NÆVIUS* Blkr.

640. BLEEKER (1859). *Fischsoorten van Siam.* . . . door Fr. Castelnau.

Nat. Tijdschr. Neder.-Indie, XX.

PIETER BLEEKER.

Balantiocheilos Bleeker, 102; orthotype *B. MELANOPTERUS* Blkr.

Morara Bleeker, 102; orthotype *CYPRINUS MORAR* Ham. = *MORARA SIAMENSIS* Blkr.

A synonym of *ASPIDOPARIA* Heckel.

Acanthobrama, Bleeker, 102; orthotype *A. SIMONI* Blkr.

Pseudoxiphophorus Bleeker, 102; orthotype *XIPHIOPHORUS BIMACULATUS* Steind.

641. BLEEKER (1859). *Conspectus systematis Cyprinorum.* Nat. Tijdschr. Neder.-Indie, XX, 421-441. (In this brief synopsis no types are indicated. These are supplied in the *Atlas*, 1863.)

PIETER BLEEKER.

Lissorhynchus Bleeker, 422; tautotype *GOBIO LISSORHYNCHIUS* Ham. Recorded later by Bleeker as a synonym of *GARRA* Ham.

Diplocheilichthys Bleeker, 423; orthotype *LOBSCHIELOS PLEUROTENIA* Blkr.

Discognathichthys Bleeker, 423; orthotype probably *DISCOGNATHUS RUFUS* Heckel (= *CYPRINUS LAMTA* Ham) (not verified). Said by Bleeker to be a synonym of *GARRA* Ham. = *DISCOGNATHUS* Heckel.

Barbichthys Bleeker, 424; orthotype *B. LEVIS* Blkr

Rohitichthys Bleeker, 424; orthotype *LABEO SENEGALENSIS* Cuv. & Val.

Chrysophekadion Bleeker, 424; orthotype *ROHITA CHRYSOPHEKADION* Blkr. = *C. POLYPOROS* Blkr. A synonym of *MORULIUS* or of *LABEO*.

Semiplotus Bleeker, 424; orthotype *CYPRINUS SEMIPLLOTUS* McCl.

Opistocheilus Bleeker, 425; orthotype *O. PROPUS* Blkr = *SCHIZOTHORAX PLAGIOSTOMUS* Heckel. A synonym of *SCHIZOTHORAX* Heckel.

Pseudogobio Bleeker, 425; orthotype *GOBIO ESOCINUS* T. & S.

Mrigala Bleeker, 427; orthotype *CYPRINUS MRIGALA* Ham. = *M. NINENSIS* Blkr.

A synonym of *CIRRIHINA* Cuv

- Acheilognathus* Bleeker, 427; orthotype *A. MELANOCASTER* Blkr.
Smiliogaster Bleeker, 428; orthotype *LEUCISCUS BELANGERI* Cuv. & Val. A synonym of *ROHTEE* Sykes.
Amblyrhynchichthys Bleeker, 430; orthotype *BARBUS TRUNCATUS* Blkr.
Albulichthys Bleeker, 430; orthotype *SYSTOMUS ALBULOIDES* Blkr.
Tambra Bleeker, 430; orthotype *CYPRINUS ABRAMIoidES* Sykes.
Gonoproktopterus Bleeker, 430; orthotype *BARBUS KOLUS* Sykes. Same as *HYPSELOBARBUS* Blkr.
Hypselobarbus Bleeker, 430; orthotype *H. TYPUS* Blkr.
Hemibarbus Bleeker, 431; orthotype *GOBIO BARBUS* T. & S.
Rohteichthys Bleeker, 431; orthotype *R. MICROLEPIS* Blkr.
Pseudophoxinus Bleeker, 431; orthotype *PHOXINELLUS ZEREGI* Heckel.
Barbodes Bleeker, 431; orthotype *SYSTOMUS BELINKA* McCl.
Anematischthys Bleeker, 431; orthotype *BARBUSA APOGON* Kuhl.
Siaja Bleeker, 431; tautotype *CAPOËTA SIAJA* Blkr.
Cyclocheilichthys Bleeker, 431; orthotype *C. ARMATUS* Blkr.
Pseudoculter Bleeker, 432; orthotype *CULTER PEKINENSIS* Basil.
Hemiculter Bleeker, 432; orthotype *CULTER LEUCINOCULUS* Basil.
Chanodichthys Bleeker, 432; orthotype *LEPTOCEPHALUS MONGOLICUS* Basilewsky.
Leptobarbus Bleeker, 432; orthotype *BARBUS HOEVENI* Blkr.
Trinematischthys Bleeker, 433; orthotype *LEUCISCUS TRINEMA* Blkr. A synonym of *LUCIOSOMA* Blkr.
Amblypharyngodon Bleeker, 433; orthotype; *CYPRINUS MOLA* Ham.
Hypophthalmichthys Bleeker 433; orthotype *LEUCISCUS MOLITRIX* Cuv. & Val. Replaces *ABRAMOCEPHALUS* Steind.
Devario Bleeker 433; tautotype *PERILAMPUS DEVARIO* Ham. A synonym of *DANIO* Ham.
Thynnichthys Bleeker, 433; orthotype *LEUCISCUS THYNNOIDES* Blkr.
Sarcocheilichthys Bleeker, 435; orthotype *LEUCISCUS VARIEGATUS* T. & S.
Pseudorasbora Bleeker, 435; orthotype *LEUCISCUS PARVUS* T. & S.
Rasbora Bleeker, 435; tautotype *CYPRINUS RASBORA* Ham.
Gnathopogon Bleeker, 435; orthotype *CAPOËTA ELONGATA* T. & S. Replaces *SQUALIDUS* Dybowski and *LEUCOGOBIO* Gthr.
Rasborichthys Bleeker, 435; orthotype *LEUCISCUS HELFRICHI* Blkr.
Elopichthys Bleeker, 436; orthotype *LEUCISCUS BAMBUSA* Rich.
Shacra Bleeker, 437; tautotype *CYPRINUS SHACRA* Ham.
Bendilisis Bleeker, 437; orthotype *CYPRINUS BENDELISIS* Ham. A synonym of *BARILIUS* Ham.
Iaus (Heckel) Bleeker 438; a misprint for *IBUS*.
Laubuca Bleeker, 438, tautotype *CYPRINUS LAUBUCA* Blkr.
Fundulichthys Bleeker, 439; orthotype *FUNDULUS VIRESCENS* T. & S.
Macrochirichthys Bleeker, 439; orthotype *M. URANOSCOPUS* Blkr.
Hemixiphophorus Bleeker, 440; (type not named). A synonym of *GAMBUSIA* Pocy.

642. BLEEKER (1859). (*Palinurichthys*.) Enumeratio piscium archipelago Ind.
 PIETER BLEEKER.

Palinurichthys Bleeker, 22 (Nov., 1859); orthotype *CORYPHÆNA PERCIFORMIS* Mitchill. A substitute for *PALINURUS* Dekay, preoccupied.

643. BLEEKER (1859). (*Pterichthyodes*.) Verh. Nat. Hist. Indie, VI.

PIETER BLEEKER.

Pterichthyodes Bleeker, xi; orthotype *PTERICHTHYS MILLERI* Ag. (fossil). Substitute for *PTERICHTHYS* Ag., preoccupied.

644. BLYTH (1859). (*Andamia*.) Journ. Asiat. Soc. Bengal, 1858.

EDWARD BLYTH.

Andamia Blyth, 270; orthotype *A. EXPANSA* Blyth.

645. FILIPPI & VERANY (1859). *Sopra alcuni pesci nuovi o poco noti del Mediterraneo*. Mem. Accad. Sci. Torino, 1859, 2. ser., XVIII.

FILIPPO DE FILIPPI; J. B. VERANY.

Navarchus Filippi & Verany, XVIII, 7; orthotype *N. SULCATUS*. Filippi & Verany. A synonym of *PSENES* Cuv. & Val.

Pteridium Filippi & Verany, XVIII, 11; orthotype *OLIGOPUS ATER* Risso. (Not *PTERIDIUM* of Scopoli). Replaced by *VERATER* Jordan, 1919.

646. GILL (1859). *Description of a New Generic Form of Gobiinae from the Amazon River*. Ann. Lyc. Nat. Hist. N. Y., 1858-1862, VII, 45-48.

THEODORE NICHOLAS GILL.

Euctenogobius Gill, 45; orthotype *E. BADIUS* Gill.

647. GILL (1859). *Description of a New Genus of Salariae from the West Indies*. Proc. Acad. Nat. Sci. Phila., 1859 (1860).

THEODORE NICHOLAS GILL.

This and the papers which follow were printed in 1859 when probably extras were issued. The publication as a whole was in 1860.

Entomacrodus Gill, 168; orthotype *E. NIGRICANS* Gill.

648. GILL (1859). *Description of New South American Type of Siluroids, Allied to Collophysus*. Proc. Acad. Nat. Sci. Phila., 1859 (1860).

THEODORE NICHOLAS GILL.

Pimelotopis Gill, 196; orthotype *P. LATERALIS* Gill = *CALLOPHYSUS MACROPTERUS*. A synonym of *CALLOPHYSUS* M. & T.

649. GILL (1859). *Description of a Third Genus of Hemirhamphinae*. Proc. Acad. Nat. Sci. Phila. (1859) 1860

THEODORE NICHOLAS GILL.

Euleptorhamphus Gill, 156; orthotype *E. BREVOORTI* Gill.

650. GILL (1859). *Description of a Type of Gobioids Intermediate Between Gobinae and Tridentigerinae*. Proc. Acad. Nat. Sci. Phila., 1859 (1860).

THEODORE NICHOLAS GILL.

Evorthodus Gill, 195; orthotype *E. BREVICEPS* Gill

651. GILL (1859). *Description of Hyporhamphus, a New Genus of Fishes Allied to Hemirhamphus Cuv.* Proc. Acad. Nat. Sci. Phila., 1859 (1860).

THEODORE NICHOLAS GILL.

Hyporhamphus Gill, 131; orthotype *H. TRICUSPIDATUS* Gill

652. GILL (1859). *Description of New Generic Types of Cottoids, from the Collection of the North Pacific Exploring Expedition Under Com. John Rodgers*. Proc. Nat. Sci. Phila., 1859 (1860).

THEODORE NICHOLAS GILL.

Boreocottus Gill, 165; orthotype *B. AXILLARIS* Gill. A synonym of *MYOXOCEPHALUS* Steller.

Ceratocottus Gill, 165; orthotype *COTTUS DICERAUS* Pallas.

Porocottus Gill, 166; logotype *P. QUADRIFILIS* Gill.

653. GILL (1859). *On Dactyloscopus and Leptoscopus, Two New Genera of the Family of Uranoscopidae*. Proc. Acad. Nat. Sci. Phila., 1859 (1860).

THEODORE NICHOLAS GILL.

Dactyloscopus Gill, 132; orthotype *D. TRIDIGITATUS* Gill.

Leptoscopus Gill, 133; orthotype *URANOSCOPUS MACROPYGOS* Rich.

654. GILL (1859). *On the Genus Callionymus of Authors*. Proc. Acad. Nat. Sci. Phila., 1859 (1860).

THEODORE NICHOLAS GILL.

Synchiropus Gill, 129; orthotype *CALLIONYMUS LATERALIS* Rich.

Dactylopus Gill, 130; orthotype *CALLIONYMUS DACTYLOPUS* Bennett = *DACTYLOPUS BENNETTI* Gill, not *DACTYLOPUS*, 1862, a genus of crustacea. Replaces *VULSUS* Gthr.

655. GILL (1859). *Notes on a Collection of Japanese Fishes, Made by Dr. J. Morrow*. Proc. Acad. Nat. Sci. Phila., 1859 (1860).

THEODORE NICHOLAS GILL.

Acanthogobius Gill, 145; orthotype *GOBIOUS FLAVIMANUS* T. & S.

Rhinogobius Gill, 145; orthotype *R. SIMILIS* Gill.

Glossogobius Gill, 146; orthotype *GOBIOUS PLATYCEPHALUS* Rich.

Luciogobius Gill, 146; orthotype *L. GUTTATUS* Gill.

656. GIRARD (1859). *Ichthyological Notices*. Proc. Acad. Nat. Sci. Phila., 1858 (1859).

CHARLES FRÉDÉRIC GIRARD.

Pterognathus Girard, 57; orthotype *NEOCLINUS SATIRICUS* Grd., hypothetical name, revived by Jordan & Evermann (1896).

Myrichthys Girard, 58; orthotype *M. TIGRINUS* Grd.

Typhlichthys Girard, 63; haplotype *T. SUBTERRANEUS* Grd.

Arlina Girard, 64; haplotype *A. EFFULGENS* Grd. Same as *BOLEOSOMA* Dekay, 1842.

Estrella Girard, 64; orthotype *E. ATROMACULATA* Grd. A synonym of *BOLEOSOMA* Dekay.

Oligocephalus Girard, 67; haplotype *A. LEPIDUS* Grd.

Alvordius Girard, 68; haplotype *ALVORDIUS MACULATUS* Grd. A section of *HADROPTERUS* Ag.

Alvarius Girard, 101; haplotype *A. LATERALIS* Grd.

Boleichthys Girard, 103; logotype *B. EXILIS* Grd.

Adinia Girard, 117; haplotype *A. MULTIFASCIATA* Grd.

Lucania Girard, 118; haplotype *LUCANIA VENUSTA* Grd.

657. GIRARD (1859). *Fishes*. (In *General Report Upon Zoology of the Several Pacific Railroad Routes*. 1857.)

CHARLES GIRARD.

Nautichthys Girard, 74; orthotype *BLEPSIAS OCULOFASCIATUS* Grd.

Xiphidion Girard, 119; orthotype *X. MUCOSUM* Grd. Name preoccupied as *XIPHIDIUM*, replaced by *XIPHISTER* J. & G., 1880.

Thaleichthys Girard, 325; orthotype *P. STEVENSI* Grd. = *SALMO PACIFICUS* Rich.

Ichthyomyzon Girard, 379; logotype *PETROMYZON ARGENTUS* Kirtland = *AMMOCÆTES CONCOLOR* Kirtland.

Scolecossoma Girard, 384; haplotype *AMMOCÆTES CONCOLOR* Kirtland. Larva of *ICHTHYOMYZON* Grd.

658. GIRARD (1859). *Notes Upon Various New Genera and New Species of Fishes, in the Museum of the Smithsonian Institution, and Collected in Connection with the United States and Mexican Boundary Survey, Major William Emory, Commissioner.* Proc. Acad. Nat. Sci. Phila., 1858 (1859), 167-171.

CHARLES GIRARD.

Neomænis Girard, 167; orthotype *LOBOTES EMARGINATUS* Baird & Grd. = *LABRUS GRISEUS* L.

Orthopristis Girard, 167; orthotype *O. DUPLEX* Grd. = *PERCA CHRYSOPTERA* L.

Carangus Girard, 168; tautotype *CARAX CARANGUS* Cuv. & Val. = *SCOMBER HIPPOS* L. Same as *CARANGUS* Griffith. A synonym of *CARANX* Lac., as restricted.

Doliodon Girard, 168; orthotype *GASTEROSTEUS CAROLINUS* L. A synonym of *TRACHINOTUS* Lac.

Chloroscombrus Girard, 168; logotype *SERIOLA COSMOPOLITA* Cuv. & Val. = *SCOMBER CHRYSURUS* L.

Gobionellus Girard, 168; logotype *G. HASTATUS* Grd.

Neoconger Girard, 171; orthotype *N. MUCRONATUS* Grd.

Neomuræna Girard, 171; orthotype *N. NIGROMARGINATA* Grd. A synonym of *MURÆNA* L.

- 658A. GRAY (1859). *Description of a New Genus of Lophobranchiate Fishes from Western Australia.* Proc. Zool. Soc. London.

JOHN EDWARD GRAY.

Haliichthys Gray, 38; orthotype *H. TÆNIOPHORUS* Gray.

659. GÜNTHER (1859). *Catalogue of the Acanthopterygian Fishes of the British Museum.*

ALBERT GÜNTHER (1830-1914).

Anoplogaster Günther, 1, 12; orthotype *HOMLOSTETHUS CORNUTUS* Cuv. & Val.

Percalabrax (Schlegel) Günther, 1, 71; orthotype *LABRAX JAPONICUS* J. & S.

Trachypoma Günther, 1, 167; orthotype *T. MACRACANTHUS* Gthr.

Pogonoperca Günther, 1, 169; orthotype *P. OCELLATA* Gthr.

Anyperodon Günther, 1, 210; orthotype *SEKRANUS LEUCOGRAMMICUS* Cuv. & Val.

Oligorus Günther, 1, 251; orthotype *GRYSTES MACQUARIENSIS* Cuv. & Val.

Odontonectes Günther, 1, 265; orthotype *CÆSIO ERYTHROGASTER* Kuhl & Van Hasselt.

Hyperglyphe Günther, 1, 337; orthotype *DIAGRAMMA POROSA* Rich.

Synagris (Klein) Günther, 1, 373; logotype *DENTEX FURCOSUS* Cuv. & Val. A section under *NEMIPTERUS* Sw., not *SYNAGRIS* Klein as restricted.

Pachymetopon Günther, 1, 424; orthotype *P. GRANDIS* Gthr.

Proteracanthus Günther, 1, 426; orthotype *CRENIDENS SARISSOPHORUS* Cantor.

Tephraëops Günther, 1, 431; tautotype *CRENIDENS TEPHRAËOPS* Rich.

Gymnocrotaphus Günther, 1, 432; orthotype *G. CURVIDENS* Gthr.

Lembus Günther, 1, 505; orthotype *L. MACULATUS* Gthr. A synonym of *GOBIMORUS* Lac.; *PHILYPNUS* Cuv.

660. GÜNTHER (1859). *On the Reptiles and Fishes Collected by the Rev. H. B. Tristram in Northern Africa*. Proc. Zool. Soc. London, 1859, 469-474.
ALBERT GÜNTHER.
Haligenes Günther, 471; orthotype *H. TRISTRAMI* Gthr. A synonym of *TILAPIA* Smith.
661. HYRTL (1859). *Anatomische Untersuchung des Clarotes (Gonocephalus) heuglini Kner, mit einer Abbildung und einer osteologischen Tabelle der Siluroiden*. Denkschr. Akad. Wiss. Wien, 1859, XVI.
CARL JOSEPH HYRTL.
Notophthalmus Hyrtl, XVI, 17; orthotype *HYPOPHTHALMUS MARGINATUS* Cuv. & Val. Name preoccupied in Salamanders. A synonym of *HYPOPHTHALMUS* Spix.
662. KAUP (1859). *Description of a New Species of Fish, Peristethus rieffeli*. Proc. Zool. Soc. London, 1859, pt. 27.
JOHANN JACOB KAUP.
Peristethus Kaup, 103; orthotype *P. CATAPHRACTUS*. An attempt at amendment of *PERISTEDION* Lac.
663. KNER (1859). *Zur Familie der Characinen. III. Folge der Ichthyologischen Beiträge*. Denkschr. Akad. Wiss. Wien, 1859, XVII.
RUDOLPH KNER (1819-1869).
Microdus Kner, XVIII, 151; orthotype *CHILODUS PUNCTATUS* M. & T. Preoccupied, replaced by *CÆNOTROPUS* Gthr., 1864.
Rhytioidus Kner, XVII, 165; logotype *R. MICROLEPIS* Kner.
Centrophorus Kner, XVII, 167; orthotype *PARIODON MICRIPS* Kner. Name preoccupied in sharks. Intended as a substitute for *PARIODON*, on account of an earlier genus, *PARODON*, of different etymology.
Bryconops Kner XVII, 179; logotype *B. ALBURNOIDES* Kner.
664. LEIDY (1859). *Some Remains of Cartilaginous Fishes Discovered by Dr. F. V. Hayden and F. B. Meek in the Carboniferous Formations of Kansas*. Proc. Acad. Nat. Sci. Phila., 1859 (1860), 3.
JOSEPH LEIDY.
Xystracanthus Leidy, 3; orthotype *X. ARCUATUS* Leidy (fossil).
665. PICTET (1859). *Description des fossiles du terrain Neocomien des Voirons*. Genève, 1859, 1-54.
FRANÇOIS JULES PICTET; PERCIVAL DE LORIOI.
Spathodactylus Pictet & Loriol, III, 2; orthotype *S. NEOCOMIENSIS* Pictet (fossil).
Crossognathus Pictet & Loriol, III, 27; orthotype *C. SABAUDIANUS* Pictet (fossil).
666. RATH (1859). *Beitrag zur Kenntniss der fossilen Fische des Plattenberges im Canton Glarus*. Zeitschr. Deutsch. Geol. Ges., 1859, II, 108-132.
J. J. GERHARD VOM RATH (1830-1888).
Archæoides Rath, 112; orthotype *A. LONGICOSTATUS* Rath (fossil). A synonym of *ARCHÆUS*.
Thyrsitocephalus Rath, XI, 114; orthotype *T. ALPINUS* Rath (fossil).
Palæogadus Rath, XI, 126, orthotype *P. TROSCHELI* Rath (fossil). A synonym of *NEMOPTERYX*.
Palæobrosmius Rath, XI, 130; orthotype *P. ELONGATUS* Rath (fossil). A synonym of *NEMOPTERYX* Ag.

667. STEINDACHNER (1859). *Beiträge zur Kenntniss der fossilen Fischfauna Oesterreichs.* Sitzb. Akad. Wiss. Wien, math.-nat. Cl., 1859, XXXVII, 673-701.

FRANZ STEINDACHNER (1834-).

This is the first of a very long series of papers mostly dealing with individual species and with unusual accuracy. All these papers are illustrated by excellent figures.

- Scorpænopterus* Steindachner, XXXVII, 694; orthotype *S. SILURIDENS* Steind. (fossil).

- Aipichthys* Steindachner, XXVIII, 763; orthotype *A. PRETIOSUS* Steind. (fossil).

1860

668. AYRES (1860). *On New Fishes of the California Coast.* Proc. Cal. Acad. Sci., II, 1861.

WILLIAM O. AYRES.

- Halias* Ayres, II, 52; orthotype *BROSMIUS MARGINATUS* Ayres. Name preoccupied in butterflies; replaced by *BROSMOPHYCIS* Gill.

- Scriphus* Ayres, II, 80; orthotype *S. POLITUS* Ayres.

- Camarina* Ayres, 81; orthotype *C. NIGRICANS* Ayres. A synonym of *GIRELLA* Gray.

669. BLEEKER (1860). *Over cenige vischsoorten van de Kaap de Goede Hoop.* Nat. Tijdschr. Neder.-Indie, XXI, 1860, 49-80.

PIETER BLEEKER.

- Pagrichthys* Bleeker, XXI, 60; orthotype *P. CASTELNAUI* Blkr.

670. BLEEKER (1860). *Zesde bijdrage tot de kennis der vischfauna van Japan.* Act. Soc. Sci. Indo-Neerl., VIII.

PIETER BLEEKER.

- Pseudobagrus* Bleeker, 87; orthotype *BAGRUS AURANTIACUS* Schlegel.

- Salangichthys* Bleeker, 101; orthotype *SALANX MICRODON* Blkr.

671. BLEEKER (1860). *Achtste bijdrage tot de kennis der vischfauna van Sumatra. Visschen van Benkoelen, Priaman, Tandjong, Palembang en Djambi.* Act. Soc. Sci. Indo-Neerl., VIII, 1860, 1-88.

PIETER BLEEKER.

- Cossyphodes* Bleeker, 37; orthotype *LABRUS MACRODON* Lac. A synonym of *CHCERODON* Blkr.

- Lais* Bleeker, 46; orthotype *L. HEXANEMA* Blkr. Name preoccupied by *LAIS* Gistel, 1848, VIII, a substitute for *CYNTHIA*, preoccupied as a genus of *TUNICATES*; replaceable by *LAIDES* Jordan, new name.

- Silurodes* Bleeker, 47; orthotype *S. HYPOPTHALMUS* Blkr.

- Bagrighthys* Bleeker, 54; orthotype *BAGRUS HYPELOPTERUS* Blkr.

672. BLEEKER (1860). *Negende bijdrage tot de kennis der vischfauna van Sumatra. Visschen uit de Lematang-Linim en van Benkoelen.* Act. Soc. Sci. Indo-Neerl., VIII, 1860, 1-12.

PIETER BLEEKER.

- Akysis* Bleeker, 234; orthotype *PIMELODUS VARIEGATUS* Blkr.

673. BLEEKER (1860). *Dertiende bijdrage tot de kennis der vischfauna van Borneo.* Act. Soc. Sci. Indo-Neerl., VIII, 1860, 1-64.

PIETER BLEEKER.

- Trypauchenichthys* Bleeker, XIII, 63; orthotype *T. TYPUS* Blkr.

674. BLEEKER (1860). *Elfde bijdrage tot de kennis der vischfauna van Amboina*. Act. Soc. Sci. Indo-Neerl., VIII, 1860, 1-14.

PIETER BLEEKER.

Scopelosaurus Bleeker, XI, 12; orthotype H. HOEDTI Blkr.

675. BLEEKER (1860). *Dertiende bijdrage tot de kennis der vischfauna van Celebes. Visschen van Bonthain, Badjoa, Sindjai, Lagoesi en Pompenoea*. Act. Soc. Sci. Indo-Neerl., VIII, 1860, 1-60.

PIETER BLEEKER.

Soleichthys Bleeker, 14; orthotype S. HETERORHINOS Blkr.

Macolor Bleeker, 25; orthotype DIACOPE MACOLOR Cuv. & Val. = MACOLOR TYPUS Blkr; replaces PROAMBLYS Gill.

Oxyurichthys Bleeker, 44; orthotype GOBIOUS BELOSSO Blkr.

676. BLEEKER (1860). *Ordo Cyprini: Karpers*. Nat. Tijdschr. Neder.-Indie, VII, 1-492.

PIETER BLEEKER.

Girardinichthys Bleeker, 481; orthotype G. INNOMINATUS Blkr. Replaces LIMNURUS Gthr.

677. BLYTH (1860). *On Some Fishes from the Sitang and Tributary Streams*. Journ. Asiat. Soc. Bengal, XXIX, 138-174.

EDWARD BLYTH.

Bogota Blyth, 139; orthotype B. INFUSCATA Blyth. Apparently the young of PRIACANTHUS Cuv., not BOGODA Blkr.

Sciænoides Blyth, 139; logotype S. BIAURITUS Blyth (Jan., 1860). Same as COLlichthys Gthr., June, 1860, but preoccupied by the tentative name SCIÆNOIDES Rich., 1843.

Microzeus Blyth, XIX, 142; orthotype M. ARMATUS Blyth.

Batasio Blyth, XXIX, 148; tautotype PIMELODUS BATASIO Ham.; replaces GAGATA Blkr.

Hara Blyth, 152; tautotype PIMELODUS HARA Ham. (H. BUCHANANI Blyth). A synonym of ERETHISTES M. & T.

Pseudecheneis Blyth, XXIX, 154; orthotype GLYPTOSTERNON SULCATUS McCl.

Glyptothorax Blyth, XXIX, 154; orthotype G. TRILINEATUS Blyth. A synonym of GLYPTOSTERNON McCl.

Exostoma Blyth, XXIX, 155; orthotype E. BERMOREI Blyth.

Syncrossus Blyth, 166; logotype S. BERMOREI Blyth. A synonym of BOTIA Gray.

Prostheacanthus Blyth, 167; orthotype P. SPECTABILIS Blyth. A synonym of ACANTHOPSIS Van Hasselt.

Pangio Blyth, 169; orthotype COMITIS PANGIA Ham. A synonym of ACANTHOPHTHALMUS Van Hasselt, as restricted by Bleeker.

Apua Blyth, 169; orthotype A. FUSCA Blyth.

678. CANESTRINI (1860). *Zur Systematik der Percoiden*. Verh. Zool. Bot. Ver. Wien, X.

GIOVANNI CANESTRINI (1835-).

Datnioides (Brisson de Barneville) Canestrini, 305; orthotype not named; teeth on vomer, none on premaxillaries; not DATINIODES Blkr., 1853. Apparently a synonym of THERAPON Cuv.

Apostata (Heckel) Canestrini, 309; orthotype A. CALCARIFER Heckel = CONODON NOBILIS (L.). A synonym of CONODON Cuv. & Val., 1830.

Asproperca (Heckel) Canestrini, 309; orthotype *A. ZEBRA* Heckel. A synonym of *PERCINA* Haldeman.

679, 680. CANESTRINI (1860). (*Fishes.*) Verh. Akad. Wiss. Wien.
GIOVANNI CANESTRINI.

Sphærichthys Canestrini, X, 707; orthotype *S. OSPHROMENOIDES* Canestrini.

Trichopsis (Kner) Canestrini, X, 708; orthotype *T. STRIATUS* Blkr. A synonym of *CTENOPS* McCl.

681. COQUAND (1860). *Description de la géologie du département de Charente*. II.
H. COQUAND.

Orthodon Coquand, II, 126; orthotype *O. CONDAMYI* (fossil). Name preoccupied in *CYPRINIDÆ*; an ally of *THYELLINA*.

682. EGERTON (1860). (*Fossil Fishes.*) Rept. British Association for 1859 (1860).
PHILIP DE MALPAS GREY EGERTON.

Brachyacanthus Egerton, 116; orthotype *B. SCUTIGER* Egert. (fossil). A synonym of *CLIMATIUS* Ag.

683. EICHWALD (1860). *Lethæa Rossica ou paléontologie de la Russie décrite et figurée*. Stuttgart. *Pisces*. Vol. I.
KARL EDUARD VON EICHWALD.

Aulacosteus Eichwald, I, 1548; logotype *A. COCHLEARIFORMIS* Eichw. (fossil); repeated from a Russian paper of 1846. A synonym of *PTYCTODUS* Pander (1858) and originally of prior date.

Homacanthus Eichwald, I, 1601; orthotype *H. TRIANGULARIS* Eichw. (fossil). Regarded as a synonym of *CALODODUS* Ag.; name preoccupied by Agassiz.

684. GILL (1860). *Notes on the Nomenclature of North American Fishes*. Proc. Acad. Nat. Sci. Phila., Vol. XI, for 1860 (printed as a whole in 1861).
THEODORE GILL.

Astroscopus (Brevoort) Gill, 20; orthotype *URANOSCOPIUS ANOPLOS* Cuv. & Val (young of *U. Y-GRÆCUM* Cuv. & Val).

Palinurichthys Gill, 20 (Jan., 1860); orthotype *CORYPILENA PERCIFORMIS* Mitchill. Substitute for *PALINURUS*, preoccupied. A synonym of *PALINURICHTHYS* Blkr, 1859.

Leptoblennius Gill, 21; orthotype *BLENNIUS SERPENTINUS* Storer.

685 GILL (1860). *Conspectus piscium in expeditione ad oceanum pacificum Septentrionalem. . . . Stimpson collectorum; Sicydiana*. Proc. Acad. Nat. Sci. Phila., 1860, 100-102.

THEODORE GILL.

Sicyopterus Gill, 101; orthotype *S. STIMPSONI* Gill.

Sicyogaster Gill, 102; orthotype *S. CONCOLOR* Gill. Preoccupied, replaced by *LENTIFES* Gthr.

686 GILL (1860) *Monograph of the Genus Labrosomus Sw.* Proc. Nat. Sci. Phila., 1860, 102-108.
THEODORE GILL.

Malacoctenus Gill, 103; orthotype *CLINUS DELALANDI* Cuv. & Val.

Gobioclinus Gill, 103; orthotype *CLINUS GOMO* Cuv. & Val.

Blennioclinus Gill, 103; orthotype *CLINUS BRACHYCEPHALUS* Cuv. & Val.

- Auchenionchus** Gill, 103; orthotype *CLINUS VARIOLOSUS* Cuv. & Val. Misprinted *ANCHENIONCHUS*.
- Calliclinus** Gill, 103; orthotype *CLINUS GENIGUTTATUS*.
- Ophioblennius** Gill, 103; orthotype *BLENNOPHIS WEBBI* Val. Substitute for *BLENNOPHIS* Val., preoccupied.
- Ophthalmolophus** Gill, 104; orthotype *CLINUS LATIPINNIS* Cuv. & Val.
687. GILL (1860). *Monograph of the Genus Labrax of Cuvier*. Proc. Acad. Nat. Sci. Phila., 1860, 108-120.
THEODORE GILL.
- Dicentrarchus** Gill, 109; orthotype *PERCA ELONGATA* St. Hilaire = *PERCA LABRAX* L. Same as *LABRAX* (Klein) Cuv., 1817, not *LABRAX* Pallas, 1811.
688. GUICHENOT (1860). *Notice sur un nouveau poisson du genre des Trichomyctères*. Rev. Mag. Zool., 2d sér., XII.
ALPHONSE GUICHENOT.
- Astemomycterus** Guichenot, XII, 525; orthotype *A. PUSILLUS* Guich.
689. GUICHENOT (1860). *Notice sur un nouveau poisson du groupe Ctenolobres (Labrastrum)*. Rev. Mag. Zool., 2d sér., XII.
ALPHONSE GUICHENOT.
- Labrastrum** Guichenot, XII, 152; orthotype (*CTENOLABRUS FLAGELLIFER* Cuv. & Val. A synonym of *DUYMÆRIA* Blkr.
690. GÜNTHER (1860). *Catalogue of the Fishes of the British Museum*. II.
ALBERT GÜNTHER.
- Atypus** Günther, II, 64; orthotype *A. STRIGATUS* Gthr. Name preoccupied in spiders; replaced by *ATYPICHTHYS* Gthr., 1862.
- Agrammus** Günther, II, 94; orthotype *LABRAX AGRAMMUS* T. & S.
- Glyptauchen** Günther, II, 121; orthotype *APISTUS PANDURATUS* Rich.
- Centropogon** Günther, II, 128; logotype *COTTUS AUSTRALIS* White.
- Pentaroge** Günther, II, 132; orthotype *APISTUS MARMORATUS* Cuv. & Val. A synonym of *GYMNAPISTES* Sw.
- Tetraroge** Günther, II, 132; logotype *APISTUS BARBATUS* Cuv. & Val.
- Polycaulus** Günther, II, 175; orthotype *SYNANCEIA ELONGATA* Cuv. & Val.
- Ptyonotus** Günther, II, 175; orthotype *TRIGLOPSIS THOMPSONI* Grd. Needlessly proposed as a substitute for *TRIGLOPSIS* on account of the earlier *TRIGLOPS*.
- Lepidotrigla** Günther, II, 196; logotype *TRIGLA ASPERA* Cuv. & Val. = *TRIGLA CAVILLONE* Lac.
- Agnus** Günther, II, 229; orthotype *URANOSCOPUS ANOPILOS* Cuv. & Val. A synonym of *ASTROSCOPUS* Gill.
- Anema** Günther, 229; logotype as restricted by Gill, 1861, *URANOSCOPUS ANOPILOS* Cuv. & Val. A synonym of *ASTROSCOPUS* Brevoort.
- Kathetostoma** Günther, 231; orthotype *URANOSCOPUS LEVIS* Bl. & Schn. Sometimes spelled *CATHETOSTOMA*.
- Epicopus** Günther, 248; orthotype *MERLUS GAYI* Guich. A synonym of *MERLUCCIUS* Raf.
- Platystethus** Günther, II, 301; orthotype *SCIÆNA CULTRATA* Forster; preoccupied; replaced by *BATHYSTETHUS* Gill, 1893.
- Collichthys** Günther, II, 312; orthotype *SCIÆNA LUCIDA* Rich. Same as *SCIÆNOIDES* Blyth, not of Richardson.
- Pentanemus** (Artedi) Günther, 330; orthotype *POLYNEMUS QUINQUARIUS* L.

Galeoides Gunther, II, 332; orthotype *POLYNEMUS POLYDACTYLUS* Vahl.

Dicrotus Gunther, II, 349; orthotype *D. ARMATUS* Gthr.

Hypsiptera Gunther, II, 386; orthotype II. *ARGENTEA* Gthr. A larva related to *GAIDROPSARUS* Raf.

Neptomenes Gunther, II, 389; orthotype *N. BRAMA* Gthr.

Pammelas Günther, II, 485 (June); orthotype *CORYPHÆNA PERCIFORMIS* Mitchell. Substitute for *PALINURUS* Dekay, preoccupied. A synonym of *PALINURICHTHYS* Blkr., 1859.

691. HOLBROOK (1860). *Ichthyology of South Carolina*. (Second edition; the first, in 1855, destroyed by fire.)

JOHN EDWARDS HOLBROOK.

(See No. 536, 1855.)

692. KAUP (1860). *Neue anähnliche Fische des Hamburger Museums*. Abh. Naturw. Verein Hamburg, 1859 (1860), IV, Abth. 2.

JOHANN JACOB KAUP.

Gnathophis Kaup, 7; orthotype *G. HETEROGNATHUS* Kaup. (An ally of *CONGERMURENA HABENATA*). Corresponds to *CONGERMURENA* as restricted by Ogilby, not of Bleeker.

Tæniophis Kaup, 10; orthotype *T. WESTPHALI* Kaup. A synonym of *GYMNOTHORAX*.

Cryptopterus Kaup, 11; orthotype *C. PUNCTICEPS* Kaup. Probably a synonym of *OPHICHTHYS*. Name preoccupied.

Crotalopsis Kaup, 12; orthotype *C. PUNCTIFER* Kaup.

Echiopsis Kaup, 13; orthotype *OPHISURUS INTERTINCTUS* Rich. A synonym of *CROTALOPSIS* Kaup.

Hoplunnis Kaup, 19; orthotype II. *SCHMIDTI* Kaup.

Priodonophis Kaup, 22; orthotype *GYMNOTHORAX OCELLATUS* Ag.

693. KAUP (1860). *Hoplarchus, neues Genus der Familie Labridæ*. Arch. Naturg., 1860, XXVI, pt. I.

JOHANN JACOB KAUP.

Hoplarchus Kaup, 128; orthotype II. *PENTACANTHUS* Kaup. A synonym of *CICHLAURIUS* SW. (*HEROS* Heckel).

694. KAUP (1860). *On Some New Genera and Species of Fishes Collected by Doctors Kerferstein and Heckel at Messina*. Ann. Mag. Nat. Hist., VI, 270-273.

JOHANN JACOB KAUP.

Stomiasunculus Kaup, V, 270; orthotype *S. HABBATUS* Kaup. A larva, allied to *STOMIUS*.

Porobronchus Kaup, V, 272; orthotype *P. LINEARIS* Kaup. A larva of *CARAPUS* (EIFFRASSER).

695. KAUP (1860). *Ueber die Chætodontidæ*. Wiegmann Archiv. Naturg., XXVI, pt. I, 133-156.

JOHANN JACOB KAUP.

Citharædus Kaup, 136; logotype *CHÆTODON ORNATISSIMUS* Solander.

Coradion Kaup, 137; orthotype *CHÆTODON CHRYSÆZONUS* Kuhl & Van Hasselt.

Eteira Kaup, XXVI, 137; orthotype *CHÆTODON TRIANGULARIS* Ruppell. A synonym of *MEGAPROCTODON* Guich.

Linophora Kaup, 137; orthotype *CHÆTODON AURIGA* Förskål

- Centropyge** Kaup, XXVI, 140; orthotype *C. TIBICEN* Kaup. A synonym of *HOLACANTHUS* Lac.
- Therapaina** Kaup, 140; orthotype *CHÆTODON STRIGATUS* (Langsdorff) Cuv. & Val. A synonym of *MICRACANTHUS* Sw.
696. KNER (1860). *Ueber Belonesox belizanus*, etc. Sitzb. Akad. Wiss. Wien, XL.
RUDOLPH KNER.
- Belonesox** Kner, XL, 419; orthotype *B. BELIZANUS* Kner.
697. KNER (1860). *Ueber einige noch unbeschriebene Fische*. Sitzb. Akad. Wiss. Wien, XXXIX.
RUDOLF KNER.
- Centropus** Kner, XXXIX, 531; orthotype *C. STAUROPHORUS* Kner. Name preoccupied. A synonym of *AMPHIPRIONICHTHYS* Blkr.
- Trichopsis** attributed to Kner. A synonym of *OSPHRONEMUS* Lac. Seems to be a slip of the pen for *TRICHOPUS*.
698. MARCK (1860). (*Fossile Fische*.) Verh. Nat. Ver. Preuss-Rhein. Westph. W. VON DER MARCK.
- Palæoscyllium** von der Marck, 47; orthotype *P. DECHENI* Marck (fossil). Name only, described in *Palæontographica*, XI, 67, 1863. Name preoccupied. An ally of *THYELLINA*.
699. MOLIN (1860). *Primitivæ Musci Archigymnasii Patavini (Pisces fossiles)*. Sitzb. Akad. Wiss. Wien, XL.
RAFFAELE MOLIN.
- Protogaleus** Molin, XL, 585; orthotype *P. CUVIERI* Molin (fossil). An ally or synonym of *SCOLIODON* M. & H.
700. PANDER (1860). *Ueber die Saurodipterinen, Dendrodipterinen, Glyptolepiden und Cheirolepiden des devonischen Systems*. St. Petersburg, IX.
CHRISTIAN HEINRICH PANDER.
- Polyplacodus** Pander, 28; orthotype *P. INCURVUS* Pander (not of Duff) = *P. WENJUKOWI* Rohon (fossil). A synonym of *CRICODUS* Ag.
701. PLIENINGER (1860). (*Xystrodus*.) Neues Jahrbuch.
WILHELM HEINRICH THEODOR VON PLIENINGER.
- Xystrodus** Plieninger, 695; orthotype *X. FINITIMUS* Plieninger.
702. POEY (1860). *Peces Cigros de la Isla de la Cuba*. Memorias de Cuba, II, July, 1860.
FELIPE POEY Y ALOY.
- Lucifuga** Poey, II, 95; orthotype *L. SUBTERRANEUS* Poey.
703. POEY (1860). *Poissons de Cuba: Espèces nouvelles*. In *Memorias sobre la historia natural de la Isla de Cuba*, etc. II, 115-356.
FELIPE POEY Y ALOY.
- Dinemus** Poey, II, 107, 161; orthotype *D. VENUSTUS* Poey. A synonym of *POLYMIXIA*, Lowe.
- Monoprion** Poey, II, 123; orthotype *M. MACULATUS* Poey. A synonym of *APOGON* Lac., *AMIA* Gronow.
- Verilus** Poey, II, 124; orthotype *V. SORDIUS* Poey.
- Latebrus** Poey, II, 168; orthotype *L. OCULATUS* Poey.

- Inermia** Poey, 11, 193; orthotype *I. VITTATA* Poey. An ally of *EMMELICHTHYS* Rich.
- Furcaria** Poey, 11, 194; orthotype *F. PUNCTA* Poey. An ally or subgenus of *CHROMIS* Cuv.
- Sphyrænops** Poey, 11, 249; orthotype *S. BAIRDIANUS* Poey.
- Joturus** Poey, 263; orthotype *J. RICHARDI* Poey.
- Erotelis** Poey, 11, 273; orthotype *E. VALENCIENNESI* Poey = *ELEOTRIS SMARAGDUS* Cuv. & Val.
- Chonophorus** Poey, 11, 274; orthotype *C. BUCCULENTUS* Poey = *Gobius BANANA* Cuv. & Val., probably = *Gobius TALASICA* Lichtenstein. Replaces *AWAOUS* Steind. of the same year but a few days later.
- Smaragdus** Poey, 11, 279; orthotype *Gobius SMARAGDUS* Cuv. & Val. = *SMARAGDUS VALENCIENNESI* Poey. A synonym of *GOBIONELLUS* Grd.
- Trifarcus** Poey, 11, 305; orthotype *T. RIVERENDI* Poey. A synonym of *CYPRINODON* Lac.
- Rivulus** Poey, 11, 307; orthotype *R. CYLINDRACEUS* Poey.
- Sardinia** Poey, 11, 311; orthotype *S. PSEUDOHISPANICA* Poey (not of Jordan & Evermann, which is *SARDINELLA ANCHOVIA* Cuv. & Val.). Same as *SARDINA* Antipa, which it replaces unless it be regarded as preoccupied by *SARDINIUS* von der Marck.
- Pontinus** Poey, 11, 172; orthotype *P. CASTOR* Poey.
704. SUCKLEY (1860). *Report of the Fishes Collected on the Survey (U. S. Pacific R. R.). Report on the SALMONIDÆ.* (Also in several other papers.)
GEORGE SUCKLEY (1830-).
- Oncorhynchus** Suckley, 312; orthotype (male of) *SALMO SCOUERI* Rich. = *SALMO CORBUSCHA* Walbaum. (The males of the Pacific salmon taken as a genus distinct from the females.)
705. STEINDACHNER (1860). *Beitrag zur Kenntniss der Gobioiden.* Sitzb. Math. Naturw. Classe Wien., XLII.
FRANZ STEINDACHNER
- Cyclogobius** Steindachner, XLII, 284; orthotype *Gobius LEPIDUS* Grd. A synonym of *LEPIDOGobius* Gill.
- Awaous** Steindachner, XLII, 289; type (after "les AWAOUS" Cuv. & Val.; *Gobius OCELLARIS* Cuv. & Val. from Hawaii) "*Gobius* (AWAOUS Val.) *LITERATUS* Heckel," from the Philippines, is the only species named except for the reference to Valenciennes. The name is a latinization of "les AWAOUS". AWAOUS is a synonym of *CHONOPHORUS* Poey. As AWAOUS was first used as a scientific name (as a subgenus of *Gobius*) in an article presented on July 12, 1860, it is probable that *CHONOPHORUS* Poey, issued in July, 1860, has actual priority.
- Oplopomus** (Ehrenberg) Steindachner, XLII, 290; orthotype *OPLOPOMUS PULCHER* Ehrenb. = *Gobius OPLOPOMUS* Cuv. & Val. (XII, 66). Not *OPLOPOMA* Grd., 1856. Same as *CENTROGobius* Btkr. (1874).
- Gobiopsis** Steindachner, XLII, 291; orthotype *Gobius MACROSTOMUS* Heckel. Very close to *WAITEA* Jordan, 1906.
706. TROSCHEL (1860). *Leptopterygius, neue Gattung der Discoboli.* Arch. Naturg. XXVI, 1.
FRANZ HERMANN TROSCHEL.

Leptopterygius Troschel, XXVI, 205; orthotype *L. coccoi* Troschel. A synonym of *GOUANIA* Nardo = *RUPISUGA* Sw.

707. WAGNER (1860). *Fossile Fische aus einem neuentdeckten Lager in Südbayerischem Tertiärgebirge*. Südbayer. Akad., I, 1860.

ANDREAS WAGNER.

Alosina Wagner, 54; orthotype *A. SALMONEA* Wagner (fossil).

708. WAGNER (1860). *Die Griffelzähler (Stylodontes) eine neue aufgestellte Familie . . . der rautenschuppige Ganoiden*. Gelehrte Anz. Bayer. Akad. Wiss., L.

ANDREAS WAGNER.

Homœolepis Wagner, 92; orthotype *H. DROSERA* Wagner (fossil). A synonym of *TETRAGONOLEPIS* Bronn.

Heterostichus Wagner, 93; orthotype *HETEROSTICHUS LATUS* Wagner (fossil). Name preoccupied; replaced by *HETEROSTROPHUS* Wagner, 1863.

709. WAGNER (1860). *Zur Charakteristik der Gattungen Sauropsis und Pachycormus*, etc. Gelehrte Anz. Bayer. Akad. Wiss., L.

ANDREAS WAGNER.

Hypsocormus Wagner, 214; orthotype *H. INSIGNIS* Wagner (fossil).

Euthyonotus Wagner, 214; orthotype *E. MICROPODIUS* Ag. (fossil) (*ESOX INCOGNITUS* Blainv.).

1861

710. AGASSIZ, A. (1861). *Notes on the Described Species of Holconoti Found on the Western Coast of North America*. Proc. Boston Soc. Nat. Hist., 1861, VIII, 122-134.

ALEXANDER AGASSIZ (1835-1910).

Sargosomus (Agassiz) Alex. Agassiz, 128; orthotype *S. FLUVIATILIS* Agassiz = *HYSTEROCARPUS TRASKI* Gibbons. A synonym of *HYSTEROCARPUS* Gibbons.

Metrogaster (Agassiz) Alex. Agassiz, VIII, 128; orthotype *CYMATOGASTER AGGREGATUS* Gibbons. A synonym of *CYMATOGASTER* Gibbons.

Bramopsis (Agassiz) Alex. Agassiz, VIII, 132; orthotype *B. MENTO* Agassiz = *HYPERPROSOPON ARGENTEUS* Gibbons. A synonym of *HYPERPROSOPON*.

Tæniotoca Alexander Agassiz, VIII, 133; orthotype *EMBIOTOCA LATERALIS* Agassiz.

Hypsurus Alexander Agassiz, VIII, 133; orthotype *EMBIOTOCA CARYI* Agassiz.

711. BLEEKER (1861). *Iets over de geslachten der Scaroiden en hunne Indisch-archipelagische soorten*. Versl. Akad. Amsterdam, XII, 1861, 228-244.

PIETER BLEEKER.

Pseudodax Bleeker, 229; orthotype *ODAX MOLUCCANUS* Cuv. & Val.

Callyodontichthys Bleeker, 230; orthotype *SCARUS FLAVESCENS* Blkr. (not of Bloch & Schneider).

Pseudoscarus Bleeker, 231; logotype *P. MICRORHINOS* Blkr.

712. BLEEKER (1861). (*Labridæ.*) Proc. Zool. Soc. London, 1861.

PIETER BLEEKER.

Ophthalmolepis Bleeker, 413; orthotype *JULIS LINEOLATUS* Cuv. & Val.

713. BLEEKER (1861). *Zesde bijdrage tot de kennis der vischfauna van Timor*. Nat. Tijdschr. Neder.-Indie, XXII, 1861, 247-261.

PIETER BLEEKER.

Oxymetopon Bleeker, VI, 12; orthotype *O. TYPUS* Blkr.

714. BLEEKER (1861). *Notice sur le genre Trachinus et ses espèces*. Ann. Sci. Nat., XVI; reprinted in 1862.

PIETER BLEEKER.

Echiichthys Bleeker, 379; orthotype *E. VIPERA* Blkr.

Pseudotrachinus Bleeker, 379; orthotype *P. RADIATUS* Blkr.

715. CASTELNAU (1861) *Mémoire sur les poissons de l'Afrique Australe*.

Paris, VII.

FRANÇOIS LAPORTE DE CASTELNAU.

Boopsidea Castelnau, 25; orthotype. *B. INORNATA* Castelnau.

Ichthyorhamphos Castelnau, 35; orthotype *I. PAPPEI* Castelnau. A synonym of *OPLEGNATHUS*.

Sandelia Castelnau, 36; orthotype *S. BAINSI* Castelnau. A synonym of *SPIROBRANCHUS*.

Stromatoidea Castelnau 44; orthotype *S. LAYARDI* Castelnau, not *STROMATEOIDES* Blkr., 1851.

Gnathendalia Castelnau, 57; orthotype *G. VULNERATA* Castelnau.

Hydrocyonoides Castelnau, 66; orthotype *H. CUVIERI* Castelnau; a synonym of *SARCODACES*.

Algoa Castelnau, 69; orthotype *A. VIRIDIS* Castelnau.

Athæna Castelnau, 72; orthotype *A. FASCIATA* Castelnau.

Aledon Castelnau, 75; orthotype *A. STORERI* Castelnau. A synonym of *Mola*.

716. COSTA (1861). (*Fossil Fishes.*): *Palæontologia Regno Napoli*. III.

ORONZIO GABRIELE COSTA.

Centropterus Costa, III, 123; orthotype *C. LIVIDUS* Costa (fossil). An ally of *ETMOPTERUS* Raf.

717. EGERTON (1861). *Description of Tristichopterus, Acanthodes, Climatius*, etc. (In *Figures and Descriptions of British Organic Remains.*) Mem. Geol. Surv., 1861.

PHILIP DE MALPAS GREY EGERTON.

Holophagus Egerton, X, 19; orthotype *H. GULA* Egert. (fossil). A synonym of *UNDINA* Munster.

Tristichopterus Egerton, 51; orthotype *T. ALATUS* Egert. (fossil).

718. FILIPPI (1861). *Note Zoologische*. Arch. Zool. Anat. Fisiol., I.

FILIPPO DE FILIPPI.

Lebistes Filippi, I, 69; orthotype *L. PÆCILOIDES* Filippi.

719. GILL (1861). *Catalogue of the Fishes of the Eastern Coast of North America, from Greenland to Georgia*. Issued as a supplement to the *Proc. Acad. Nat. Sci. Phila.*, 1861, and dated February, 1861.

THEODORE GILL.

In this paper numerous new generic names are introduced in connection with the type species, the genera being defined later. Under present usage, these names date from the indication of the type species. No question of priority is here concerned except with *REINHARDTIUS* Gill, called *PLATYSOMATICHTHYS* by Bleeker in 1862, before *REINHARDTIUS* was defined, and *HYPSOMLENNIUS* Gill, called *ISESTHES* by Jordan & Gilbert, 1881, before a definition of *HYPSOMLENNIUS* was published.

NOTE. The most of the many new genera, indicated by American authors from 1860 to 1875, occur in the proceedings of scientific societies in Philadelphia, New York and Boston, and especially in those of the Academy of Natural Sciences in Philadelphia. The bound volumes of these proceedings were issued in the year subsequent to the reading of the papers, as for example that of 1861 in 1862. But separate copies of most of these papers were issued in the date year. In this record, the papers are credited to the date year. In the few cases in which questions of priority are involved, I have tried to secure the exact dates concerned.

- Uranoblepus** 5; orthotype (not named) *SYNANCEIA ELONGATA* Cuv. & Val. A substitute for *TRACHICEPHALUS* Sw., preoccupied. A synonym of *POLYCAULUS* Gthr., 1860.
- Ctenolucius** Gill, 8; orthotype not named = *LUCIOCHARAX INSCULPTUS* Steind. It is described as an ally of *XIPHOSTOMA*, a South American CHARACIN, identical with *LUCIOCHARAX* Steind., 1876, which name it should replace.
- Triloburus** Gill, 30; orthotype *PERCA TRIFURCA* L. = *P. PHILADELPHICA* L. A section of *CENTROPRISTES* Cuv.
- Promicropterus** Gill, 31; orthotype *RYPTICUS MACULATUS* Holbrook = *BODIANUS BISTRISPINUS* Mitchill.
- Anisotremus** Gill, 32; orthotype *PRISTIPOMA RODO* Cuv. & Val. = *SPARUS VIRGINICUS* L.
- Bairdiella** Gill, 33; orthotype *BODIANUS ARGYROLEUCUS* Mitchill = *DIPTERODON CHRYSURUS* Lac.
- Palinurichthys** Gill, 34; orthotype *PALINURUS PERCIFORMIS* Storer. Substitute for *PALINURUS*, preoccupied; a synonym of *PALINURICHTHYS* Blkr., 1860.
- Poronotus** Gill, 35; orthotype *RHOMBUS TRIACANTHUS* Storer.
- Lepturus** (Artedi) Gill, 35; orthotype *TRICHIURUS LEPTURUS* L. A revival of a pre-Linnaean name. A synonym of *TRICHIURUS* L.
- Blepharichthys** Gill, 36; orthotype *ZEUS CRINITUS* Mitchill. A substitute for *BLEPHARIS* Cuv., preoccupied. A synonym of *ALECTIS* Raf.
- Solenostomus** (Gronow) Gill, 38; orthotype *FISTULARIA TABACARIA* L. A synonym of *FISTULARIA* L.
- Pygosteus** (Brevoort) Gill, 39; orthotype *GASTEROSTEUS OCCIDENTALS* Cuv. & Val. Val. = *G. PUNGITIUS* L.
- Trichidion** (Klein) Gill, 40; logotype *POLYNEMUS VIRGINICUS* L. A revival of a pre-Linnaean name. A synonym of *POLYNEMUS* L.
- Argyrotænia** Gill, 40; orthotype *AMMODYTES VITTATUS* Storer. A synonym of *AMMODYTES* L.
- Oncocottus** Gill, 42; orthotype *COTTUS HEXACORNIS* Storer = *COTTUS QUADRICORNIS* Rich. Misprinted *ONCHOCOTTUS*.
- Hypleurochilus** Gill, 44; logotype *BLENNIUS MULTIFILIS* Grd. = *BLENNIUS GEMINATUS* Wood.
- Dormitator** Gill, 44; orthotype *ELECTRIS SOMNOLENTUS* Grd. = *SCIÆNA MACULATA* Bloch.
- Hypsoblennius** Gill, 44; orthotype *BLENNIUS HENTZ* Le Sueur (no description of genus). Replaces *ISESTHES* J. & G.
- Leptoblennius** Gill, 44; orthotype *BLENNIUS SERPENTINUS* Storer.
- Centroblennius** Gill, 45; logotype *LUMPENUS NUBILUS* Rich.
- Leptoclinus** Gill, 45; orthotype *LUMPENUS ACULEATUS* Reinh.
- Reinhardtius** Gill, 50; orthotype *PLEURONECTES CYNOGLOSSUS* Fabricius, not of L. =

PLEURONECTES HIPPOGLOSSOIDES Walbaum. Replaces PLATYSOMATICHTHYS Blkr., 1862.

Chænopsetta Gill, 50; orthotype PLATESSA OBLONGA Storer. A synonym of PARALICHTHYS Grd.

Drepanopsetta Gill, 50; orthotype PLEURONECTES PLATESSOIDES Fabricius. A synonym of HIPPOGLOSSOIDES Gottsche.

Myzopsetta Gill, 51; orthotype PLATESSA FERRUGINEA Storer. A synonym of LIMANDA Gottsche.

Lophopsetta Gill, 51; orthotype PLEURONECTES MACULATUS Mitchill.

Glossichthys Gill, 51; orthotype PLEURONECTES PLAGUSIA L. A synonym of SYMPHYRUS Raf.

Trachinocephalus Gill, 53; orthotype SAURUS MYOPS Cuv. & Val.

Alausella Gill, 54; orthotype CLUPEA PARVULA Mitchill. A synonym of POMOLOBUS Raf.

Opisthonema Gill, 54; orthotype "O. THRISSE Gill" (not CLUPEA THRISSE Osbeck) = MEGALOPS OGLINA Le Sueur.

Brevoortia Gill, 55; orthotype ALOSA MENHADEN Storer = CLUPEA TYRANNUS Latrobe.

Conorhynchus (Nozemann) Gill, 55; orthotype BUTYRINUS VALPES Storer (ALBUTA VALPES). Revival of a pre-Linnean name, 1757; a synonym of ALBULA Gronow.

Isognatha (Dekay) Gill, 56; orthotype ANGUILLA OCEANICA Storer = MURENA CONGER L. A synonym of LEPTOCEPHALUS GRONOW = CONGER Cuv.

Ariopsis Gill, 56; orthotype ARIUS MILBERTI = SILURUS FELIS L. A synonym of HEXANEMATICHTHYS Blkr., 1858.

Ceratacanthus Gill, 57; orthotype MONACANTHUS AURANTIACUS.

Aprionodon Gill, 59; orthotype SQUALUS PUNCTATUS Mitchill. A substitute for APRION; preoccupied in fishes.

Cestracion (Klein) Gill, 59; orthotype SQUALUS ZYGÆNA L. A synonym of SPIRINA Raf.

Eugomphodus Gill, 60; orthotype CARCHARIAS GRISEUS Storer. A section under ODONTASPIS AGASSIZ = CARCHARIAS Raf.

Narcacion (Klein) Gill, 61; orthotype (RAJA TORPEDO L.). A revival of a pre-Linnean name; same as TORPEDO Dum.

720. GILL (1861). *Synopsis of the Subfamily of Clupeinae*, etc. Proc. Acad. Nat. Sci. Phila., 1861.
THEODORE GILL.

Alausella Gill, 36; orthotype CLUPEA PARVULA Mitchill, the young of some species of POMOLOBUS, perhaps P. MEDIOCRIS (repeated from *Catalogue Fishes East Coast*).

Opisthonema Gill, 37; orthotype CLUPANODON THRISSE Lac. (not of Osbeck) = MEGALOPS OGLINA Le Sueur (repeated from *Catalogue*).

Opisthopterus Gill, 37, 38; orthotype PRISTIGASTER TARTOOR Cuv. & Val.

Brevoortia Gill, 37; orthotype CLUPEA MENHADEN Mitchill = CLUPEA PATRONUS Latrobe. (Repeated from *Catalogue*.)

721. GILL (1861). *Synopsis of the Family of Percinae*. Proc. Acad. Nat. Sci. Phila.
THEODORE GILL.

Asperulus (Klein) Gill, 46; orthotype PERCA ZINGEL L. Equivalent to ZINGEL Oken = ASPERO Cuv.

Kuhlia Gill, 48; orthotype *PERCA CILIATA* Cuv. & Val.

Hypopterus Gill, 51; orthotype *PSAMMOPERCA MACROPTERA* Gthr.

Percosoma Gill, 51; orthotype *PERCICHTHYS CHILENSIS* Grd.

Deuteropterus Gill, 51; orthotype *PERCA MARGINATA* Cuv. & Val.

Liopropoma Gill, 52; orthotype *PERCA ABERRANS* Poey.

722. GILL (1861). *Synopsis generum Rhyptici et Affinum*. Proc. Acad. Nat. Sci. Phila.

THEODORE GILL.

Dermatolepis Gill, 54; orthotype *D. PUNCTATUS* Gill.

723. GILL (1861). *On Several New Generic Types of Fishes*. Proc. Acad. Nat. Sci. Phila., 1861.

Podothecus Gill, 77, 259; orthotype *P. PERISTETHUS* Gill = *AGONUS ACIPENSIRINUS* Pallas.

Brachyopsis Gill, 77; orthotype not named; said to be same as *AGONUS* Sw.

Hoplopagrus Gill, 78; orthotype *H. GUNTHERI* Gill.

Rhinoscion Gill, 78; orthotype *AMBLONDON SATURNUS* Grd.

Stephanolepis Gill, 78; orthotype *MONACANTHUS SETIFER* Bennett.

724. GILL (1861). *Revision of the Genera of North American Scianinae*. Proc. Acad. Nat. Sci. Phila.

THEODORE GILL.

Cynoscion Gill, 81; orthotype *OTOLITHUS REGALIS* Cuv. & Val.

Anomiolepis Gill, 82; orthotype a Chinese species unnamed, allied to *CORVINA TRIDENTIFER* Rich., but without small teeth in upper jaw.

Plagioscion Gill, 82; no species indicated; logotype *SCIÆNA SQUAMOSISSIMA* Heckel, of Brazil.

Rhinoscion Gill, 78, 85; orthotype *AMBLONDON SATURNUS* Grd. A synonym of *CHEILOTREMA* Tschudi.

Menticirrhus Gill, 86; orthotype *PERCA ALBURNUS* L. = *CYPRINUS AMERICANUS* L., 1758.

Pachypops Gill, 87; orthotype *P. TRIFILIS* Gill.

Genyonemus Gill, 87; orthotype *LEIOSTOMUS LINEATUS* Ayres.

725. GILL (1861). *Two New Species of Marine Fishes*. Proc. Acad. Nat. Sci. Phila.

THEODORE GILL.

Hyporthodus Gill, 98; orthotype *H. FLAVICAUDA* Gill = *SERRANUS NIVEATUS* Cuv. & Val. A synonym of *EPINEPHALUS* Bloch.

Sarothrodus Gill, 99; orthotype *CHÆTODON CAPISTRATUS* Gill. Name a substitute for *CHÆTODON* as used generally, the name being transferred to *POMACANTHUS*, to the species called *CHÆTODON* by Artedi (1738, before Linnæus), none of them being true *CHÆTODONS*. This change seems needless and not allowable.

726. GILL (1861). *Haploidonotinae*. Proc. Acad. Nat. Sci. Phila.

THEODORE GILL.

Haploidonotus Gill, 101; orthotype *APLODINOTUS GRUNNIENS* Raf. A revision of the spelling of *APLODINOTUS*.

727. GILL (1861). *Synopsis of the Uranoscopoids*. Proc. Acad. Nat. Sci. Phila.

THEODORE GILL.

- Nematagnus** Gill, 113; orthotype *URANOSCOPUS FILIBARBIS* Cuv. & Val.
Upselonphorus Gill, 113; orthotype *URANOSCOPUS Y-GRÆCUM* Cuv. & Val. A synonym of *ASTROSCOPUS* Brevoort.
Cathetostoma Gill, 114; orthotype *URANOSCOPUS LEVIS* Bloch. A revised spelling of *KATHETOSTOMA*.
Genyagnus Gill, 115; orthotype *URANOSCOPUS MONOPTERYGIUS* Bloch.
Gnathagnus Gill, 115; orthotype *URANOSCOPUS ELONGATUS* T. & S.
- 728 GILL (1861). *Notes on Some Genera of Fishes of the Western Coast of North America*. Proc. Acad. Nat. Sci. Phila.
 THEODORE GILL.
- Atractoperca** Gill, 164; orthotype *LABRAX CLATHRATUS* Grd. A synonym of *PARALABRAX* Grd.
Archoplites Gill, 165; orthotype *AMBLOPLITES INTERRUPTUS* Grd.
Parehippus Gill, 165; orthotype *EPHIPPIUS ZONATUS* Grd. A synonym of *CHÆTO-DIPTERUS* Lac.
Hypsypops Gill, 165; orthotype *GLYPHISODON RUBICUNDUS* Girard.
Sebastodes Gill, 165; orthotype *SEBASTES PAUCISPINIS* Ayres.
Acantholebius Gill, 166; orthotype *CHIROPIS NEBULOSUS* Grd. = *HEX. STELLERI* Tilesius. A synonym of *HEXAGRAMMOS* Steller.
Pleurogrammus Gill, 166; orthotype *LABRAX MONOPTERYGIUS* Pallas.
Grammatopleurus Gill, 166; orthotype *LABRAX LAGOCEPHALUS* Pallas. A synonym of *HEXAGRAMMOS* Steller.
Megalocottus Gill, 166; orthotype *COTTUS PLATYCEPHALUS* Pallas.
Clinocottus Gill, 166; orthotype *OLIGOCOTTUS ANALIS* Grd.
Blennicottus Gill, 166; orthotype *OLIGOCOTTUS GLOBICEPS* Grd.
Hypsagonus Gill, 167, 259; orthotype *ASPIDOPHORUS QUADRICORNIS* Cuv. & Val.
Paragonus Gill, X111, 167, 259; orthotype *AGONUS ACIPENSERINUS* Tilesius. A synonym of *PODOTHECUS* Gill.
Agonopsis Gill, X111, 167, 259; orthotype *ASPIDOPHORUS CHILOËNSIS* Krøyer.
Leptagonus Gill, X111, 167, 259; orthotype *AGONUS SPINOSISSIMUS* Krøyer.
Brachyopsis Gill, 167, 259; logotype *AGONUS ROSTRATUS* Tilesius.
Anoplagonus Gill, 167; orthotype *ASPIDOPHOROIDES INERMIS* Gthr.
Brosomphycis Gill, 168; orthotype *BROSMIUS MARGINATUS* Ayres.
729. GILL (1861). *On a New Type of Aulostomatoids, Found in Washington Territory*. Proc. Acad. Nat. Sci. Phila.
 THEODORE GILL.
- Aulorhynchus** Gill, 169; orthotype *A. FLAVIDUS* Gill.
730. GILL (1861). *Description of a New Generic Type of Blennioids*. Proc. Acad. Nat. Sci. Phila.
 THEODORE GILL.
- Anoplarchus** Gill, 261; orthotype *A. PURPURESCENS* Gill
731. GILL (1861). *Monograph of the Tridigitate Uranoscopoids*. Proc. Acad. Nat. Sci. Phila.
 THEODORE GILL.
- Myxodagnus** Gill, 269; orthotype *M. OPERCULARIS* Gill
732. GILL (1861). *Synopsis of the Polynematoids*. Proc. Acad. Nat. Sci. Phila.
 THEODORE GILL.
- Polistonemus** Gill, 277; orthotype *POLYNEMUS MULTIFILIS* T. & S.

733. GILL (1861). *Synopsis of the Sillaginoids*. Proc. Acad. Nat. Sci. Phila.
THEODORE GILL.

Leptoperca Gill, 502; orthotype PERCA SCHRÆTZER L. Same as SCHRAITZER
Schaefer, if the latter is eligible

Sillaginodes Gill, 504; orthotype SILLAGO PUNCTATA Cuv. & Val.

Sillaginopsis Gill, 505; orthotype SILLAGO DOMINA Cuv. & Val.

734. GILL (1861). *Synopsis of the Chænichthyoids*. Proc. Acad. Nat. Sci. Phila.
THEODORE GILL.

Champsocephalus Gill, 509; orthotype CHÆNICHTHYS ESOX Gthr.

735. GILL (1861). *Synopsis of the Notothenioids*. Proc. Acad. Nat. Sci.
THEODORE GILL.

Macronotothen Gill, 520; orthotype NOTOTHENIA ROSSI Rich.

Eleginops Gill, 522; logotype APHRITIS UNDULATUS Jenyns.

736. GILL (1861). *Analytical Synopsis of the Squali and Revision of the Nomenclature of the Genera, Followed by "Squalorum generum novorum descriptiones diagnosticae,"* 330-422; reprint, 1-47. Ann. Lyc. Nat. Hist. N. Y., VII, Dec., 1861.

THEODORE GILL.

Isuropsis Gill, VII, 32 (397); orthotype OXYRHINA GLAUCA M. & H. (not SQUALUS GLAUCUS L.).

Hypoprionodon Gill, 35 (400); orthotype CARCHARIAS HEMIODON Val.

Platypodon Gill, 35 (400); orthotype CARCHARIAS MENISORRAH M. & H.

Eulamia Gill, 35 (400); orthotype "CARCHARIAS LAMIA Raf." = CARCHARHINUS COMMERSONIANUS Blainv. A synonym of CARCHARHINUS Blainv.

Isogomphodon Gill, 35 (400); orthotype CARCHARIAS OXYRHYNCHIUS M. & H.

Lamiopsis Gill, 35 (400); orthotype CARCHARIAS TEMMINCKI M. & H.

Isoplagiodon Gill, VII, 35 (400); orthotype CARCHARIAS SORRAH Val.

Aprionodon Gill, VII, 35 (400); orthotype CARCHARIAS ISODON M. & H. Substitute for APRION, preoccupied.

Cynocephalus (Klein) Gill, VII, 35 (400); logotype SQUALUS GLAUCUS L. Name preoccupied in monkeys, unless dating from Klein (*Schauplatz*). A synonym of PRIONACE Cantor.

Boreogaleus Gill, VII, 36 (401); orthotype SQUALUS ARCTICUS Faber.

Chænogaleus Gill, VII, 36 (401); orthotype HEMIGALEUS MACROSTOMA Gthr. Probably not distinct from HEMIGALEUS, which preoccupied name it should perhaps replace.

Reniceps Gill, VII, 37 (402); orthotype SQUALUS TIBURO L.

Cestracion (Klein) Gill, 37 (402); orthotype SQUALUS ZYGÆNA L. A synonym of SPHYRNA Raf., not CESTRACION Cuv., 1817.

Eusphyra Gill, VII, 37 (402); orthotype ZYGÆNA BLOCHI Cuv.

Halælorus Gill, 41 (406) orthotype SCYLLIUM BURGERI M. & H.

Cephaloscyllium Gill, 42 (403); orthotype SCYLLIUM LATICEPS A. Duméril.

Parascyllum Gill, VII, 42 (412); orthotype HEMISCYLLIUM VARIOLATUM Dum.

Synchismus Gill, 42 (407); orthotype SQUALUS TUBERCULATUS Bl. & Schn. A synonym of CHILOSCYLLIUM M. & H.

Rhina (Klein) Gill, VII, 42 (407); orthotype RHINA SQUATINA Raf. = SQUALUS SQUATINA L., after Klein, 1745-1775. A synonym of SQUATINA Constant Duméril, 1806.

Rhamphobatis Gill, VII, 42 (407); type *RHINA ANCYLOSTOMA*. A synonym of *RHINA* Bl. & Schn., not of *RHINA* Klein.

737. GILL (1861). (*Torpedo*.) Ann. Lyc. N. Y., VIII, 1861.

THEODORE GILL.

Tetranarce Gill, VII, 387; orthotype *TORPEDO OCCIDENTALIS* Storer. A section or subgenus under *TORPEDO* Dum.; misprinted *TETRONARCE*.

Cyclonarce Gill, VII, 387; orthotype *RAJA TIMLEI* Bl. & Schn. A synonym of *NARCINE* Henle.

Gonionarce Gill, VII, 387; orthotype *NARCINE INDICA* Henle. A synonym of *NARCINE* Henle.

738. GILL (1861). *Observations on the Genus Cottus*, etc. Proc. Boston Soc. Nat. Hist., VIII.

THEODORE GILL.

Potamocottus Gill, 40; logotype *P. PUNCTULATUS* Gill. A synonym of *COTTOPSIS* Grd.

739. GULIA (1861). *Tentamen ichthyologia Melitensis*, etc. (In Latin; also in Maltese as *Catalogu tal hut ta Malta*.)

GAVINO GULIA (d. 1889).

Micromugil Gulia, 11; orthotype *M. TUMIDUS* Gulia = *CYPRINODON CALARITANUS* Cuv. & Val. A synonym of *APHANIUS* Nardo.

740. GÜNTHER (1861). *Catalogue of the Fishes of the British Museum*. III.

ALBERT GÜNTHER.

Latrunculus Günther, III, 80; orthotype *GOBIOUS ALBUS* Parnell.

Lentipes Günther, III, 96; orthotype *SICYOGASTER CONCOLOR* Gill. A substitute for *SICYOGASTER* Gill, preoccupied.

Vulsus Günther, III, 151; orthotype *CALLIONYMUS DACTYLOPUS* Bennett. A synonym of *DACTYLOPUS* Gill, wrongly stated to be preoccupied.

Thalassophryne Günther, III, 174; orthotype *T. MACULOSA* Gthr.

Saccarius Günther, III, 183; orthotype *S. LINEATUS* Gthr.

Auchenopterus Günther, III, 275; orthotype *A. MONOPHTHALMUS* Gthr. Name regarded as preoccupied as *AUCHENIPTERUS* Cuv. & Val.; replaced by *CREMNOBATES* Gthr.

Asternopteryx (Rüppell) Günther, II, 288; orthotype *A. GUNNELLIFORMIS* Rüppell.

Acronurus (Gronow) Günther, II, 345; logotype *ACANTHURUS ARGENTEUS* Q & G. Larval form of *HEPATUS* Gronow (= *ACANTHURUS* Forskål).

Myxus Günther, III, 466; logotype *M. ELONGATUS* Gthr.

Diplocrepis Günther, III, 506; orthotype *LEPADOGASTER PUNICEUS* Rich.

Crepidogaster Günther, III, 507; logotype *C. TASMANIENSIS* Gthr. Name preoccupied; replaced by *ASPASPADASTER* Waite.

Psychrolutes Günther, III, 516; orthotype *P. PARADOXUS* Gthr.

741. GÜNTHER (1861). *On a New Genus of Australian Fresh-water Fishes, Nannoperca australis*. Ann. Mag. Nat. Hist., VII. Also in Proc. Zool. Soc. London, 1861, 116.

ALBERT GÜNTHER.

Nannoperca Günther, VII, 410; orthotype *N. AUSTRALIS* Gthr.

742. GÜNTHER (1861). *On Three New Trachinoid Fishes, Crapatalus*, etc. Ann. Mag. Nat. Hist., 1861, VII.

ALBERT GÜNTHER.

Crapatalus Günther, VII, 86; orthotype *C. NOVÆZELANDIÆ* Gthr.

743. GÜNTHER (1861). *A Preliminary Synopsis of the Labroid Genera.*
Ann. Mag. Nat. Hist., VIII.

Hypsigenys Günther VIII, 383; logotype *LABRUS MACRODONTUS* Lac. A synonym of *CHÆRODON* Blkr.

Semicossyphus Günther, VIII, 384; orthotype *COSSYPHUS RETICULATUS* Cuv. & Val.

Stethojulis Günther, VIII, 386; logotype *JULIS STRIGIVENTER* Bennett.

Hemigymnus Günther, IV, 386; orthotype *MULLUS FASCIATUS* Thunberg (1776).
A synonym of *THALLIURUS* Sw.

743A. GÜNTHER (1861). *On a Collection of Fishes Sent by Capt. Dow from the Pacific Coast of Central America.* Proc. Zool. Soc. London.

ALBERT GÜNTHER.

Cremnobates Günther, 374; orthotype *AUCHENOPTERUS MONOPHTHALMUS* Gthr.
A substitute for *AUCHENOPTERUS* Gthr., preoccupied as *AUCHENIPTERUS*.

744. JEITTELES (1861). *Zoologische Mittheilungen. I. Ueber zwei für die Fauna Ungarns neue Fische, Lucioperca volgensis Cuv. und Val. und Alburnus maculatus Kessler.* Verh. Zool. Bot. Ges. Wien, XI.

LUDWIG HEINRICH JEITTELES (1830-1883).

Alburnoides Jeitteles, XI, 325; orthotype *ALBURNUS MACULATUS* Kessler.

745. KEYSERLING (1861). *Neue Cypriniden aus Persien.* Zeits. Ges. Naturw. Berlin, XVII.

EUGEN VON KEYSERLING (1833-1889).

Bungia Keyserling, XVII, 18; orthotype *B. NIGRESCENS* Keys.

746. KRÖYER (1861). *Nogle Bidrag til Nordisk ichthyologi.* Nat. Tidskr. 1861.

HENRIK NICOLAI KRÖYER.

Careproctus Krøyer, I, 257; orthotype *C. REINHARDTI* Krøyer.

746A. MOLIN (1861). *De Rajibus tribus Bolcanis.* XLII. *Raffaele Molin.*
Sitzb. Akad. Wiss. Wien.

Alexandrinus Molin, 579; orthotype *A. MOLINI* Zigno (fossil) (*Mem. Reale Inst. Veneto*, VIII, 299, 1874) = *RAJA MURICATA* Volta, 1796. A synonym of *TÆNIURA* M. & H.

WILHELM CARL HARTWIG PETERS.

747. PETERS (1861). *Ueber zwei neue Gattungen von Fischen . . . aus dem Ganges, etc.* Mon. Akad. Wiss. Berlin.

WILHELM CARL HARTWIG PETERS.

Pterocryptis Peters, 712; orthotype *PTEROCRYPTIS GANGETICA* Peters.

Acanthocobitis Peters, 712; orthotype *A. LONGIPINNIS* Peters.

748. POEY (1861). *Poissons de Cuba.* Memorias de Cuba, II, June, 1861.

FELIPE POEY Y ALOY.

Hollardia Poey, II, 348; orthotype *H. HOLLARDI* Poey.

Limia Poey, II, 383; orthotype *PÆCILIA VITTATA* Guich. A synonym of *PÆCILIA* Bl. & Schn.

Prospinus Poey, II, 388; logotype *PLECTROPOMA CHLOROPTERUM* Cuv. & Val. A synonym of *ALPHESTES* Bl. & Schn.

Decaptus Poey, II, 391; orthotype *SERIOLA PINNULATA*. Poey. A synonym of *ELAGATIS* Bennett.

749 SALTER (1861). (*Byssacanthus*.) Mem. Geol. Soc., 1861.

JOHN WILLIAM SALTER (1820-1869).

Byssacanthus Salter, 244; orthotype a finspine allied to *SPHENACANTHUS* (fossil).

750. SCHMID (1861). *Die Fischfauna der Trias bei Jena*. Nova Acta Acad. Cæs. Leop.-Carol. XXIX, 1862 (separates in 1861).

E. E. SCHMID.

Thelodus Schmid, XXIX, 27; logotype *T. INFLATUS* Schmid (fossil). A synonym of *ASTERODON*.

751. SYMONDS (1861). *Old Bones*.

WILLIAM SAMUEL SYMONDS (1818-1887).

Lophodus Symonds, 103; (orthotype *ACRODUS KEUPERIANUS* M. & S.) (fossil) (not *LOPHODUS* Romanowsky, 1864).

752. VALENCIENNES (1861). (*Acanthomullus*.) Comptes Rendus Acad. Sci. Paris, LII, 1861.

ACHILLE VALENCIENNES.

Acanthomullus Valenciennes, LII, 300; orthotype *A. ISABELLE* Val. (fossil).

1862

753. BLEEKER (1862). *Notice sur le genre Trachinus et ses espèces*. Versl. Akad. Amsterdam (reprinted from 1861).

PIETER BLEEKER.

Pseudotrachinus Bleeker, 113; orthotype *P. RADIATUS* Blkr.

Echiichthys Bleeker, 117; orthotype *E. VIPERA* Blkr.

754. BLEEKER (1862). *Conspectus generum Labroideorum analyticus*. Versl. Akad. Amsterdam, XIII, 1862, 94-109.

PIETER BLEEKER.

Pseudocheilinus Bleeker, 95; orthotype *CHEILINUS HEXATELENIA* Blkr.

Pseudocoris Bleeker, 97; orthotype *JULIS HETEROPTERUS* Blkr.

Pseudojulis Bleeker, 99; orthotype *P. GIRARDI* Blkr.

PlatyGLOSSUS (Klein) Bleeker, 99; orthotype *HALICHTERES MARGINATUS* Rüppell.

Hemitautoga Bleeker, 101; orthotype *TAUTOGA NOTOPHTHALMUS* Blkr. A synonym of *CORIS* Lac.

Macropharyngodon Bleeker, 100; orthotype *JULIS GEOFFROYI* Blkr.

Guntheria Bleeker, 101; orthotype *JULIS TRIMACULATA*, Q. & G.

Leptojulis Bleeker, 100; orthotype *L. CYANOPLEURA* Blkr.

Hemitautoga Bleeker, 101; orthotype *TAUTOGA NOTOPHTHALMUS* Blkr. A synonym of *GUNTHERIA* Blkr.

Pseudolabrus Bleeker, 101; orthotype *LABRUS RUBIGINOSUS* T. & S. (preoccupied) = *L. JAPONICUS* Houttuyn.

Novaculichthys Bleeker, 102; orthotype *LABRUS MACROLEPIDOTUS* Bloch.

Diproctacanthus Bleeker, 104; orthotype *LABROIDES XANTHURUS* Blkr.

755 BLEEKER (1862). *Sixième mémoire sur la fauna ichthyologique de l'île Batjan*. Versl. Akad. Amsterdam, XIV, 1862, 99-112.

PIETER BLEEKER.

Enchelyopus (Klein) Bleeker, 109; orthotype *TRICHIURUS LEPTURUS* L., not of Gronow. A synonym of *TRICHIURUS* L.

Eleutheronema Bleeker, 110; orthotype *POLYNEMUS TETRADACTYLUS* Shaw.

756. BLEEKER (1862). *Sur quelques genres de la famille des Pleuronectoides*, Versl. Akad. Amsterdam, XIII.

PIETER BLEEKER.

Citharus Bleeker, XIII, 424; tautotype *PLEURONECTES CITHARUS* Spinola = *P. LINGUATULA* L. Same as *CITHARUS* Röse, 1793; the later *CITHARUS*, being pre-occupied, has been replaced by *EUCITHARUS* Gill.

Hemirhombus Bleeker, XIII, 425; orthotype *H. GUINEENSIS* Bleeker. A synonym of *SYACIUM* Ranzani.

Clidoderma Bleeker, XIII, 425; orthotype *PLEURONECTES ASPERRIMA*, T. & S.

Pseudorhombus Bleeker, XIII, 426; orthotype *RHOMBUS POLYSPILOS* Blkr. Includes *RHOMBISCUS* Jordan & Snyder.

Citharichthys Bleeker, XIII, 427; orthotype *C. CAYENNENSIS* Blkr. = *C. SPILOPTERUS* Günther.

Arnoglossus Bleeker, XIII, 427; tautotype *PLEURONECTES ARNOGLOSSUS* Bl. & Schn. = *PLEURONECTES LATERNA* Walbaum.

Platysomatichthys Bleeker, XIII, 426; orthotype *PLEURONECTES PINGUIS* Fabricius. A synonym of *REINHARDTIUS* Gill.

Brachyprosopon Bleeker, XIII, 428; orthotype *PLEURONECTES MICROCEPHALUS* Donovan = *P. KITT* Walbaum. A synonym of *CYNICOGLOSSUS* Bon.

Pseudopleuronectes Bleeker, XIII, 428; orthotype *PLATESSA PLANA* Storer.

Heteroprosopon Bleeker, XIII, 429; orthotype *PLEURONECTES CORNUTUS* T. & S. A synonym of *PLEURONICHTHYS* Girard.

757. BLEEKER (1862). *Notices ichthyologiques (I-X)*. Versl. Akad. Amsterdam, XIV, 1862, 123-141.

PIETER BLEEKER.

Pseudupeneus Bleeker, 134; orthotype *P. PRAYENSIS* Blkr.

758. BLEEKER (1862). *Description de quelques espèces nouvelles de Silures de Suriname*. Versl. Akad. Amsterdam, XIV.

PIETER BLEEKER.

Pseudorhamdia Bleeker, 384; orthotype *PIMELODUS ASCITA* Blkr. (not *SILURUS ASCITA* L.) = *PIMELODUS MACULATUS* Lac. A synonym of *PIMELODUS* Lac. as restricted by Gill and authors generally. Bleeker (1862) limits *PIMELODUS* to *P. BAGRE*, allowing it to replace *FELICHTHYS* Sw. and *AILURICHTHYS* Baird (as also *BAGRE* Cuv., Oken).

759. BLEEKER (1862). *Notice sur les genres Parasilurus, Eutropiichthys, Pseudeutropius et Pseudopangasius*. Versl. Akad. Amsterdam, XIV, 1862, 390-399.

PIETER BLEEKER.

Parasilurus Bleeker, 394; orthotype *P. JAPONICUS* T. & S. = *SILURUS ASOTUS* L. Same as *GLANIS* Ag., 1856, not of Gronow, 1854.

Pseudeutropius Bleeker, 398; orthotype *P. BRACHYPTERUS* Blkr.

Eutropiichthys Bleeker, 398; orthotype *E. VACHA* Blkr.

Pseudopangasius Bleeker, 399; orthotype *P. POLYURANODON* Blkr.

760. BLEEKER (1862). *Notice sur les genres Trachelyopterichthys, Hemicetopsis et Pseudocetopsis*. Versl. Akad. Amsterdam, XIV.

PIETER BLEEKER.

Trachelyopterichthys Bleeker, XIV, 402; orthotype *T. TENIATUS* Kner.

Hemicetopsis Bleeker, 403; orthotype *CETOPSIS CANDIRA* Ag.

Pseudocetopsis Bleeker, 403; orthotype *CETOPSIS GOBIOIDES* Kner.

761. BLEEKER (1862). *Atlas ichthyologique des Indes Orientales Néerlandaises, publié sous les auspices du gouvernement colonial néerlandais. Tome II, Siluroïdes, etc.*

PIETER BLEEKER.

This notable paper was soon followed by another in which most of these genera occur. This is *Systema Silurorum revisum*. Ned. Tijdschr. Dierk., 1, 1863, 77-122.

Pseudancistrus Bleeker, 2; orthotype *HYPOSTOMUS BARBATUS* Cuv. & Val.

Hemiancistrus Bleeker, 2; orthotype *ANCISTRUS MEDIANUS* Kner.

Parancistrus Bleeker, 2; orthotype *HYPOSTOMUS AURANTIACUS* Castelnau

Pseudacanthicus Bleeker, 2; orthotype *HYPOSTOMUS SERRATUS* Cuv. & Val.

Pseudorinelepis Bleeker, 3; orthotype *RINELEPIS GENIBARBIS* Cuv. & Val.

Loricariichthys Bleeker, 3; orthotype *LORICARIA MACULATA* Bloch.

Pseudoloricaria Bleeker, 3; orthotype *LORICARIA LEVIUSCULA* Cuv. & Val.

Parahemiodon Bleeker, 3; orthotype *P. TYPUS* Blkr. A synonym of *LORICARIICHTHYS* Blkr.

Hemiloricaria Bleeker, 3; orthotype *H. CARACASENSIS* Blkr.

Pseudohemiodon Bleeker, 3; orthotype *HEMIODON PLATYCEPHALUS* Kner.

Rineloricaria Bleeker, 3; orthotype *L. LIMA* Kner.

Hemiodontichthys Bleeker, 4; orthotype *H. ACIPENSERINUS* Kner.

Oxyloricaria Bleeker, 5; orthotype *L. BARBATA* Kner.

Rhinodoras Bleeker, III, 5; orthotype *ONYDORAS D'ORIGNYI* (Kroyer). A synonym of *ONYDORAS*.

Lithodoras Bleeker, 5; orthotype *DORAS LITHOGASTER* Heckel. A synonym of *CENTROCHIR* Ag.

Platyodoras Bleeker, 5; orthotype *DORAS COSTATUS* L. A synonym of *DORAS*, as restricted by Günther and Eigenmann, not by Bleeker.

Pterodoras Bleeker, 5; orthotype *DORAS GRANULOSUS* Val. A synonym of *CENTROCHIR* Ag.

Acanthodoras Bleeker, 5; orthotype *SILURUS CATAPHRACTUS* L.

Astrodoras Bleeker, 5; orthotype *DORAS ASTERIFRONS* Kner. A synonym of *CENTROCHIR* Ag.

Amblyodoras Bleeker, 6; orthotype *DORAS AFFINIS* Kner.

Brachysynodontis Bleeker, 6; orthotype *SYNODONTIS BATENSODA* Ruppell.

Pseudosynodontis Bleeker, 6; orthotype *SYNODONTIS SERRATUS* Ruppell.

Hemisynodontis Bleeker, 6; orthotype *PIMELODUS MEMBRANACEUS* Geoffroy.

Leiosynodontis Bleeker, 6; orthotype *SYN. MACULOSUS* (young of *SILURUS* SCHAL. Bl. & Schn.)

Pseudauchenipterus Bleeker, 6; orthotype *SILURUS NODOSUS* Bloch.

Parauchenipterus Bleeker, 7; orthotype *SILURUS GALEATUS* L. A synonym of *TRACHYCORYSTES* Blkr.

Auchenipterichthys Bleeker, 7; orthotype *AUCH. THORACATUS* Kner.

Hemiaris Bleeker, 7; orthotype *CEPHALOCASSIS STORMI* Blkr.

Pseudarius Bleeker, 8; orthotype *ARIUS ARIUS* Cuv. & Val. A synonym of *TACHYSURUS* Lac. = *ARIUS* Cuv. & Val.

Diplomystes (Duméril) Bleeker, 8; orthotype *ARIUS PAPILLOSUS* Cuv. & Val (after les *DIPLOMYSTES* Dum.). Spelled *DIPLOMYSTAX* by Günther, 1864.

- Paradiplomystes** Bleeker, 8; orthotype *PIMELODUS CORUSCANS* Lichtenstein.
Bagrichthys Bleeker, 9; orthotype *B. HYPSELOPTERUS* Blkr.
Pseudobagrichthys Bleeker, 9; orthotype *BAGROIDES MACROPTERUS* Blkr.
Hemibagrus Bleeker, 9; orthotype *BAGRUS NEMURUS* Cuv. & Val.
Aspidobagrus Bleeker, 9; orthotype *BAGRUS GULIO* Cuv. & Val.
Hypselobagrus Bleeker, 10; orthotype *BAGRUS MACRONEMA* Blkr. Identical with *MYSTUS* (Gronow) Scopoli, 1763, as restricted by Jordan.
Hemisorubim Bleeker, 10; orthotype *PLATYSTOMA PLATYRHYNCHOS* Cuv. & Val.
Brachyplatystoma Bleeker, 10; orthotype *PLATYSTOMA VAILLANTI* Cuv. & Val.
Pseudoplatystoma Bleeker, 10; orthotype *SILURUS FASCIATUS* L.
Hemiplatystoma Bleeker, 10; orthotype *PLATYSTOMA TIGRINUM* Cuv. & Val.
 A synonym of *PSEUDOPLATYSTOMA*.
Sorubimichthys Bleeker, 10; orthotype *SORUBIM JANDIA* Spix.
Platystomaticthys Bleeker, 10; orthotype *PLATYSTOMA STURIO* Kner.
Leiarius Bleeker, 10; orthotype *A. LONGIBARBIS* Castelnau.
Pseudariodes Bleeker, 11; orthotype *SILURUS CLARIAS* Bloch, not of Linnæus, after Hasselquist. A synonym of *PIMELODUS* Lac.
Malacobagrus Bleeker, 11; orthotype *PIMELODUS FILAMENTOSUS* Lichtenstein. Perhaps synonym of *PIRATINGA*.
Pirarara (Spix) Bleeker, 11; orthotype *SILURUS HEMILOPTERUS* Bl. & Schn.
Parabagrus Bleeker, 11; orthotype *PIMELODUS PUSILLUS* Ranzani.
Pseudocalophysus Bleeker, 12; orthotype *PIMELODUS CTENODUS* Ag. = *CALOPHYSUS MACROPTERUS*. A synonym of *CALOPHYSUS* Müller.
Aglyptosternon Bleeker, 12; orthotype *SILURUS COUS* L.
Tetranematicthys Bleeker, 14; orthotype *AGENIOSUS QUADRIFILIS* Kner.
Psudageneiosus Bleeker, 14; orthotype *AGENEIOSUS BREVIFILIS* Cuv. & Val.
Pseudohypophthalmus Bleeker 15; orthotype *H. FIMBRIATUS* Kner = *H. EDENTULUS* Spix. A synonym of *HYPOPHTHALMUS* Spix.
Paracetopsis (Gnichenot) Bleeker, 16; orthotype *P. BLEEKERI* Guich.
Wallago Bleeker, 17; orthotype *SILURUS ATTU* Bl. & Schn.
Silurodes Bleeker, 17; orthotype *S. HYPOPHTHALMUS* Blkr.
Catastoma (Kuhl & Van Hasselt) Bleeker, 28; orthotype *ARIUS NASUTUS* Val.
 An undefined synonym of *NETUMA* Blkr.
762. BLEEKER (1862). *Beskrivning en ofdeeling van eene nieuwe soort van Brama (Abramis).*
 PIETER BLEEKER.
Brama (Klein) Bleeker, 211; type *CYPRINUS BRAMA* L. *ABRAMIS* Cuv., not *BRAMA* Bloch.
- 763, 764. COSTA (1862). (*Fossil Fishes.*) *Atti Reale Inst. Napoli*, VI.
 GABRIELE ORONZIO COSTA.
Giffonus Costa, VI, App. 26; orthotype *G. DEPERDITUS* Costa (fossil).
Urocomus Costa, VI, 32; orthotype *U. PICENUS* Costa (fossil). Doubtful fragments.
765. (COSTA 1862). *Di un novello genere di pesci Esocetidi.* *Ann. Mus. Zool. Univ. Napoli*, 1862, I.
 ACHILLE COSTA (1823-).
Grammiconotus Costa, I, 54; orthotype *G. BICOLOR* Costa = *SCOMBEROSOX RONDELETI* Cuv. & Val. Differs from *SCOMBEROSOX* in lacking the air bladder; jaws short.

766. COUCH (1862). *The History of the Fishes of the British Islands*. I.
JONATHAN COUCH.
Polyprosopus Couch, I, 67; orthotype *P. RASHLEIGHIANUS* Couch. = *SQUALUS*
MAXIMUS Gunner. A synonym of *CETORHINUS* Blainv.
767. DYBOWSKI (1862). *Versuch einer Monographie der Cypriniden Livlands*.
Arch. Naturg. Biol. Dorpat (1864, separates in 1862).
BENEDIKT IVAN DYBOWSKI (1834-).
Owsianka Bybowski, 146; orthotype *ASPIUS* **OWSIANKA** Cernay = *O. CZERNAYI*
Dybowski = *SQUALIUS* *BILINEATUS* Heckel. A synonym of *LEUCASPIUS*
Heckel.
768. GILL (1862). *Notice of a New Species of Hemilepidotus and Remarks on*
the Group (Temnistiæ) of Which It Is a Member. Proc. Acad. Nat. Sci.
Phila., XIV.
Oncocottus Gill, 13; orthotype *COTTUS* *QUADRICORNIS* L.
769. GILL (1862). *On the Subfamily of Argentiniæ*. Proc. Acad. Nat. Sci. Phila.
THEODORE GILL.
Retropinna Gill, 14; orthotype *ARGENTINA* *RETROPINNA* Rich. = *RETROPINNA*
RICHARDSONI Gill.
Mesopus Gill, 14; orthotype *ARGENTINA* *PRETIOSA* Grd. An error for *HYPOMESUS*;
an error at once corrected by Gill. *HYPOMESUS* should therefore stand.
Hypomesus Gill, 15; orthotype *ARGENTINA* *PRETIOSA* Grd. A synonym of *MESOPUS*
Gill, page 14, one or the other being left through defective proof-reading.
770. GILL (1862). *Appendix to the Synopsis of the Subfamily of Percinæ*. Proc.
Acad. Nat. Sci. Phila.
THEODORE GILL.
Chorististium Gill, 15; orthotype *LLOPROPOMA* *RUBRA* Poey.
Siniperca Gill, 16; orthotype *PERCA* *CHUATSI* Basilewsky.
771. GILL (1862). *Notes on the Scianoids of California*. Proc. Acad. Nat. Sci.
Phila., I.
Cirrimens Gill, 17; orthotype *UMDRINA* *OPHIOCEPHALA* Jenyns.
Brachydeuterus Gill, 17; orthotype *LARIMUS* *AURITUS* Cuv.
Odontoscion Gill, 18; orthotype *CORVINA* *DENTEX* Cuv. & Val.
Atractoscion Gill, 18; orthotype *OTOLITHIUS* *ÆQUIDENS* Cuv. & Val.
Archoscion Gill, 18; orthotype *OTOLITHIUS* *ANALIS* Jenyns.
Apseudobranchus Gill, 18; orthotype *OTOLITHIUS* *TOEROE* Cuv. & Val. = *CHEILODIP-*
TERUS *ACOUFA* Lac. A synonym of *CYNOSCION* Gill.
Isopisthus Gill, 18; orthotype *ANCYLODON* *PARVIFINNIS* Cuv. & Val.
772. GILL (1862). *Synopsis of the Family of Cirrhitoids*. Proc. Acad. Nat. Sci.
Phila.
THEODORE GILL.
Amblycirrhitus Gill, 105; orthotype *CIRRHITES* *FASCIATUS* Cuv. & Val.
Cirrhitopsis Gill, 109; orthotype *C. AUREUS* T. & S. A synonym of *CIRRHITICH-*
THYS Blkr.
Dactylosargus Gill, 110; orthotype *APLODACTYLUS* *ARCIDENS* Rich.
Crinodus Gill, 112; orthotype *HAPLODACTYLUS* *LOPHODON* Gthr.
Acantholatriss Gill, 114; orthotype *CHATODON* *MONODACTYLUS* Carmichael
Chirodactylus Gill, 114; orthotype *CHEILODACTYLUS* *ANTONII* Cuv. & Val.
Dactylopagrus Gill, 114; orthotype *CHEILODACTYLUS* *CARPONEMUS* Cuv. & Val.
Called *DACTYLOSARGUS* on page 117.

Latridopsis Gill, 115; orthotype *ANTHIAS CILIARIS* Bloch.

Dactylosparus Gill, 117; orthotype *CHEILONEMUS CARPONEMUS* Cuv. & Val. A synonym of *DACTYLOPAGRUS* Gill; the two names left through defective proof-reading.

Goniistius Gill, 120; orthotype *CHEIL. ZONATUS* Cuv. & Val.

773. GILL (1862). *On the Limits and Arrangements of the Family of Scombroidei*. Proc. Acad. Nat. Sci. Phila.

THEODORE GILL.

Grammatorcynus Gill, 125; orthotype *THYNNUS BILINEATUS* Rüppell. Misspelled *GRAMMATORYCNUS*.

Gymnosarda Gill, 125; orthotype *THYNNUS UNICOLOR* Rüppell.

Orcynopsis Gill, 125; orthotype *SCOMBER UNICOLOR* Geoffroy St. Hillaire. (Misprinted *ORYCNOPSIS*.)

Lepidocybium Gill, 125; orthotype *CYBIUM FLAVOBRUNNEUM* Smith. A synonym of *SCOMBEROMORUS* Lac.

Acanthocybium Gill, 125; orthotype *CYBIUM SARA* Bennett.

Thyrstitops Gill, 125; orthotype *THYRSITES LEPIDOPOIDES* Cuv. & Val.

Eupleurogrammus Gill, 126; orthotype *TRICHIURUS MUTICUS* Gray.

Zenopsis Gill, 126; orthotype *ZEUS NEBULOSUS* T. & S.

Cyttopsis Gill, 126; orthotype *ZEUS ROSEUS* Lowe.

Chondroplites Gill, 126; orthotype *STROMATEUS ATOUS* Cuv. & Val.

Poronotus Gill, 126; orthotype *STROMATEUS TRIACANTHUS* Peck.

Hoplocoryphus Gill, 127; orthotype *SCHEDOPHILUS MACULATUS* Gthr.

Clara Gill, 127; orthotype *EQUULA LONGIMANUS* Cantor. A synonym of *PENTAPRIION* Blkr.

Psenopsis Gill, 127; orthotype *TRACHINOTUS ANOMALUS* T. & S.

774. GILL (1862). *Descriptions of New Species of Alepisauroidæ*. Proc. Acad. Nat. Sci. Phila.

THEODORE GILL.

Caulopus Gill, 128; orthotype *ALEPIDOSAURUS BOREALIS* Gill.

775. GILL (1862). *On the West African Genus Hemichromis*, etc. Proc. Acad. Nat. Sci. Phila.

THEODORE GILL.

Epiplatys Gill, 136; orthotype *E. SEXFASCIATUS* Gill.

Marcusenius Gill, 139; orthotype *MORMYRUS CYPRINOIDES* L. Name later, page 444, by some confusion transferred to *MORMYRUS ANGUILLOIDES* L.

Mormyroides Gill, 139; orthotype *MORMYRUS HASSELQUISTI* Geoffroy.

Hyperopisus Gill, 139; orthotype *MORMYRUS DORSALIS* Geoffroy.

776. GILL (1862). *Catalogue of the Fishes of Lower California . . . Collected by Mr. J. Xantus*. Proc. Acad. Nat. Sci. Phila.

THEODORE GILL.

Lepidaplois Gill, 140; orthotype *COSSYPHUS AXILLARIS* Cuv. & Val.

Chærojulis Gill, 142; orthotype *JULIS SEMICINCTUS* Ayres. A substitute for *HALICHERES* Rüppell, preoccupied by *HALICHERUS*; a synonym of *HEMIULIS* Sw., as restricted by Bonaparte.

Iniistius Gill, 143; orthotype *XYRICHTHYS PAVO* Cuv. & Val.

Malacocentrus Gill, 143; orthotype *XYRICHTHYS TENIURUS* Cuv. & Val.

Oxycheilinus Gill, 143; orthotype *CHEILINUS ARENATUS* Cuv. & Val.

Euschistodus Gill, 145; orthotype *E. DECLIVIFRONS* Gill. A synonym of *GLYPHISODON* Lac.

777. GILL (1862). *On a New Genus Allied to Aulorhynchus and on the Affinities of the Family Aulorhynchoidae to Which It Belongs.* Proc. Acad. Nat. Sci. Phila., XIV.

Aulichthys (Brevoort) Gill, 234; orthotype *A. JAPONICUS* Brevoort.

Acentrachme Gill, 234; orthotype *AMPHISILE SCUTATA* Cuv. = *CENTRISCUS SCUTATUS* L. A synonym of *CENTRISCUS* L. *AMPHISILE* (Klein) Gill is the genus *ÆOLISCUS* Jordan & Starks. *AMPHISILE* Cuv. (*SCUTATUS*) is *CENTRISCUS*.

Orthichthys Gill, 234; orthotype *CENTRISCUS VELITARIS* Pallas.

Centriscops Gill, 234; orthotype *CENTRISCUS HUMEROSUS* Rich.

778. GILL (1862). *Remarks on the Relations of the Genera and Other Groups of Cuban Fishes.* Proc. Acad. Nat. Sci. Phila.

THEODORE GILL.

Haliperca Gill, 236; logotype *SERRANUS BIVITTATUS* Cuv. & Val.

Mentiperca Gill, 236; orthotype *SERRANUS LUCIOPERCANUS* Poey.

Hypoplectrus Gill, 236; orthotype *PLECTROPOMA PUELLA* Cuv. & Val.

Hypoplectrodes Gill, 236 (no definition); orthotype *PLECTROPOMA NIGRORUBRUM* Cuv. & Val. Same as *GILBERTIA* Jordan & Eigenmann, 1890.

Acanthistius Gill, 236; orthotype *PLECTROPOMA SERRATUM* Cuv. & Val.

Ocyurus Gill, 236; orthotype *SPARUS CHRYSURUS* Bloch.

Proamblys Gill, 236; orthotype *DIACOPE NIGRA* Cuv. = *DIACOPE MACOLOR* Cuv. & Val. A synonym of *MACOLOR* Blkr. (1860).

Gonioplectrus Gill, 236 orthotype *PLECTROPOMA HISPANUM* Cuv. & Val.

Plectroplites Gill, 236; orthotype *DATNIA AMBIGUA* Rich.

Rhomboplites Gill, 236; orthotype *CENTROPISTES AURORUBENS* Cuv. & Val.

Brachyrhinus Gill, 236; orthotype *SERRANUS CREOLUS* Cuv. & Val. = *S. FURCIFER* Cuv. & Val. Name preoccupied; replaced by *PARANTHIAS* Guich. (1868).

Platyinius Gill, 236; orthotype *MESOPRION VORAX* Poey.

Gonioperca Gill, 236; orthotype *SERRANUS ALBOMACULATUS* Jenyns. A synonym of *PARALABRAX* Grd.

Labroperca Gill, 236; orthotype *SERRANUS LABRIFORMIS* Jenyns. A synonym of *EPINEPHELUS* Bloch.

Mycteroperca Gill, 236; orthotype *SERRANUS OLFA* Jenyns.

Hypoplites Gill, 236; orthotype *MESOPRION RETROSPINIS* Cuv. & Val.

Evoplites Gill, 236; orthotype *MESOPRION POMACANTHUS* Blkr.

Schistorus Gill, 237; orthotype *SERRANUS MYSTACINUS* Poey.

Lioperca Gill, 237; orthotype *SERRANUS INERMIS* Cuv. & Val. A synonym of *DERMATELEPIS* Gill.

Rhinoberyx Gill, 237; orthotype *RHYNCHICHTHYS BRACHYRHYNCHUS* Blkr. A larval form allied to *HOLOCENTRUS*.

Plectrypops Gill, 237; orthotype *HOLOCENTRUM RETROSPINIS* Guich.

Centroberyx Gill, 238; orthotype *BERYX LINEATUS* Cuv. & Val.

Synistius Gill, 238; orthotype *GERRES LONGIROSTRIS* Ruppell.

Nandopsis Gill, 238; orthotype *CHROMIS TETRACANTHUS* Poey.

Odontoscion Gill, 238; orthotype *JOHNUS DENTEX* Cuv. & Val.

Orycnus Gill, 238; orthotype *SCOMBER THYNNUS* L. A substitute for *ORCYNUS* Cuv., preoccupied, of which name it was originally a misprint (Cooper); a synonym of *THYNNUS* South.

- Sarothrodus** Gill, 238; orthotype *CHÆTODON STRIATUS* L. Substitute for *CHÆTODON* L., the name transferred to *POMACANTHUS*, the first species named by Artedi being a *POMACANTHUS*.
- Prognathodes** Gill, 238; orthotype *CHELMO PELTA* Gthr. (not *PROGNATHODUS* Owen).
- Carangops** Gill, 238; orthotype *CARANX HETEROPYGUS* Poey. A synonym of *HEMICARANX* Blkr. of the same date. Both are apparently synonyms of *ALEPES* Sw., 1839.
- Trachurops** Gill, 238; orthotype *SCOMBER FLUMIERI* Bloch = *SCOMBER CRUMENOPHTHALMUS* Bloch.
- Remora** Gill, 239; orthotype *ECHENEIS REMORA* L. This adjustment restricts *ECHENEIS* L. to *E. NAUCRATES* L. It is earlier than any other and must stand.
- Remifegia** Gill, 239; orthotype *ECHENEIS SCUTATA* Gthr.
- Phtheirichthys** Gill, 239; orthotype *ECHENEIS LINEATA* Menzies.
- Caulolatilus** Gill, 240; orthotype *LATILUS CHRYSOPS* Cuv. & Val.
- Lophogobius** Gill, 240; orthotype *GOBIOUS CRISTAGALLI* Cuv. & Val.
- Dormitator** Gill, 240; logotype *D. GUNDLACHI* Poey.
- Gnathypops** Gill, 241; logotype *OPISTHOGNATHUS MAXILLOSUS* Poey.
- Lonchopisthus** Gill, 241; orthotype *OPISTHOGNATHUS MICROGNATHUS* Poey.

779. GILL (1862). *Catalogue of the Fishes of Lower California . . . Collected by Mr. J. Xantus*. Part II. Proc. Acad. Nat. Sci. Phila.

THEODORE GILL.

- Pomacanthodes** Gill, 244; orthotype *P. ZONIPECTUS* Gill.
- Incisidens** Gill, 244; orthotype *CRENIDENS SIMPLEX* Rich.
- Opisthistius** Gill, 245; orthotype *SCIENA TAHMEL* Forskål.
- Orthostæchus** Gill, 255; orthotype *O. MACULICAUDA* Gill.
- Microlepidotus** Gill, 255; orthotype *M. INORNATUS* Gill.
- Genytremus** Gill, 256; orthotype *PRISTIPOMA BILINEATUM* Cuv. & Val. A section under *ANISOTREMUS* Gill.
- Genyatremus** Gill, 256; orthotype *DIAGRAMMA CAVIFRONS* Cuv. & Val.
- Pristocantharus** Gill, 256; orthotype *PRISTIPOMA CANTHARINUM* Jenyns. A synonym of *ORTHOPRISTIS* Grd.
- Nematistius** Gill, 258; orthotype *N. PECTORALIS* Gill.
- Eustomatodus** Gill, 261; logotype *DECAPTERUS KURROIDES* Blkr. A synonym of *DECAPTERUS* Blkr.
- Gymneipignathus** Gill, 261; orthotype *DECAPTERUS MACROSOMA* Blkr.
- Evepigmynus** Gill, 261; orthotype *DECAPTERUS HYPODUS* Gill.

780. GILL (1862). *Notes on a Collection of the Fishes of California. . . . by Samuel Hubbard*. Proc. Acad. Nat. Sci. Phila.

THEODORE GILL.

- Hypocritichthys** Gill, 275; orthotype *HYPERPROSPON ANALIS* Alex. Agassiz
- Brachyistius** Gill, 275; orthotype *B. FRENATUS* Gill.
- Oxylebius** Gill, 277; orthotype *O. PICTUS* Gill.
- Sebastopsis** Gill, 278; orthotype *SEBASTES POLYLEPIS* Cuv. & Val. A synonym of *SCORPÆNODES* Blkr.
- Eucyclogobius** Gill, 279; orthotype *GOBIOUS NEWBERRYI* Grd.
- Melanotænia** Gill, 280; orthotype *ATHERINA NIGRANS* Rich.
- Melanogrammus** Gill, 280; orthotype *GADUS ÆGLIFINUS* L.
- Brachygadus** Gill, 280; orthotype *GADUS MINUTUS* Yarrell. A synonym of *TRISOPTERUS* Raf., 1814.

781. GILL (1862). *Synopsis of the Species of Lophobranchiate Fishes of Western North America*. Proc. Acad. Nat. Sci. Phila.

THEODORE GILL.

Dermatostethus Gill, 283; orthotype *D. PUNCTIPINNIS* Gill.

782. GILL (1862). *Note on Some Genera of Fishes of Western North America*. Proc. Acad. Nat. Sci. Phila.

THEODORE GILL.

Sebastichthys Gill, 329; orthotype *SEBASTES NIGROCINCTUS* Ayres.

Paratractus Gill, 330; orthotype *CARANX PISQUETOS* Cuv. & Val. = *SCOMBER CRYOSOS* Mitchill. A section under *CARANX*.

Caularchus Gill, 330; orthotype *LEPADOGASTER RETICULATUS* Grd. (*GOBIESOX MEANDRICUS* Grd.).

Eumicrotremus Gill, 330; orthotype *CYCLOPTERUS ORBIS* Müller.

Hypsifario Gill, 330; orthotype *SALMO KENNERLYI* Suckley, a landlocked form of *ONCORHYNCHUS NERKA* (Walbaum). The genus may be valid, as distinguished by the long and numerous gill-rakers.

Lepidopsetta Gill, 330; orthotype *PSETTICHTHYS UMBROSUS* Grd.

Hypsopsetta Gill, 330; orthotype *PLEURONICHTHYS GUTTULATUS* Grd.

Orthopsetta Gill, 330; orthotype *PSETTICHTHYS SORDIDUS* Grd.

Uropsetta Gill, 330; orthotype *HIPPOGLOSSUS CALIFORNICUS* Ayres. A synonym of *PARALICHTHYS* Grd.

Hydrolagus Gill, 331; orthotype *CHIMÆRA COLLIEI* Lay & Bennett.

Gyroleurodus Gill, 331; orthotype *CESTRACION FRANCISCI* Grd.

Holorhinus Gill, 331; orthotype *RHINOPTERA VESPERTILIO* Grd. = *MYLIOBATIS CALIFORNICUS* Gill. A section under *MYLIOBATIS* Dum.

Entosphenus Gill, 331; orthotype *PETROMYZON TRIBENTATUS* Rich.

783. GILL (1862). *Synopsis of the Carangoids of the Eastern Coast of North America*. Proc. Acad. Nat. Sci. Phila.

THEODORE GILL.

Naucraptopsis Gill, 441; orthotype *SERIOLA GIGAS* Gthr.

Halatractus Gill, 442; logotype *SERIOLA DUMERILI* Cuv. & Val. A substitute for *SERIOLA*, used in botany; a reason for change no longer recognized.

784. GILL (1862). *Description of a New Generic Type of Mormyroids, etc.* Proc. Acad. Nat. Sci. Phila.

THEODORE GILL.

Isichthys Gill, 443; orthotype *I. HENRYI* Gill.

Gnathonemus Gill, 444; orthotype *MORMYRUS PETERSI* Gthr.

785. GILL (1862). *On the Classification of the Families and Genera of the Squali of California*. Proc. Acad. Nat. Sci. Phila.

THEODORE GILL.

Rhinotriacis Gill, 486; orthotype *R. HENLEI* Gill.

Tropidodus Gill, 489; orthotype *CESTRACION PANTHERINUS* Val.

Entoxychirus Gill, 496; orthotype *SQUALUS UVATO* Raf. A synonym of *CENTROPHORUS* M. & H.

786. GILL (1862). *On the Limits and Affinity of the Family of Leptoscopoids*. Proc. Acad. Nat. Sci. Phila.

THEODORE GILL.

Dactylagnus Gill, 504; orthotype *D. mundus* Gill.

787. GILL (1862). *Synopsis of the Genera of the Subfamily of Pimelodinae*. Proc. Boston Soc. Nat. Hist. for 1861 (1862), VIII.

THEODORE GILL.

Branchiosteus Gill, 52; orthotype *OLYRA LATICEPS* McCl.

788. GÜNTHER (1862). *Catalogue of the Fishes in the British Museum*. IV.

ALBERT GÜNTHER.

Lepidozygus Günther, IV, 15; orthotype *POMACENTRUS TAPEINOSOMA* Blkr.

Microspathodon Günther, IV, 35; orthotype *GLYPHIDODON CHRYSURUS* Cuv. & Val.
Apparently a synonym of *STEGASTES* Jenyns, 1842.

Parma Günther, IV, 57; logotype *P. MICROLEPIS* Gthr.

Tautogolabrus Günther, IV, 89; orthotype *CTENOLABRUS BURGALL* Gthr. = *LABRUS ADSPERSUS* Walbaum.

Trochocopus Günther, IV, 100; logotype *T. OPERCULARIS* Gthr.

Decodon Günther, IV, 101; orthotype *COSSYPHUS PUELLARIS* Poey.

Doratonotus Günther, IV, 124; orthotype *D. MEGALEPIS* Gthr.

Cymolutes Günther, IV, 207; logotype *JULIS PRÆTEXTATUS* Q. & G.

Coriododax Günther, IV, 243; *SPARUS PULLUS* Forster.

Pseudetroplus (Bleeker) Günther, IV, 266; orthotype *CHÆTODON SURATENSIS* Bloch.

Chromis (Cuvier) Günther, IV, 267; logotype *CHROMIS NILOTICUS* Cuv., not as restricted to the original tautotype *SPARUS CHROMIS* L. This understanding is that of most modern authors following Gill and Bleeker. *C. CHROMIS* and *C. NILOTICUS* are both included in the *CHROMIS* of Cuvier. *CHROMIS* Gthr. is a synonym of *TILAPIA* Smith.

Theraps Günther, IV, 284; orthotype *T. IRREGULARIS* Gthr.

Mesonauta Günther, IV, 300; orthotype *HEROS INSIGNIS* Heckel.

Petenia Günther, IV, 301; orthotype *P. SPLENDIDA* Gthr.

Hygrogonus Günther, IV, 303; orthotype *LOBOTES OCELLATUS* Ag. A synonym of *ASTRONOTUS* Sw.

Mesops Günther, IV, 311; logotype *GEOPHAGUS CUPIDO* Heckel. Name preoccupied, replaced by *BIOTODOMA* Eigenmann & Kennedy, 1903.

Satanoperca Günther, IV, 312; logotype *GEOPHAGUS ACUTICEPS* Heckel.

Uronectes Günther, IV, 325; orthotype *OPHIDIUM PARRII* Ross. Name preoccupied in crustacea, replaced by *LYCOCARA* Gill, 1884.

Boreogadus Günther, IV, 336; logotype *GADUS FABRICII* Rich.

Halargyreus Günther, IV, 342; orthotype *H. JOHNSONI* Gthr.

Pseudophycis Günther, IV, 350; orthotype *LOTA BREVIUSCULA* Rich.

Læmonema Günther, IV, 356; orthotype *PHYCIS YARRELLI* Lowe.

Haloporphyrus Günther, 358; orthotype *GADUS LEPIDION* Risso. Substitute for *LEPIDION* Sw. regarded as preoccupied by *LEPIDIA*, 1817.

Xiphogadus Günther IV, 374; orthotype *XIPHASIA SETIFER* Sw. A needless substitute for *XIPHASIA* Sw. (1839).

Hyperoplus Günther, IV, 384; orthotype *AMMODYTES LANCEOLATUS* Le Sauvage.

Bleekeria Günther, IV, 387; orthotype *B. KALLOLEPIS* Gthr.

Congrogadus Günther, IV, 388; orthotype *MACHÆRIUM SUBDUCENS*, Rich. A substitute for *MACHÆRIUM*, preoccupied.

Malacocephalus Günther, IV, 396; orthotype *M. LÆVIS* Gthr.

Tephritis Günther, IV, 406; orthotype *PLEURONECTES SINENSIS* Lac. Name preoccupied, replaced by *TEPHRINECTES* Gthr., and later by *VELIFRACTA* Jordan.

Lepidorhombus Gunther, IV, 407; orthotype **PLEURONECTES MEGASTOMA** Donovan.
Phrynorhombus Gunther, IV, 414; orthotype **RHOMBUS UNIMACULATUS** Risso.
Brachypleura Gunther, IV, 419; orthotype **B. NOVÆZEELANDIÆ** Gthr.
Engyprosopon Günther, IV, 431; orthotype **RHOMBUS MOKII** Blkr.
Psammodiscus Günther, IV, 457; orthotype **P. OCELLATUS** Gthr.
Rhombosolea Günther, IV, 458; logotype **R. MONOPUS** Gthr.
Ammotretis Günther, IV, 458; orthotype **A. ROSTRATUS** Gthr.
Peltorhamphus Günther, IV, 460; orthotype **P. NOVÆZEELANDIÆ** Gthr.
Buglossus Günther, IV, 462; orthotype **PLEURONECTES VARIEGATUS** Donovan. A synonym of **MICROCHIRUS** Bon.

Microbuglossus Gunther, IV, 462; orthotype **SOLEA HUMILIS** Cantor.
Pegusa Günther, IV, 467; logotype **SOLEA AURANTIACA** Gthr.
Pardachirus Günther, IV, 478; logotype **ACHIRUS MARMORATUS** Lac.
Liachirus Günther, IV, 479; orthotype **L. NITIDUS** Gthr.
Anisochirus Günther, IV, 480; orthotype **SYNAPTURA PANOIDES** Blkr.
Soleotalpa Günther, IV, 489; orthotype **S. UNICOLOR** Gthr. A synonym of **APIONICHTHYS** Kaup.
Ammopleurops Günther, IV, 490; orthotype **PLAGUSIA LACTEA** Bon. A synonym of **SYMPIURUS** Raf.

789 GÜNTHER (1862). *Descriptions of New Species of Reptiles and Fishes*, etc. Proc. Zool. Soc. London.

ALBERT GÜNTHER.

Tyntlastes Günther, 194; orthotype, **AMBLYOPUS SAGITTA** Gthr.

790. GÜNTHER (1862). *Note on Pleuronectes sinensis* Lac. Ann. Mag. Nat. Hist. X.
 ALBERT GÜNTHER.

Tephrinectes Günther, 475; orthotype **PLEURONECTES SINENSIS** Lac. Substitute for **TEPHIRITIS** Gthr., preoccupied; replaces **VELIFRACTA** Jordan, a later substitute name.

791. JOHNSON (1862). *Notes on Rare and Little Known Fishes Taken at Madeira*. Ann. Mag. Nat. Hist.
 JAMES YATE JOHNSON.

Pseudomuraena Johnson, 167; orthotype **P. MADERENSIS** Johnson. A synonym of **PRIDONOPHIS** Kaup.

Synaphobranchus Johnson, 169; orthotype **S. KAUPI** Johnson. **MURÆNA PINNATA** Gronow.

Nesiarchus Johnson, 173; orthotype **N. NASUTUS** Johnson.

Setarches Johnson, 177; orthotype **S. GÜNTHERI** Johnson.

792. JONES (1862). (*Estheria*.)

THOMAS RYMER JONES (1819-1911).

Estheria Jones, 112; orthotype **E. MIDDENDORFFI** Jones (fossil).

793. KNER (1862). *Kleinere Beiträge zur Kenntniss der fossilen Fische Oesterreichs*. Sitzb. Akad. Wiss. Wien, XLV.
 RUDOLF KNER.

Palimphemus Kner, XLV, 490; orthotype **P. ANCEPS** (fossil)

794. MORRIS & ROBERTS (1862). *On the Carboniferous Limestone of Orleton and Farlow Clee Hills, Shropshire*, etc. Quart. Journ. Geol., XVIII.
 JOHN MORRIS; GEORGE E. ROBERTS.

- Characodus** (Agassiz) Morris & Roberts, XVIII, 99; orthotype *C. ANGULATUS* Ag. (fossil); name only, defined by Davis, 1883. Regarded by Woodward as a synonym of *COPODUS*; not *CHARACODUS* Owen, 1867, earlier in definition.
- Ctenopetalus** (Agassiz MS.) Morris & Roberts, XVIII, 100; orthotype *CTENOPTYCHIUS SERRATUS* Ag. (fossil); name only, defined by Davis, 1881. Regarded as a synonym of *CTENOPTYCHIUS*.
- Harpacodus** (Agassiz) Morris & Roberts, XVIII, 100; orthotype *CTENOPTYCHIUS DENTATUS* Ag. (fossil); name only, defined by Davis (1881). Regarded as a synonym of *CTENOPTYCHIUS*.
- Copodus** (Agassiz) Morris & Roberts, XVIII, 100; logotype *PSAMMODUS CORNUTUS* Ag. (fossil); name only, defined by Davis, 1883.
- Deltodus** (Agassiz) Morris & Roberts, XVIII, 100; orthotype *PÆCILODUS SUBLÆVIS* (Ag.) McCoy (fossil).
- Deltoptychius** (Agassiz) Morris & Roberts XVIII, 100; orthotype *COCHLIODUS ACUTUS* (Ag.) McCoy (fossil).
- Xystrodus** (Agassiz) Morris & Roberts, XVIII, 101; orthotype *COCHLIODUS STRIATUS* Ag. (fossil). Name preoccupied (Plieninger, 1860), replaced by *PLATYXYSTRODUS* Hay (1899).
- Lobodus** (Agassiz) Morris & Roberts, XVIII, 101; logotype *L. PROTOTYPUS* Ag. (fossil); name only, defined by Davis, 1883. Regarded as a synonym of *COPODUS*.
- Mesogomphus** (Agassiz) Morris & Roberts, XVIII, 101; orthotype *M. LINGUA* Ag. (fossil); name only, defined by Davis, 1883. Regarded as a synonym of *COPODUS*.
- Pleurogomphus** (Agassiz) Morris & Roberts, XVIII, 101; orthotype *P. AURICULATUS* Ag. (fossil); name only, defined by Davis, 1883. Regarded as a synonym of *COPODUS*.
- Mylax** (Agassiz) Morris & Roberts, XVIII, 101; orthotype *M. BATOIDES* Ag. (fossil); name only, defined by Davis, 1883. Regarded as a synonym of *COPODUS*.
- Tomodus** (Agassiz) Morris & Roberts, XVIII, 101; orthotype *T. CONVEXUS* (Ag.) (fossil); name only, defined by Davis, 1883 (not *TOMODUS* Trautschold, 1879), later called *OXYTOMODUS* Trautschold, 1880.
- Streblodus** (Agassiz) Morris & Roberts, XVIII, 101; orthotype *COCHLIODUS OBLONGUS* (Agassiz) Portlock (fossil).
- Psephodus** (Agassiz) Morris & Roberts, XVIII, 101; orthotype *COCHLIODUS MAGNUS* Portlock (fossil).
- Petalorhynchus** Agassiz) Morris & Roberts, XVIII, 101; orthotype *PETALODUS PSITTACINUS* (Ag.) McCoy (fossil); name only, defined by Davis, 1881.

795. VALENCIENNES (1862). *Description de quelques espèces de poisson . . . envoyés de Bourbon par M. Morel*. Comptes Rendus, LIV.

ACHILLE VALENCIENNES.

This little paper of Valenciennes has been overlooked by writers. In it are described two species of *IREX* (*ELAGATIS*), *I. INDICUS* from Bourbon Island and *I. AMERICANUS* from St. Thomas, the former with D. VI-I, 24-2, the latter D. VI-I, 22-2. Günther counts D. VI-I, 25-1 in *ELAGATIS BIPINNULATUS* from Amboyna. Poey counts D. VI-I, 26-2 in *ELAGATIS PINNULATUS* from Havana. In a specimen from Long Island, Jordan and Evermann count D. VI-I, 27-2, regarding all as belonging to one pelagic species.

Irex Valenciennes, 1204; orthotype *IREX INDICUS* Val. A synonym of *ELAGATIS* Bennett (1834), same as *SERIOICHTHYS* Blkr. (1854) and *DECAPTUS* Poey (1860).

796. WAGNER (1862). *Monographie der fossilen Fische aus den Lithographischen Schiefern Bayerns*. Abh. Bayer. Akad. Wiss., IX.

ANDREAS WAGNER.

Mesturus Wagner, IX, 338; orthotype *M. VERRUCOSUS* Wagner (fossil).

797. WINKLER (1862). *Description de quelques nouvelles espèces de poissons fossiles du calcaires lithographique de Solenhofen d'Oeningen*. Nat. Verh. Holl. Maatsch. Wetensch. Haarlem, XVI.

TIBERIUS CORNELIUS WINKLER (1822-1898).

Brachyichthys Winkler, XIV, 47; orthotype *B. TYPICUS* Winkler (fossil). Should replace *EULEPIPOTUS* (1868) and *HETEROLEPIDOTUS* Egert. (1872).

1863

798. BLEEKER (1863). *Mémoire sur les poissons de la côte de Guinée*. Nat. Verh. Holl. Maatsch. Wetsch., 2 Verz. Deel XVIII, 1863, 1-136.

PIETER BLEEKER.

Glaucus (Klein) Bleeker, 14; orthotype (after Klein) *SCOMBER GLAUCUS* L. A synonym of *CÆSIOMORUS* Lac.

Melanogenes Bleeker, 36; orthotype *M. MACROCEPHALUS* Blkr.

Pseudotolithus Bleeker, 59; orthotype *P. TYPUS* Blkr.

799. BLEEKER (1863). *Description de quelques espèces de poissons . . . de Chine . . . Musée de Leide, par M. G. Schlegel*. Nat. Tijdschr. Dierk. Indie, I.

PIETER BLEEKER.

Hemisciæna Bleeker, 141; orthotype *COLLICHTHYS LUCIDUS* Günther. A synonym of *COLLICHTHYS* Gthr.

Pseudosciæna Bleeker, 142; orthotype *CORYINA AMBLYCEPS* Blkr., species named. Same as *ARGYROSOMUS* Pylaie, 1835. A synonym of *SCIÆNA* L., as restricted by Cuvier.

800 BLEEKER (1863). *Systema Cyprinoidcorum revisum*. Neder. Tijdschr. Dierk., I., 1863, 179-186.

PIETER BLEEKER.

Aplocheilichthys Bleeker, 116; orthotype *A. TYPUS* Blkr. A synonym of *APLOCHEILUS* McCl. The numerous genera here defined are also contained in a second paper written at about the same time.

Gobionichthys Bleeker, 156; orthotype *GOBIO MICROCEPHALUS* Blkr.

Crossocheilichthys Bleeker, 192; orthotype *LOBOCHEILOS COBITIS* Blkr.

Isocephalus (Heckel) Bleeker, 194; orthotype *CYPRINUS BANGON* Ham. Same as *BANGANA* Ham.

Rohitodes Bleeker, 195; orthotype *LABEO CEPHALUS* Cuv. & Val.

Acra Bleeker, 197; tautotype *CYPRINUS ACRA* Ham, orthotype as indicated by Bleeker, *CYPRINUS SYRIACUS*.

Leptobarbus Bleeker, 202; orthotype *L. HOEVENI* Blkr.

Cirrhinichthys Bleeker, 202; orthotype *C. DUSSUMIERI*.

Opsariichthys Bleeker, 203; orthotype *LEUCISCUS UNCIROSTRIS* T. & S.; also under No. 805, p. 263.

Paraphoxinus Bleeker, 209; orthotype *PHOXINELLUS ALEPIDOTUS* Heckel. A synonym of *PHOXINELLUS* Heckel.

Trachybrama (Heckel) Bleeker, I, 210; orthotype *ACANTHOBAMA MARMID* Heckel. A synonym of *ACANTHOBAMA* Heckel.

Paracheilognathus Bleeker, 213; orthotype *CAPOËTA RHOMBEA* T. & S.

Pseudoperilampus Bleeker, 214; orthotype *P. TYPUS* Blkr.

801. BLEEKER (1863). *Onzième notice sur la faune ichthyologique de l'île d'Obi*. Neder. Tijdschr. Dierk., I, 1863, 228-238.

PIETER BLEEKER.

Paramia Bleeker, 233; orthotype *CHEILODIPTERUS LINEATUS* Lac. A substitute for *CHEILODIPTERUS* (Lac.) Cuv., which name he transfers to the genus called *TEMNODON* Cuv. (*POMATOMUS* Lac.) because the first species named belongs to *POMATOMUS*. A synonym of *CHEILODIPTERUS* as now restricted.

Rhombotides (Klein) Bleeker, 235; orthotype *CHÆTODON TRIOSTEGUS* L. A synonym of *HEPATUS* Gronow or *TEUTHIS* L., as restricted.

Parapercis Bleeker, 236; orthotype *SCIENA CYLINDRICA* Bloch.

Parupeneus Bleeker, 342; orthotype *MULLUS BIFASCIATUS* Lac. A synonym of *UPENEUS* Cuv., as first restricted by Bleeker.

802. BLEEKER (1863). *Septième mémoire sur la faune ichthyologique de l'île Timor*. Neder. Tijdschr. Dierk., I 1863, 262-276.

PIETER BLEEKER.

Paradules Bleeker, 267; orthotype *DULES RUPESTRIS* Cuv. & Val. A synonym of *KUHLIA* Gill.

Pseudechidna Bleeker, 272; orthotype *MURÆNA BRUMMERI* Blkr. (*STROPHIDON* Gthr., not of McClelland).

803. BLEEKER (1863). *Sur les genres de la famille des Cobitioïdes*. Versl. Akad. Amsterdam, XV, 1863, 32-44.

PIETER BLEEKER.

Paracobitis Bleeker, 37; orthotype *COBITIS MALAPTERURA* Cuv. & Val.

Lepidocephalichthys Bleeker, 42; orthotype *COBITIS HASSELTII* Cuv. & Val.

803A. BLEEKER (1863). *Systema silurorum revisum*. Neder. Tijdschr. Dierk. I. PIETER BLEEKER.

Pseudopimelodus Bleeker, I, 101; orthotype *PIMELODUS RANINUS* Cuv. & Val.

804. BLEEKER (1863). *Deuxième notice sur la faune ichthyologique de l'île de Flores*. Neder. Tijdschr. Dierk., I, 1863, 248-252.

PIETER BLEEKER.

Eurypegasis Bleeker, 250; orthotype *PEGASUS DRACONIS* L. = *P. VOLITANS* L. A synonym of *PEGASUS* L.

805. BLEEKER (1863). *Notice sur les noms de quelques genres de la famille des Cyprinoides*. Versl. Akad. Amsterdam, XV, 1863, 261-264.

PIETER BLEEKER.

Carpionichthys Bleeker, 262; orthotype *CYPRINUS CARPIO* L. A synonym of *CYPRINUS* L.

Paraschizothorax Bleeker, 262; orthotype *SCHIZOTHORAX HUGELI* Heckel.

806. COOPER (1863). *On New Genera and Species of California Fishes*. 4 articles. Proc. Cal. Acad. Sci.

JAMES GRAHAM COOPER (1830-).

Dekaya Cooper, 72; orthotype *D. ANOMALA* Cooper. A synonym of *CAULOLATILUS* Gill; the name *DEKAYIA* already used.

Ayresia Cooper, 73; orthotype *A. PUNCTIPINNIS* Cooper.

Orcynus Cooper, 77; orthotype *SCOMBER THYNNUS* L. Originally a slip of the pen for *ORCYNUS*, offered as a substitute for *ORCYNUS*, twice preoccupied. A synonym of *THYNNUS*.

Gibbonsia Cooper, III, 108; orthotype *MYXODES ELEGANS* Cooper.

Gillichthys Cooper, 109; orthotype *G. MIRABILIS* Cooper.

807. DOCMET (1863). *Description d'un nouveau genre de poissons de la Méditerranée*. Rev. Mag. Zool., XV.

P. NAPOLEON DOUMET-ADANSON.

Trachelocirrus Doumet, XV, 212; orthotype *T. MEDITERRANEUS* Doumet. A synonym of *PSENES* Cuv. & Val. Doumet correctly regards this genus as identical with *NAVARCHUS* Filippi & Verany. The names *CUBICEPS* Lowe and *ATIMOSTOMA* Smith have been also bestowed upon these little pelagic fishes as well as *PSENES*, the name they should bear.

808. GILL (1863). (*Platygobio*.) Trans. Am. Philos. Soc., V.

THEODORE GILL.

Platygobio Gill, V, 12, 178; orthotype *POGONICHTHYS COMMUNIS* Grd. = *CYPRINUS GRACILIS* Rich.

809. GILL (1863). (*Sturgeons*.) Trans. Am. Philos. Soc., V.

THEODORE GILL.

Scaphirhynchops Gill, V, 12, 178; orthotype *ACIPENSER PLATORHYNCHUS* Raf. Substitute for *SCAPHIRHYNCHUS* regarded as preoccupied.

810. GILL (1863). *On a New Family Type (Chænopsis) of Fishes Related to the Blennioids*. Ann. Lyc. Nat. Hist. N. Y., VIII.

THEODORE GILL.

Chænopsis Gill, 141; orthotype *C. OCELLATUS* Poey.

811. GILL (1863). *On a Remarkable New Type of Fishes Allied to Nemophis*. Ann. Lyc. Nat. Hist. N. Y., VIII.

THEODORE GILL.

Plagiotremus Gill, 138; orthotype *P. SPILISTIUS* Gill.

812. GILL (1863). *Catalogue of the North American Scærnoid Fishes*. Proc. Nat. Acad. Sci. Phila.

THEODORE GILL.

Sciænops Gill, 30; orthotype *PERCA OCELLATA* L.

813. GILL (1863). *Catalogue of the Fishes of Lower California* . . . Collected by Mr. J. Xantus, Proc. Acad. Nat. Sci. Phila., XV.

THEODORE GILL.

Pronotogrammus Gill, 80 orthotype *P. MULTIFASCIATUS* Gill.

Lepidamia Gill, 81; orthotype *APOGON KALOSOMA* Blkr.

Archamia Gill, 81; orthotype *APOGON BLEEKERI* Gthr.

Glossamia Gill, 82; orthotype *APOGON APRION* Rich.

Xenichthys Gill, 82; orthotype *X. xanti* Gill.

Moronopsis Gill, 82; orthotype *DULES MARGINATUS* Cuv. & Val. A synonym of *KUHLIA* Gill.

Rhamphoberyx Gill, 87; orthotype *R. PÆCILOPUS* Gill. Young form of *MYRIPRISTIS* Cuv.

Rhombochirus Gill, 88; orthotype *ECHENEIS OSTEOCHIR* Cuv. & Val.

Remoropsis Gill, 88; orthotype *ECHENEIS BRACHYPTERUS* Lowe

814. GILL (1863). *Descriptions of Some New Species of Pediculati*. Proc. Acad. Nat. Sci. Phila., XV.

THEODORE GILL.

Pterophryne Gill, 90; orthotype *CHIRONECTES LÆVIGATUS* Cuv. Name preoccupied; replaced by *PTEROPHYRNOIDES* Gill, 1878. A synonym of *HISTRIO* Fischer.

Histiophryne Gill, 90; orthotype *CHIRONECTES BOUGAINVILLEI* Cuv.

Halieutichthys (Poey) Gill, 90; orthotype *H. RETICULATUS* Poey = *LOPHIUS ACULEATUS* Mitchill.

815. GILL (1863). *Descriptive Enumeration of a Collection of Fishes from the Western Coast of Central America . . . by Captain J. M. Dow*. Proc. Acad. Nat. Sci. Phila., XV.

THEODORE GILL.

Ophioscion Gill, 165; orthotype *O. TYPICUS* Gill.

Amblyscion Gill, 165; orthotype *A. ARGENTEUS* Gill. A section under *LARIMUS* Cuv.

Oligoplites Gill, 166; orthotype *O. OCCIDENTALIS* Gill (not L.) = *SCOMBER SAURUS* Bl. & Schn.

Chænomugil Gill, 169; orthotype *MUGIL PROBOSCIDEUS* Gthr. Apparently a synonym of *CHELON* Röse, 1793.

Rhinomugil Gill, 169; orthotype *MUGIL CORSULA* Hamilton-Buchanan.

Halophryne Gill, 170; orthotype *BATRACHOIDES DIEMENSIS* Le Sueur.

Leptarius Gill, 170; orthotype *LEPTARIUS DOWI* Gill. A synonym of *SELENASPIS* Blkr.

Notarius Gill, 171; orthotype *ARIUS GRANDICASSIS* Cuv. & Val. Equivalent to *ARIUS* Blkr., 1863, not of 1858, and not of Cuvier & Valenciennes.

Urotrygon Gill, 173; orthotype *U. MUNDUS* Gill.

816. GILL (1863). *On an Unnamed Generic Type Allied to Sebastes*. Proc. Acad. Nat. Sci. Phila., XV.

THEODORE GILL.

Sebastoplus Gill, 208; orthotype *SCORPÆNA KUHLI* Bowdich.

817. GILL (1863). *Description of a New Generic Type of Ophidioids*. Proc. Acad. Nat. Sci. Phila., XV.

THEODORE GILL.

Leptophidium Gill, 210; orthotype *L. PROFUNDORUM* Gill. Name preoccupied in snakes. Replaced by *LEPOPHIDIUM* Gill, 1895.

818. GILL (1863). *Synopsis of the Pomacentroids of the Western Coast of North and Central America*. Proc. Acad. Nat. Sci. Phila., XV.

THEODORE GILL.

Dischistodus Gill, 213; orthotype *POMACENTRUS FASCIATUS* Cuv. & Val.

Acanthochromis Gill, 214; orthotype *DASYLLUS POLYACANTHUS* Blkr.

Pomatapriion Gill 216; orthotype *HYPSPOPS DORSALIS* Gill. A synonym of *MICROSPATHODON* Gthr.

819. GILL (1863). *Notes on the Labroids of the Western Coast of North America.* Proc. Acad. Nat. Sci. Phila., XV.

THEODORE GILL.

- Lepidaplois* Gill, 222; orthotype *COSSYPHUS AXILLARIS* Cuv. & Val.
Euphysocara Gill, 222; orthotype *COSSYPHUS ANTHIOIDES* Gthr.
Gymnopropoma Gill, 222; orthotype *COSSYPHUS DILUNULATUS* Cuv. & Val. A synonym of *LEPIDAPLOIS* Gill.
Achærodus Gill, 222; orthotype *COSSYPHUS GOULDI* Rich.
Dimalacocentrus Gill, 223; orthotype *NOVACULA KALLOSOMA* Blkr. A synonym of *NOVACULICHTHYS* Blkr.
Oxyjulis Gill, 223; orthotype *JULIS MODESTUS* Grd.; the name *MODESTUS* preoccupied in *JULIS*; replaced by *ITALICHERES CALIFORNICUS* Gthr.

820. GILL (1863). *Synopsis of the Family of Lepturoids and Description of a Remarkable New General Type.* Proc. Acad. Nat. Sci. Phila., XV.

THEODORE GILL.

- Evoxymetopon* (Poey) Gill, 228; orthotype *E. TENIATUS* Poey.
 821. GILL (1863). *Synopsis of the North American Gadoid Fishes.* Proc. Acad. Nat. Sci. Phila.
Brachygadus Gill, 230; orthotype *GADUS MINUTUS* L. A synonym of *TRISOPTERUS* Raf.
Micromesistius Gill, 231; orthotype *GADUS POUTASSOU* Risso. Called *BRACHYMESISTIUS* on page 233.
Brachymesistius Gill, 233; orthotype *GADUS POUTASSOU* Risso. A lapsus for *MICROMESISTIUS*.
Urophycis Gill, 240; orthotype *BLENNIUS REGIUS* Walbaum.
Rhinonemus Gill, 241; orthotype *GADUS CIMBRIUS* L.

822. GILL (1863). *Descriptions of the Genera of Gadoid and Brotuloid Fishes of North America.* Proc. Acad. Nat. Sci. Phila., XV.

THEODORE GILL.

- Leptogadus* Gill, 248; orthotype *GADUS BLENNIOIDES* Pallas. Perhaps a synonym of *GADICULUS* Guich.
Odontogadus Gill, 248; orthotype *GADUS EUXINUS* Nordmann.
Nematobrotula Gill, 252; orthotype *BROTULA ENSIFORMIS* Gthr.
Stygicola Gill, 252; orthotype *LUCIFUGA DENTATA* Poey.
Hoplobrotula Gill, 253; orthotype *BROTULA ARMATA* T. & S.

823. GILL (1863). *Synopsis of the Family of Lycodidae.* Proc. Acad. Nat. Sci. Phila., XV.

- Macrozoarces* Gill, 258; orthotype *BLENNIUS ANGUILLARIS* Peck.

824. GILL (1863). *Descriptions of the Gobioid Genera of the Western Coast of Temperate North America.* Proc. Acad. Nat. Sci. Phila., XV.

THEODORE GILL.

- Pomatoschistus* Gill, 263; orthotype *GOBIOUS MINUTUS* L. Apparently a synonym of *BRACHYOCHIRUS* Nardo.
Deltentosteus Gill, 263; orthotype *GOBIOUS QUADRIMACULATUS*.
Coryphopterus Gill, 263; orthotype *C. GLAUCOFRÆNUM* Gill. A synonym of *RHINO GOBIUS* Gill.

Coryphogobius Gill, 263; obviously a lapse for CORYPHOPTERUS.

Pterogobius Gill, 266; orthotype GORRUS VIRGO T. & S.

Synechogobius Gill, 266; orthotype GOBIUS HASTA T. & S. A synonym of ACANTHOGOBUS Gill.

825. GILL (1863). *On the Gobioids of the Eastern Coast of the United States*, Proc. Acad. Nat. Sci. Phila., XV.

THEODORE GILL.

Gymnogobius Gill, 269; orthotype GOBIUS MACROGNATHOS Blkr. A synonym of CHÆNOGOBIUS Gill.

Ophiogobius Gill, 269; orthotype GOBIUS OPHIOCEPHALUS Jenyns.

Crystallogobius Gill, 269; orthotype GOBIUS NILSSONI Duben & Koren.

Boreogobius Gill, 269; orthotype GOBIUS STUVITZI Duben & Koren.

Mogurnda Gill, 270; orthotype ELEOTRIS MOGURNDA Rich.

Ophiocara Gill, 270; orthotype ELEOTRIS OPHIOCEPHALUS Cuv. & Val.

Gobiomorphus Gill, 270; orthotype ELEOTRIS GOBIOIDES Cuv. & Val.

Hypseleotris Gill, 270; orthotype ELEOTRIS CYPRINOIDES Cuv. & Val.

Odonteleotris Gill, 270; orthotype ELEOTRIS MACRODON Blkr.

Calleleotris Gill, 270; orthotype ELEOTRIS STRIGATA Cuv. & Val. A synonym of VALENCIENNEA.

Ptereleotris Gill, 271; orthotype ELEOTRIS MICROLEPIS Blkr.

826. GILL (1863). *On the Genus Periophthalmus of Schneider*. Proc. Acad. Nat. Sci. Phila.

THEODORE GILL.

Euchoristopus Gill, 271; orthotype GOBIUS KOELREUTERI Pallas. Replaces PERIOPHTHALMUS of recent authors, of which the logotype is P. SCHLOSSERI.

Boleops Gill, 271; orthotype BOLEOPHTHALMUS AUCUPATORIUS Rich. A synonym of SCARTELAOS Sw.

827. GILL (1863). *Note on the Genera of Hemirhamphinae*. Proc. Acad. Nat. Sci. Phila., XV.

THEODORE GILL.

Zenarchopterus Gill, 273; orthotype HEMIRAMPHUS DISPAR Cuv. & Val.

Oxyporhampus Gill, 273; orthotype HEMIRAMPHUS CUSPIDATUS Cuv. & Val.

828. GÜNTHER (1863). *On New Species of Fishes from Victoria, South Australia*. Ann. Mag. Nat. Hist., XI.

ALBERT GÜNTHER.

Melambaphes Günther, XI, 115; orthotype GLYPHIDODON NIGRORIS Gthr., not of Cuv. & Val. = M. GUENTHERI Gill.

Rhombosolea Günther, XI, 117; orthotype R. FLESOIDES Gthr.

829. GÜNTHER (1863). *On New Species of Fishes from the Essequibo*. Ann. Mag. Nat. Hist., XII.

ALBERT GÜNTHER.

Helogenes Günther, XII, 443; orthotype H. MARMORATUS Gthr.

Crenuchus Günther, XII, 443; orthotype C. SPILURUS Gthr.

830. JOHNSON (1863). *Description of Three New Genera of Marine Fishes Obtained at Madeira*. Ann. Mag. Nat. Hist., XIV.

JAMES YATES JOHNSON.

Diretmus Johnson, 403; orthotype D. ARGENTEUS Johnson.

Halosaurus Johnson, 407; orthotype H. OWENI Johnson.

Chiasmodon Johnson, 408; orthotype C. NIGER Johnson. Spelled CHIASMODUS by Günther.

831. KAUP (1863). *Einige japanische Fische*. Nederl. Tijdschr. Dierk., 1.

JOHANN JACOB KAUP.

Helotosoma Kaup, I, 162; orthotype H. SERVUS Kaup; said to be a synonym of ATYPICHTHYS Gthr.

832. KNER (1863). *Ueber einige fossile Fische aus den Kreide- und Tertiärschichten von Comen und Podsused*. Sitzb. Akad. Wiss. Wien, XLVIII.

RUDOLF KNER.

J. Y. JOHNSON.

Amiopsis Kner, XLVIII, 126; orthotype A. PRISCA Kner (fossil). Fossil homologue of AMIA L.

Scombroclupea Kner, XLVIII, 132; orthotype S. PINNULATA Kner (fossil). The earlier name of this species, CLUPEA MACROPHTHALMA Heckel, 1849, is preoccupied; Ranzani, 1842.

833. KNER & STEINDACHNER (1863). *Neue Beiträge zur Kenntniss der fossilen Fische Oesterreichs*. Denkschr. Akad. Wiss. Wien, XXI.

RUDOLPH KNER; FRANZ STEINDACHNER.

Pseudosyngnathus Kner & Steindachner, XXI, 28; orthotype SYNGNATHUS OPTHOPTERUS Ag. (fossil).

834. KNER & STEINDACHNER (1863). *Neue Gattungen und Arten von Fischen aus Central-Amerika gesammelt von Prof. Moritz Wagner*. Abh. Münchner. Akad. Wiss., X.

RUDOLPH KNER; FRANZ STEINDACHNER.

Date given by Dean as 1870; Troschel quotes these genera as of 1867; Günther, *Zoological Record*, notes them as previous to 1864.

Saccodon Kner & Steindachner, X, 31; orthotype S. WAGNERI Kner & Steindachner.

Pseudochalceus Kner & Steindachner, X, 31; orthotype P. LINEATUS Kner & Steindachner.

Chalcinopsis Kner & Steindachner, X, 31; logotype C. STRIATULUS Kner & Steindachner. A synonym of BRYCON M. & T., not CHALCINOPSIS Halmberg, 1891, which is PSEUDOCORYNOPOMA.

835. MACKIE (1863). *On a New Species of Hybodus from the Lower Chalk*. The Geologist, VI.

SAMUEL JOSEPH MACKIE

Nemacanthus Mackie, VI, 243 (orthotype ACRODUS KEUPERIANUS Murchison & Strickland (fossil). A synonym of ACRODUS; name preoccupied, 1837.

836. VON DER MARCK (1863). *Fossile Fische, Krebse und Pflanzen aus dem Plattenkalk der jüngsten Kreide in Westphalen*. Palæontographica, XI, Cassel

W. VON DER MARCK.

Macrolepis von der Marck, XI, 26; orthotype M. ELONGATUS Marck (fossil).

Rhabdolepis von der Marck, XI, 26; orthotype R. CRETACEUS Marck (fossil). Name preoccupied; replaced by HOLCOLEPIS von der Marck, 1868.

Palæolycus von der Marck, XI, 31; orthotype P. DREGINENSIS Marck (fossil).

Scrobodus (Münster) von der Marck, XI, 38; orthotype S. SUBOVATUS Münster (fossil). A synonym of LEPIDOTES.

Microcœlia von der Marck, XI, 48; orthotype *M. GRANULATA* Marck (fossil).

Leptosomus von der Marck, XI, 49; orthotype *L. GUESTPHALICUS* Marck (fossil).
(Name several times preoccupied.)

Tachynectes von der Marck, XI, 51; logotype *T. MACRODACTYLUS* Marck (fossil).

Enchelurus von der Marck, XI, 58; orthotype *E. VILLOSUS* Marck (fossil).

Leptotrachelus von der Marck, XI, 59; orthotype *L. ARMATUS* Marck (fossil).

837. PUTNAM (1863). *List of the Fishes Sent by the Museum in Exchange*, etc.
Bull. Mus. Comp. Zool. Harvard College, I.

FREDERICK WARD PUTNAM (1839-1915).

Nothonotus (Agassiz) Putnam, I, 3; orthotype *ETHEOSTOMA MACULATA* Kirtland.

Microperca Putnam, I, 4; orthotype *M. PUNCTULATA* Putnam.

Cottogaster Putnam, I, 4; orthotype *BOLEOSOMA TESSELLATUM* Thompson, not of
Dekay = *COTTOGASTER PUTNAMI* J. & G.

Pleurolepis (Agassiz) Putnam, I, 5; orthotype *ETHEOSTOMA PELLUCIDUM* Ag.
Name preoccupied; replaced by *VIGIL* Jordan, 1919.

Anarmostus (Scudder) Putnam, I, 12; logotype *DIABASIS FLAVOLINEATUS* Desmarest.
Name preoccupied; a synonym of *HÆMULON* Cuv.

Bathystoma (Scudder) Putnam, I, 12; logotype *PERCA MELANURA* L = *HÆMULON*
JENIGUANO Poey.

838. SCHAFFHÄUTL (1863). *Südbayerns Lethæa Geognostica*.

K. E. SCHAFFHÄUTL (1803-1890).

Diaphyodus Schaffhäutl, 246; orthotype *D. OVALIS* Schaffhäutl (fossil). A synonym
of *LABRODON*.

839. SIEBOLD (1863). *Die Süßwasserfische von Mitteleuropa*.

CARL THEODOR ERNST VON SIEBOLD (1804-1885).

Abramidopsis Siebold, 117; orthotype *A. LEUCKARTI* Siebold. Thought to be a
hybrid of *ABRAMIS* and *RUTILUS*.

Bliccopsis Siebold, 142; orthotype *B. ABRAMORUTILUS* Siebold. Thought to be a
hybrid: *BLICCA* and *RUTILUS*.

840. STEINDACHNER (1863). *Ichthyologische Mittheilungen: V. Ueber einige*
Labroiden. Verh. Zool. Bot. Ges. Wien, XIII.

FRANZ STEINDACHNER.

Cheiliopsis Steindachner, 1113; orthotype *C. BIVITTATUS* Steind.

841. STEINDACHNER (1863). *Beiträge zur Kenntniss der fossilen Fischfauna*
Oesterreichs. Sitz. Akad. Wiss. Wien, XLVII.

FRANZ STEINDACHNER.

Calamostoma Steindachner, XLVII, 133; logotype *ACANTHURUS CANOSSÆ* Heckel
(fossil). Name preoccupied, replaced by *AULORHAMPHUS* De Zigno, 1887.

842. STEINDACHNER (1863). *Beiträge zur Kenntniss der Scianoiden Brasiliens*
mit der Cyprinodonten Mexicos. Sitz. Akad. Wiss. Wien, XLVIII.

FRANZ STEINDACHNER.

Diplolepis Steindachner, 2; orthotype *SCLENA SQUAMOSISSIMA* Heckel. Name pre-
occupied; a synonym of *PLAGIOSCION* Gill.

Pœcilodes Steindachner, XLVIII, 176; orthotype *P. BIMACULATUS* Steind. Syno-
nym of *PSEUDOXIPHOPHORUS* Blkr.

843. WAGNER (1863). *Monographie der fossilen Fische aus den lithographischen Schieferen Bayerns*. IX.

ANDREAS WAGNER.

Heterostrophus Wagner, IX, 614; orthotype II. **LATUS** Wagner (fossil). Printed **HETEROSTICHUS** in *Anz. Bayr. Akad. Wiss.*, 1860, p. 63. This name is pre-occupied.

Plesiodus Wagner, IX, 632; orthotype P. **PUSTULOSUS** Wagner (fossil). A synonym of **LEPIDOTES**.

Eurycormus Wagner, IX, 707; orthotype E. **SPECIOSUS** Wagner (fossil). A synonym of **MACROPOMA** Ag.

Liodesmus Wagner, IX, 709; orthotype **PHOLIDOPHORUS GRACILIS** Ag. (fossil).

Macrorhipis Wagner, IX, 723; orthotype **PACHYCORMUS MUENSTERI** Wagner (fossil). A synonym of **IONOSCOPIUS**.

1864

844. VAN BENEDEN & DE KONINCK (1864). *Notice sur le Palædaphus insignis*. Bull. Roy. Soc. Belge, XVII.

PIERRE J. VAN BENEDEN (1809-1894); L. J. DE KONINCK.

Palædaphus Van Beneden & De Koninck, XVII, 150; orthotype P. **INSIGNIS** Beneden & Koninck (fossil).

845. BLEEKER (1864). *Notice sur la faune ichthyologique de Siam*. Versl. Akad. Amsterdam, XVI, 1864, 352-358.

PIETER BLEEKER.

Heterobagrus Bleeker, 355; orthotype H. **BOCOURTI** Blkr.

846. BOCAGE & CAPELLO (1864). *Sur quelques espèces inédites de Squallidæ... que fréquentent les côtes du Portugal*. Proc. Zool. Soc. London.

JOSÉ VINCENT BARBOZA DU BOCAGE (1823-1907);

FELIX DE BRITO CAPELLO (1838-).

Centroscymnus Bocage & Capello, 263; orthotype C. **CÆLOLEPIS** Bocage & Capello.

Scymnodon Bocage & Capello, 263; orthotype S. **INGENS** Bocage & Capello.

847. CANESTRINI (1864). *Studi sui Lepadogaster del Mediterraneo*. Arch. Zool. Anat. Fisiol., III.

GIOVANNI CANESTRINI.

Mirbelia Canestrini, 189; logotype **LEPADASTER DECANDOLLII** Risso.

848. COCCHI (1864). *Monografia dei Pharyngodopilidæ nuovo famiglia dei pesci Labroidæ*. Ann. Mus. Firenze, I.

IGINO COCCHI (1828-).

Egertonia Cocchi, I, 121; orthotype E. **ISODONTA** Cocchi (fossil).

Pharyngodopilus Cocchi, I, 123; logotype P. **CANARIENSIS** Cocchi (fossil). A synonym of **LABRODON**.

Taurinichthys Cocchi, I, 152; orthotype **SCARUS MIOCENICUS** Michelotti (fossil).

849. COPE (1864). *On a Blind Silurid... from Pennsylvania*. Proc. Acad. Nat. Sci. Phila.

EDWARD DRINKER COPE (1840-1897).

Gronias Cope, 231; orthotype **GRONIAS NIGRILABRIS** Cope.

850. COSTA (1864). (*Fossil Fishes.*) Atti, Pontan.

ORONZIO GABRIELE COSTA.

Oenoscopus Costa, VIII, 59; orthotype **IONOSCOPUS** PETRAROLÆ Costa (fossil).
Name a (needless?) substitute for **IONOSCOPUS**.

Hyptius Costa, 80; orthotype **H. SEBASTIANI** Costa. A synonym of **SAUROPSIDIUM** Costa, 1850.

Platycerhynchus Costa, VIII, 98; orthotype **P. RHOMBEUS** Costa (fossil). An indeterminate ally of **BELONOSTOMUS**.

851. EGERTON (1864). *On Some Ichthyolites . . . from New South Wales.*
Quart. Journ. Geol. Soc., XX.

PHILIP DE MALPAS GREY EGERTON.

Myriolepis Egerton, XX, 3; orthotype **M. CLARKEI** Egert. (fossil).

Cleithrolepis Egerton, XX, 3; orthotype **C. GRANULATUS** Egert. (fossil).

852. GILL (1864). *Description of a New Labroid Genus Allied to Trochocopus Gthr.*
Proc. Acad. Nat. Sci. Phila., XVI.

THEODORE GILL.

Pimelometopon Gill, 58; orthotype **LABRUS PULCHER** Ayres.

853. GILL (1864). *Notes on the Nomenclature of Genera and Species of the Family Echeineidoidæ.* Proc. Acad. Nat. Sci. Phila., XVI.

THEODORE GILL.

Leptecheneis Gill, 60; orthotype **ECHENEIS NAUCRATES** L. A synonym of **ECHENEIS** L. as restricted by Gill, 1860.

854. GILL (1864). *Critical Remarks on the Genera Sebastes and Sebastodes of Ayres.* Proc. Acad. Nat. Sci. Phila., XVI.

THEODORE GILL.

Sebastomus Gill, 147; orthotype **SEBASTES ROSACEUS** Grd.

Sebastosomus Gill, 147; orthotype **SEBASTES MELANOPS** Grd.

855. GILL (1864). *Second Contribution to the Selachology of California.* Proc. Acad. Nat. Sci. Phila., XVI.

THEODORE GILL.

Eugaleus Gill, 148; orthotype **SQUALUS GALEUS** L. Substitute for **GALEUS** Cuv., preoccupied by **GALEUS** Raf. A synonym of **GALEORHINUS** Blaniv., as restricted by Gill.

Pleuracromylon Gill, 148; orthotype **MUSTELUS LEVIS** = **GALEUS MUSTELUS** Gill. A synonym of **MUSTELUS** Cuv., not of **VALMONT**, the last probably not eligible.

856. GILL (1864). *Several Points in Ichthyology.* Proc. Acad. Nat. Sci. Phila., XVI.

THEODORE GILL.

Electrophorus Gill, 151; orthotype **GYMNOTUS ELECTRICUS** L.

Gymnnotes Gill, 152; orthotype **GYMNOTUS ÆQUILABIATUS** Humboldt. A synonym of **STERNOPYGUS** M. & T.

Hypopomus Gill, 152; orthotype **RHAMPHICHTHYS MULLERI** Kaup. Replaces **BRACHYRHAMPHICHTHYS** Gthr., 1870.

857. GILL (1864). *Notes on the Paralepidoids and Microstomatoids and on Some Peculiarities of Arctic Ichthyology.* Proc. Acad. Nat. Sci. Phila., XVI.

Arctozenus Gill, 188; orthotype **PARALEPIS BOREALIS** Reinh.

858. GILL (1864). *Note on the Cyclopteroids of Eastern North America.* Proc. Acad. Nat. Sci. Phila., XVI.

THEODORE GILL.

Eumicrotremus Gill, 190; orthotype *CYCLOPTERUS SPINOSUS* Müller.

859. GILL (1864). *Synopsis of the Pleuronectoids of California and Northwestern America.* Proc. Acad. Nat. Sci. Phila., XVI.

THEODORE GILL.

Lepidopsetta Gill, 195; orthotype *PLATICHTHYS UMBROSUS* Grd.

Hypopsetta Gill, 195; orthotype *PLEURONICHTHYS GUTTULATUS* Grd.

Metoponops Gill, 198; orthotype *M. COOPERI* Gill = *PSETTICHTHYS SORDIDUS* Grd.
A synonym of *ORTHOSETTA* Gill.

860. GILL (1864). *On the Affinity of Several Doubtful British Fishes.* Proc. Acad. Nat. Sci. Phila., XVI.

THEODORE GILL.

Helminthodes Gill, 203; orthotype *ONYBELES LUMBRICOIDES* Blkr.

861. GILL (1864). *Note on the Family of Stichæoids.* Proc. Acad. Nat. Sci. Phila., XVI.

Anisarchus Gill, 210; orthotype *CLINUS MEDIUS* Reinh.

Eumesogrammus Gill, 210; orthotype *CLINUS PRECISUS* Kröyer.

862. GILL (1864). *Synopsis of the Pleuronectoids of the Eastern Coast of North America.* Proc. Acad. Nat. Sci. Phila., XVI.

THEODORE GILL.

Pomatopsetta Gill, 216; orthotype *PLATESSA DENTATA* Storer = *PLEURONECTES PLATESSOIDES* Fabricius. A synonym of *HIPPOGLOSSOIDES* Gottsche.

Lophopsetta Gill, 216; orthotype *PLEURONECTES MACULATUS* Mitchill.

Liopsetta Gill, 216; orthotype *PLATESSA GLABRA* Storer.

Myzopsetta Gill, 217; orthotype *PLATESSA FERRUGINEA* Storer. A synonym of *LIMANDA* Gotsche.

Chænopsetta Gill, 218; orthotype *PLATESSA OCELLARIS* Dekay. A synonym of *PARALICHTHYS* Grd.

Euchalarodus Gill, 221; orthotype *E. PUTNAMI* Gill, the male of *LIOPSETTA GLABRA* (Storer). A synonym of *LIOPSETTA* Gill.

Ancylopsetta Gill, 224; orthotype *A. QUADROCELLATA* Gill. A synonym of *PSEUDORHOMBUS* Blkr.

863. GILL (1864). *Synopsis of the Eastern American Sharks.* Proc. Acad. Nat. Sci. Phila., XVI.

THEODORE GILL.

Eugomphodus Gill, 26; orthotype *SQUALUS LITTORALIS* Mitchill. A synonym of *CARCHARIAS* Raf.

Platypodon Gill, 264; orthotype *CARCHARIS MENISORRAH* M. & H.

Isistius Gill, 264; orthotype *SCYMNUS BRASILIENSIS* Q. & G.

Euprotomicrus Gill, 264; orthotype *SCYMNUS LABORDEI* M. & H.

Rhinoscymnus Gill, 264; orthotype *SCYMNUS ROSTRATUS* Risso.

864. GILL (1864). *Review of Holbrook's Ichthyology of South Carolina.* Am Journ. Sci. Arts, XXXVII.

THEODORE GILL.

Enneacanthus Gill, 92; orthotype *POMOTIS OBESUS* Grd.

Acantharchus Gill, 92; orthotype *CENTRARCHUS POMOTIS* Baird.

Hyperistius Gill, 92; orthotype *CENTRARCHUS HEXACANTHUS* Cuv. A section under *POMOXIS* Raf.

Mesogonistius Gill, 92; orthotype *POMOTIS CHÆTODON* Baird.

Chænobryttus Gill, 92; orthotype *CALLIURUS MELANOPS* Grd. = *POMOTIS GULOSUS* Cuv. & Val. Misprinted *CHÆNOBRYTHUS*.

Eucentrarchus Gill, 93; orthotype *PERCA IRIDEA* Bosc. A substitute for *CENTRARCHUS* as currently used—not of Cuvier & Valenciennes, which is a synonym of *AMBOPLITES* Raf.

865. GRAY (1864). *Notice of a Portion of a New Form of Animal (Myriosteon higginsii) Probably Indicating a New Group of Echinodermata.* Proc. Zool. Soc. London.

JOHN EDWARD GRAY.

Myriosteon Gray; orthotype *M. HIGGINSII* Gray; a tube from a rostral cartilage of *PRISTIS*, supposed to be an echinoderm. A synonym of *PRISTIS* Latham.

866. GUICHENOT (1864). *L. Maillard: Notes sur l'île de la Réunion.* Fauna Ichthiologique.

ALPHONSE GUICHENOT.

Glyphodes Guichenot, 3; orthotype *G. APRIONOIDES* Guich. Name preoccupied in *LEPIDOPTERA*.

Cotylopus Guichenot (appendix) 10; logotype *C. ACUTIPINNIS* Guich.

867. GÜNTHER (1864). *Catalogue of the Fishes in the British Museum.* V. ALBERT GÜNTHER.

Copiodoglanis Günther, V, 25; logotype *PLOTOSUS TANDANUS* Mitchill. A synonym of *TANDANUS* Mitchill.

Amphilius Günther, V, 115; orthotype *PIMELODUS PLATYCHIR* Gthr.

Notoglanis Günther, V, 136; haplotype *PIMELODUS MULTIRADIATUS* Kner = *P. ARAKAIMA* Schomburgk. A section under *RHAMDIA*.

Eucliptosternum Günther, V, 180; orthotype *SILURUS COUS* L. A substitute for *AGLYPTOSTERNON* Blkr., 1863, the thorax having a sucking disk, which Bleeker's name would deny. The change is not admissible.

Diplomystax Günther, V, 180; orthotype *ARIUS PAPILLOSUS* Cuv. & Val. An emendation of *DIPLOMYSTES* Blkr.

Paradiplomystax Günther, V, 180; orthotype *PIMELODUS CORUSCANS* Lichtenstein. An emendation of *PARADIPOMYSTES* Blkr.

Rhinoglanis Günther, V, 216; orthotype *R. TYPUS* Gthr.

Cnidoglanis Günther, V, 217; logotype *PLOTOSUS MEGASTOMUS* Rich.

Callomystax Günther, V, 218; orthotype *PIMELODUS GAGATA* Ham. = *GAGATA AYPUS* Blkr. An unwarranted substitute for *GAGATA* Blkr., incorrectly defined. A synonym of *BATASIO* Blyth.

Stygogenes Günther, V, 223; orthotype *S. HUMBOLDTI* Gthr. Perhaps a synonym of *CYCLOPIUM* Sw.

Scleromystax Günther, V, 225; orthotype *CALlichthys BARBATUS* Q. & G.

Liposarcus Günther, V, 234; logotype *HYPOSTOMUS MULTIRADIATUS* Hancock.

Cochliodon (Heckel) Günther, V, 238; tautotype *HYPOSTOMUS COCHLIODON* Kner.

Heterythrinus Günther, V, 283; orthotype *ERYTHRINUS SALMONEUS* Gronow. A synonym of *ERYTHRINUS* (Gronow) Scopoli.

- Cænotropus** Günther, V, 297; orthotype **CITHARINUS CHILODUS** Cuv. & Val. = **CHILODUS PUNCTATUS** M. & T. A substitute for **CHILODUS** M. & T. and **MICRODUS** Kner, both names preoccupied.
- Brachyalestes** Günther, V, 314; logotype **MYLETES NURSE** Rüppell.
- Hemibrycon** Günther, V, 318; haplotype **TETRAGONOPTERUS POLYODON** Gthr.
- Creatochanes** Günther, V, 318; logotype **SALMO MELANURUS** Bloch.
- Seissor** Günther, V, 331; orthotype **S. MACROCEPHALUS** Gthr.
- Creagrutus** Günther, V, 339; orthotype **LEPORINUS MUELLERI** Gthr.
- Anacyrtus** Günther, V, 345; logotype **SALMO GIBBOSUS** L. Substitute for **EPICYRTUS**, preoccupied.
- Ræstes** Günther, V, 345; orthotype **CYNOPOTAMUS MOLOSSUS** Kner.
- Ræboides** Günther, V, 345; logotype **ANACYRTUS GUATEMALENSIS** Gthr.
- Hystricodon** Günther, V, 349; orthotype **EXODON PARADOXUS** M. & T. = **EPICYRTUS EXODON** Cuv. & Val. A substitute for **EXODON** M. & T., said to be preoccupied.
- Sarcodaces** Günther, V, 353; orthotype **SALMO ODOË** Bloch.
- Oligosarcus** Günther, V, 353; orthotype **O. ARGENTEUS** Gthr.
- Ichthyborus** Günther, V, 364; orthotype **I. MICROLEPIS** Gthr.
- Prototroctes** Günther, V, 383; orthotype **P. MARENA** Gthr.
- Coccia** Günther, V, 387; orthotype **GONOSTOMUS OVATUS** Cocco. A substitute for **ICHTHYOCOCCUS** Bon., a name given in honor of Cocco. Such names have "always been considered as a nuisance," hence changed by Günther, an action without warrant under accepted rules.
- Notoscopelus** Günther, V, 405; logotype **LAMPANYCTUS RESPLENDENS** Rich. Replaces **MACROSTOMA** Risso, preoccupied as **MACROSTOMUS**.
- Dasy Scopelus** Günther, V, 405; orthotype **MYCTOPHUM ASPERUM** Rich.
- Ceratiscopelus** Günther, V, 405; orthotype **SCOPELUS MADERENSIS** Lowe.
- Melamphaes** Günther, V, 433; orthotype **METOPIAS TYPHILOPS** Lowe, substitute for **METOPIAS**, preoccupied.
868. GÜNTHER (1864). *Description of a New Fossil Fish from the Lower Chalk (Folkestone)*. Geol. Mag., I.
ALBERT GÜNTHER.
- Plinthophorus** Günther, I, 115; orthotype **P. ROBUSTUS** Gthr. (fossil).
869. GÜNTHER (1864). *On Some New Species of Central American Fishes*. Proc. Zool. Soc. London.
ALBERT GÜNTHER.
- Microdesmus** Günther, 26; orthotype **M. DIPUS** Gthr.
870. GÜNTHER (1864). *On a New Genus of Pediculate Fish (Melanocetus johnsoni) from the Sea of Madeira*. Proc. Zool. Soc. London.
ALBERT GÜNTHER.
- Melanocetus** Günther, 301; orthotype **M. JOHNSONI** Gthr.
871. GÜNTHER (1864). *On a New Generic Type of Fishes Discovered by the Late Dr. Leichardt in Queensland*. Ann. Mag. Nat. Hist.
ALBERT GÜNTHER.
- Scleropages** Günther, XIV, 195; orthotype **S. LEICHARDTI** Gthr.
872. GÜNTHER (1864). *Report on a Collection of Reptiles and Fishes Made by Dr. Kirk in the Zambesi and Nyassa Regions*. Proc. Zool. Soc. London.
ALBERT GÜNTHER.
- Peletrophus** Günther, 314; logotype **P. MICROLEPIS** Günther.

873. GÜNTHER (1864). *Zoological Record for 1864.*

ALBERT GÜNTHER.

Auchenoglanis Günther, 165; orthotype *PIMELODUS BISCUTATUS* Geoffroy St. Hilaire.
A substitute for *AUCHENASPIS* Blkr. (not Egerton), preoccupied.

Gillia Günther, 157; orthotype *GILLICHTHYS MIRABILIS* Cooper. A substitute for *GILLICHTHYS*, deemed "barbarous."

874. JÄCKEL (1864). *Die Fische Bayerns*. Abh. Zool. Min. Ver. Regensburg.
ANDREAS JOHANNES JÄCKEL.

Scardiniopsis Jäckel, 101; orthotype *S. ANCEPS* Jäckel. Supposed to be a hybrid of *RUTILUS* and *SCARDINIUS*.

875. KNER (1864). *Specielles Verzeichniss der Kaiserlichen Fregatte "Novara" gesammelten Fische*. Sitzb. Akad. Wiss. Wien, LIII.

RUDOLF KNER.

Pseudomugil Kner, LIII, 543; orthotype *P. SIGNIFER* Kner.

Chæroplotosus Kner, LIII, 545; orthotype *PTOTOSUS LIMBATUS* Cuv. & Val.

Silurodon Kner, LIII, 546; orthotype *S. HEXANEMA* Kner.

876. MARCUSEN (1864). *Die Familie der Mormyren, etc.* Mem. Acad. Sci. St. Petersb., VII.

JOHANN MARCUSEN.

Petrocephalus Marcusen, 1; logotype *MORMYRUS BANE* Lac.

Phagrus Marcusen, 1; orthotype *MORMYRUS DORSALIS* Geoffroy St. Hilaire.

877. PETERS (1864). *Ueber einige neue Säugethiere, Amphibien und Fische*. Sitzb. Akad. Wiss. Berlin.

WILHELM PETERS.

Saurenychelys Peters, 397; orthotype *S. CANCRIVORA* Peters. A synonym of *CHLOPSIS* Raf.

Diaphanichthys Peters, 399; orthotype *D. BREVICAUDUS* Peters. Larva, allied to *CONGER*.

878. POWRIE (1864). *On the Fossiliferous Rock of Forfarshire and Their Contents*. Quart. Journ. Geol., XX.

JAMES POWRIE.

Ictinocephalus (Page) Powrie, XX, 419; orthotype *DIPLACANTHUS GRACILIS* Egert. (fossil). Listed name only as *I. GRANULATUS* by Page, *Rept. Brit. Assn.*, 1858, 104.

Euthacanthus Powrie, XX, 425; orthotype *E. MACNICOLI* Powrie. A synonym of *CLIMATIUS* Ag.

879. ROMANOWSKY (1864). *Description de quelques restes de poissons fossiles trouvés dans le calcaire carbonifère du gouvernement de Toul.* Bull. Soc. Imp. Nat. Moscou, II.

GHEMNADI DANILOVICH ROMANOWSKY (= ROMANOVSKII).

Lophodus Romanowsky, XXXVI, 160; logotype *L. IRREGULARIS* Romanowsky (fossil). Apparently a synonym of *PSEPHODUS*.

Plintholepis Romanowsky, XXXVII, 169; orthotype *P. RETRORSA* Romanowsky (fossil).

Sporolepis Romanowsky, XXXVII, 169; logotype *S. PYRIFORMIS* Romanowsky (fossil).

1865

880. BLEEKER (1865). *Rhinobagrus et Pelteobagrus, deux genres nouveaux de Siluroïdes de Chine*. Neder. Tijdschr. Dierk., II, 1865, 710.

PIETER BLEEKER.

Rhinobagrus Bleeker, 9; orthotype *R. DUMERILI* Blkr.

Pelteobagrus Bleeker, 9; orthotype *SILURUS CALVARIUS* Basilewsky = *PIMELODUS FLUIDRACO* Rich. Replaces *FLUIDRACO* Jordan & Starks.

881. BLEEKER (1865). *Paralaubuca, un genre nouveau de Cyprinoïdes de Siam*. Neder. Tijdschr. Dierk., II, 1865, 15-17.

PIETER BLEEKER.

Paralaubuca Bleeker, 11, 16; orthotype *P. TYPUS* Blkr.

882. BLEEKER (1865). *Notices sur quelques genres et espèces de Cyprinoïdes de Chine*. Neder. Tijdschr. Dierk., II, 1865, 28-29.

PIETER BLEEKER.

Parabramis Bleeker, 22; orthotype *ABRAMIS PEKINENSIS* Basil.

Acanthobrama Bleeker, 25; orthotype *A. SINONI* Blkr.

Paracanthobrama Bleeker, 23; orthotype *P. GUICHENOTI* Blkr.

Pseudolaubuca Bleeker, 28; orthotype *P. SINENSIS* Blkr.

883. BLEEKER (1865). *Poissons inédits indo-archipélagiques de l'ordre des Murènes*. Neder. Tijdschr. Dierk., II, 1865, 55-62.

PIETER BLEEKER.

Brachyconger Bleeker, 11, 236; orthotype *MURÆNA SAVANNA* Cuv. A synonym of *CYNOPONTICUS* Costa.

Achirophichthys Bleeker, 11, 242; orthotype *A. TYPUS* Blkr. Apparently the young of *BRACHYSOMOPHIS*.

884. BLEEKER (1865). *Systema Murænarum revisum*. Neder. Tijdschr. Dierk., II, 1865, 113-122.

PIETER BLEEKER.

Paranguilla Bleeker, 113; orthotype *ENCHELYOPUS TIGRINUS* Ag. (fossil). Name a substitute for *ENCHELYOPUS* Ag., preoccupied.

Pseudomoringua Bleeker, 114; orthotype *MORINGUA LUMBRICOIDEA* Rich.

Oxyconger Bleeker, 116; orthotype *CONGER LEPTOGNATHUS* Blkr.

885. BLEEKER (1865). *Quatrième notice sur la faune ichthyologique de l'île de Bouru*. Neder. Tijdschr. Dierk., II, 1865.

PIETER BLEEKER.

Tetradès Bleeker, 145; orthotype *TETRADRACHMUM XANTHOSOMA* Blkr. Apparently a lapsus for *TETRADRACHMUM*.

886. BLEEKER (1865). *Notice sur le genre Paraploactis et description de son espèce type*. Neder. Tijdschr. Dierk., 1865, 168-170.

PIETER BLEEKER

Paraploactis Bleeker, 11, 169; orthotype *P. TRACHYDERMA* Blkr.

- 886A. BLEEKER (1865). *Description de quelques espèces de poissons du Japon, du Cap de Bonne Espérance et de Suriname*. au Musée de Leide. Neder. Tijdschr. Dierk., II, 250-269.

Parajulis Bleeker, 251, orthotype *JULIS PEGILOPTERUS* T. & S. A synonym of *HALICHTERES* Ruppell (*HEMULUS* SW.).

887. BLEEKER (1865). *Sixième notice sur la faune ichthyologique de Siam*. Neder. Tijdschr. Dierk., II, 1865, 171-176.
PIETER BLEEKER.
Parastromateus Bleeker, 174; orthotype **STROMATEUS NIGER** Bloch. A synonym of **APOLECTUS** Cuv. & Val.
888. BLEEKER (1865). *Énumération des espèces de poissons actuellement connues de l'île de Ceram*. Neder. Tijdschr. Dierk., II, 1865, 182-183.
Solenichthys Bleeker, 183; logotype **FISTULARIA PARADOXUS** Pallas. A substitute for **SOLENOTOMUS** Lac., regarded as preoccupied by **SOLENOTOMUS** Gronow; and of Klein, which is a synonym of **FISTULARIA** L. Later (1873) Bleeker changed **SOLENOTHYS** to **SOLENOTOMATICHTHYS**.
889. BLEEKER (1865). *Énumération des espèces de poissons actuellement connues de l'île d'Amboine*. Neder. Tijdschr. Dierk., II, 1865, 270-283.
PIETER BLEEKER.
Paradiodon Bleeker, 271; orthotype **DIDON HYSTRIX** L., the name **DIDON** being transferred to **DIDON ATINGA**, the first species named by Linnæus. A synonym of **DIDON** L. as now understood.
Pseudalutarius Bleeker, 273; orthotype **ALUTERES NASICORNIS** T. & S. Name unnecessarily changed to **PSEUDALUTERES** Blkr., 1866.
Paraplagusia Bleeker, 274; orthotype **PLAGUSIA BILINEATA** Blkr.
Pseudamia Bleeker, 284; orthotype **APOGON POLYSTIGMA** Blkr.
890. BLEEKER (1865). *Atlas ichthyologique, etc. V. Baudroies, Ostracions, etc.*
PIETER BLEEKER.
Atopomycterus (Kaup) Bleeker, 49; orthotype **DIDON NYCTHEMERUS** Cuv..
Uranostoma (Bibron) Bleeker, 63; orthotype not stated, passing reference to a manuscript name in the Museum of Paris. (A synonym of **SPHEROIDES** or of **TETRAODON**.)
Pleuranacanthus (Bibron) Bleeker, 65; orthotype **P. ARGENTATUS** Bibron = **TETRAODON SCLELERATUS** Forster. A manuscript name in the Museum of Paris, noted by Bleeker in *Synonymy*. Same as **PROMECOCEPHALUS** Bibron; a synonym of **LAGOCEPHALUS** Sw.
891. COPE (1865). *Partial Catalogue of the Cold-blooded Vertebrata of Michigan. Supplemental Note on a Peculiar Genus of Cyprinidæ*. Proc. Acad. Nat. Sci. Phila.
EDWARD DRINKER COPE.
Ericymba Cope, 88; orthotype **E. BUCCATA** Cope.
892. COSTA (1865). *Studi sopra i terrene ad ittioliti delle provincie Napolitane, etc.* Atti Reale Accad. Sci. Napoli.
ORONZIO GABRIELE COSTA.
Heterolepis Costa, II, 4; orthotype (not stated by Woodward) (fossil).
Andreiopleura Costa, II, 27; orthotype **A. VETUSTISSIMA** Costa (fossil). Called **A. ESIMIA (EXIMIA)** Costa on page 10.
893. DAY (1865). *The Fishes of Malabar*.
FRANCIS DAY (1829-1889).
Paranandus Day, 130; orthotype **CATOPRA MALABARICA**. A synonym of **PRISTOLEPIS** Jerdon (**CATOPRA**).

- Platacanthus** Day, 296; orthotype *P. AGRENSIS* Day. A synonym of *LEPIDO CEPHALICHTHYS* Blkr.
- Brachygramma** Day, 304; orthotype *B. JERDONI* Day. A synonym of *AMBLYPIARYNGODON* Blkr.
- Paradanio** (Bleeker) Day, 319; orthotype *PERILAMPUS AUROLINEATUS* Day. A synonym of *DANIO* Ham.
894. DUMÉRIL (AUGUSTE) (1865). *Histoire naturelle des poissons ou ichthyologie générale*. Vol. I.
AUGUSTE HENRI ANDRÉ DUMÉRIL.
- Paratrygon** Duméril, 594; orthotype a specimen from Brazil, identified as *TRYGON AIREBA* M. & H. = *RAJA ORBICULARIS* Bl. & Schn., usually regarded as replacing *POTAMOTRYGON* Garman, 1877, but Eigenmann considers it as the same as *DISCEUS* Garman.
895. GILL (1865). *Synopsis of the Fishes of the Gulf of St. Lawrence and Bay of Fundy*. Canadian Naturalist, II.
THEODORE GILL.
- Stilbius** Gill, 262 (18, reprint); orthotype *CYPRINUS AMERICANUS* Lac. A substitute for *STILBE*, preoccupied. A synonym of *NOTEMIGONUS* Raf.
- Micristius** Gill, 24 (reprint); logotype *FUNDULUS ZONATUS* Cuv. & Val. A synonym of *ZYGONECTES* Ag.
896. GILL (1865). *On the Genus Caulolatilus*. Proc. Acad. Nat. Sci. Phila.
THEODORE GILL.
- Prolatilus** Gill, 66; orthotype *LATILUS JUGULARIS* Cuv. & Val.
897. GILL (1865). *On the Cranial Characters of Gadus proximus* Grd. Proc. Acad. Nat. Sci. Phila.
THEODORE GILL.
- Microgadus** Gill, 69; orthotype *GADUS PROXIMUS* Grd.
898. GILL (1865). *On a New Genus of Serranine*. Proc. Acad. Nat. Sci. Phila.
THEODORE GILL.
- Trisotropis** Gill, 104; orthotype *JOHNIUS GUTTATUS* Bl. & Schn. = *PERCA VENENOSA* L.
- Enneacentrus** Gill, 105; orthotype *PERCE PUNCTATA* L. A synonym of *CEPHALOPHOLIS* Bl. & Schn.
- Petrometopon** Gill, 105; orthotype *SPARUS CRUENTATUS* Lac.
899. GILL (1865). *On a New Generic Type of Sharks*. Proc. Acad. Nat. Sci. Phila.
THEODORE GILL.
- Micristodus** Gill, 177; orthotype *M. PUNCTATUS* Gill. A synonym of *RHINEODON* Smith.
900. GILL (1865). *Note on the Family of Myliobatoids with Description of a New Species of Aetobatis*. Ann. Lyc. N. Y., VII.
THEODORE GILL.
- Mylorhina** Gill, 136; orthotype *RHINOITERA LALANDE* M. & H.
- Micromesus** Gill, 136; orthotype *RHINOITERA ADSPERSA* M. & H.
901. GÜNTHER (1865). *Description of a New Characinoid Genus of Fish (Phagoloricatus) from West Africa*. Ann. Mag. Nat. Hist., XV.
ALBERT GÜNTHER.
- Phago** Gunther, XV, 3; orthotype *P. LORICATUS* Gthr

902, 903. GÜNTHER (1865). *Zoological Record*. II.

ALBERT GÜNTHER.

Herpetoichthys (Smith) Günther, 159; orthotype *ERPETOICHTHYS MALABARICUS* Smith. Name preoccupied, replaced by *CALAMOICHTHYS* Smith, 1866.

904. JOHNSON (1865). *Description of a New Genus of Trichuroid Fishes Obtained at Madeira, with Remarks, etc.* Proc. Zool. Soc. London.

JAMES YATE JOHNSON.

Nealotus Johnson, 434; orthotype *N. TRIPES* Johnson.

905. KNER (1865). *Einige neue Fische*, etc. Anz. Akad. Wiss. Wien.

RUDOLF KNER.

Thysanoecheilus Kner, I, 185; orthotype *T. ORNATUS* Kner, not *THYSANOCHILUS* Philippi, 1857.

Leius Kner, 186; orthotype *L. FEROX* Kner. A synonym of *ISISTIUS* Gill.

906. KNER (1865). *Reise der Oesterreichischen Fregatte "Novara" um die Erde in den Jahren 1857-59, unter . . . B. von Wüllersdorf-Urbain.*

RUDOLPH KNER.

Pseudomugil Kner, 275; orthotype *P. SIGNIFER* Kner.

Chæroplotosus Kner, 300; orthotype *C. DECEMFILIS* Kner. A synonym of *CNIDOGLANIS* Gthr.

Silurodon Kner, 305; orthotype *S. HEXANEMA* Kner.

Opsarius Kner, 355; orthotype *LEUCISCUS PARVUS* T. & S. A synonym of *PSEUDORASBORA* Blkr.

907. KNER (1865). *Psalidostoma, eine neue Characinengattung aus dem Weissen Nil*. Sitzb. Akad. Wiss. Wien. L.

RUDOLPH KNER.

Psalidostoma Kner, L, 99; orthotype *P. CAUDIMACULATUM* Kner.

908. LANKESTER (1865). *On the British Species of Cephalaspis and the Scotch Pteraspis*. Rept. Brit. Assn. Adv. Sci. for 1864.

EDWIN RAY LANKESTER.

Scaphaspis Lankester, 58; orthotype *CEPHALASPIS LLOYDI* Ag. (fossil). = *CEPHALASPIS ROSTRATUS* Ag. A synonym of *PTERASPIS* Ag.

909. LEIDY (1865). (*Tomodon*). Smithsonian Contributions.

JOSEPH LEIDY.

Tomodon Leidy, XIV, 102; orthotype *TOMODON HORRIFICUS* Leidy (fossil); originally described as a reptile tooth, hence needlessly replaced by *DIPLO-TOMODON* Leidy, 1868.

910. LIOY (1865). *Sopra alcuni Avanzi di Plagiostomi fossili del Vicentino*, etc. Atti Soc. Ital. Sci. Nat. Milano, VIII.

PAOLO LIOY (1836-).

Uropterina Liroy, VIII, 113; orthotype *U. PLATYRHACHIS* Liroy (fossil).

Alopiopsis Liroy, VIII, 403; orthotype *A. PLEJODON* Leidy (*GALEUS CUVIERI* Ag.) (fossil). A synonym of *PROTOGALEUS* and *SCOLIODON*.

Ptericephalina Liroy, 414; orthotype *CLUPEA LEPTOSTEA* Ag. (fossil). An ally of *SPRATTELLA* Val. (the sprat).

911. MARCK & SCHLÜTER (1865). *Neue Fische und Krebse aus der Kreide von Westphalien*. XV. *Palaeontographica*.

W. VON DER MARCK; AUGUST JOSEPH SCHLÜTER (1836-).

Megapus Schlüter, XV, 275; orthotype *M. GUESTPHALICUS* Schlüter (fossil). A synonym of *CHEIROTHRIX*.

Telepholis von der Marck, XV, 276; orthotype *T. ACROCEPHALUS* Marck (fossil).

Dactylopogon von der Marck, XV, 278; orthotype *D. GRANDIS* Marck (fossil).

Holcolepis von der Marck, XV, 278; orthotype *RIHABDOLEPIS CRETACEUS* Marck (fossil). Replaces *RIHABDOLEPIS*, preoccupied.

Brachyspondylus von der Marck, XV, 283; orthotype *B. CRETACEUS* Marck (fossil).

Dermatoptychus von der Marck, XV, 287; orthotype *D. MACROPHTHALMUS* Marck (fossil). A synonym of *OSMEROIDES* Ag.

Archæogadus von der Marck, XV, 291; orthotype *H. GUESTPHALICUS* Marck (fossil). A synonym of *HALEC* Ag.

912. OWEN (1865). *Description of Portions of a Large Extinct Fish (Stereodus) . . . from the Middle Beds of the Maltese Miocene*.

RICHARD OWEN.

Stereodus Owen, II, 147; orthotype *S. MELITENSIS* Owen (fossil).

913. PETERS (1865). *Ueber eine neue Percoidengattung Plectroperca aus Japan*, etc. Mon. Ber. Akad. Wiss. Berlin.

WILHELM PETERS.

Plectroperca Peters, 121; orthotype *P. BERENDTI* Peters = *P. CHUATSI* Basilewsky. A synonym of *SINIPERCA* Gill.

914. POEY (1865). *Repertorio fisico-natural de la isla de Cuba: Peces Ciegos*. FELIPE POEY Y ALOY.

Stygicola (Gill) Poey, 116; orthotype *LUCIFUGA DENTATUS* Poey.

915. SMITH, JOHN ALEXANDER (1865). *Description of Erpetoichthys, a New Genus of Ganoid Fish from Old Calabar*, etc. Edinburg Roy. Phys. Soc. JOHN ALEXANDER SMITH.

Erpetoichthys Smith, 273; orthotype *CALAMOICHTHYS MALABARICUS* Smith. Name preoccupied; replaced by *CALAMOICHTHYS* Smith.

916. TICKELL (1866). *Description of a Proposed New Genus of the Gadidae*. Journ. Asiat. Soc. Bengal, XXXIV.

S. R. TICKELL.

Asthenurus Tickell, XXXIV, 32; orthotype *A. ATRIPINNIS* Tickell. A synonym of *BREGMACEROS* Thompson.

1866

917. BLANCHARD (1866). *Les poissons des eaux douces de la France*, etc. CHARLES ÉMILE BLANCHARD (1820 1900).

Cyprinopsis Blanchard, 336; orthotype *CYPRINUS CARASSIUS* L. A synonym of *CARASSIUS* Nilsson.

918. BLEEKER (1866). *Systema Balistidorum, Ostracionidorum, Gymnodontidorumque revisum*. Neder. Tijdschr. Dierk., III, 1866, 8-10.

PIETER BLEEKER

- Parabalistes** Bleeker, 10; orthotype *BALISTES CHRYSOSPILUS* Blkr.
Pseudobalistes Bleeker, 11; orthotype *BALISTES FLAVIMARGINATUS* Rüppell.
Pseudomonacanthus Bleeker, 12; orthotype *MONACANTHUS MACRURUS* Blkr.
Paramonacanthus Bleeker, 12; orthotype *MONACANTHUS CURTORHYNCHUS* Blkr.
Acanthaluteres Bleeker, 13; orthotype *MONACANTHUS PERONI* Holland.
Brachaluteres Bleeker, 13; orthotype *ALUTERIUS TROSSULUS* Rich.
Liomonacanthus Bleeker, 13; orthotype *MONACANTHUS PARDALIS* Rüppell. A synonym of *CANTHERINES* Sw.
Pseudaluteres Bleeker, 14; orthotype *ALUTERES NASICORNIS* T. & S. Originally called *PSEUDALUTARIUS* by Bleeker in 1865.
Paraluteres Bleeker, 14; orthotype *ALUTARIUS PRIONURUS* Blkr.
Oxymonacanthus Bleeker, 16; orthotype *O. CHRYSOSPILUS* Blkr. = *BALISTES LONGIROSTRIS* Bl. & Schn.
Trichodiodon Bleeker, 18; orthotype *DIODON PILOSUS* Mitchill. Probably a larval *DIODON*.
Crayracion (Klein) Bleeker, 18; orthotype *C. LAEVISSIMUS EX TERREO RUFESCENS* Klein = *TETRAODON SPENGLERI* Bloch. Probably a synonym of *TETRAODON*, but Bleeker regards it as a species of *OVIDES* as now understood.
Acanthostracion Bleeker, 27; orthotype *OSTRACION QUADRICORNIS* L.
919. BLEEKER (1866). *Sur les espèces d'Exocet de l'Inde archipélagique*. Neder. Tijdschr. Dierk., III, 1866, 105-129.
 PIETER BLEEKER.
Parexocætes Bleeker, III, 126; orthotype *EXOCÆTES MENTO* Cuv. & Val.
920. BLEEKER (1866). *Révision des Hémirhamphes de l'Inde archipélagique*. Neder. Tijdschr. Dierk., III, 1866, 136-170.
 PIETER BLEEKER.
Hemirhamphodon Bleeker, 118; orthotype *HEMIRHAMPHUS PHAIOSOMA* Blkr.
921. BLEEKER (1866). *Description du Narcacion Polleni, espèce inédite des mers de l'île de la Réunion*. Neder. Tijdschr. Dierk., III, 1866, 171-173.
 PIETER BLEEKER.
Narcacion (Klein) Bleeker, III, 171; orthotype *RAJA TORPEDO* L. Equivalent to *TORPEDO* Dum.
922. COSTA (1866). (*Ittiolite*.) Ann. Accad. Aspir. Nat., V.
 GABRIELE ORONZIO COSTA.
Lobodus Costa, V, 81; orthotype *L. PEDEMONTANUS* Costa (fossil).
923. GÜNTHER (1866). *Catalogue of Fishes in the British Museum*. VI.
 ALBERT GÜNTHER.
Hucho Günther, VI, 125; orthotype *SALMO HUCHIO* L. = *HUCHO GERMANORUM* Gthr.
Brachymystax Günther, VI, 162; orthotype *SALMO COREGONOIDES* Pallas.
Luciotrutta Günther, VI, 164; orthotype *SALMO MACKENZIEI* Rich. A synonym of *STENODUS* Rich.
Potamorhaphis Günther, VI, 234; orthotype *BELONE TÆNIATA* Gthr.
Arrhamphus Günther, VI, 276; orthotype *A. SCLEROLEPIS* Gthr.
Fitzroyia Günther, VI, 307; orthotype *LEBIAS MULTIDENTATA* Jenyns.
Characodon Günther, VI, 308; orthotype *C. LATERALIS* Gthr.
Limnurgus Günther, VI, 309; orthotype *L. VARIEGATUS* Gthr. A needless substitute for *GIRARDINICHTHYS* Blkr., called "barbarous".

Jenynsia Günther, VI, 331; orthotype *LEBIAS LINEATA* Jenyns; a synonym of *FITZROYIA*.

Platyæcilus Günther, VI, 350; orthotype *P. MACULATUS* Gthr.

923A. GÜNTHER (1866). *On the Fishes of the States of Central America*, etc. Proc. Zool. Soc. London.

ALBERT GÜNTHER.

Neetroplus Günther, 603; orthotype *N. NEMATOPUS* Gthr.

924. HUXLEY (1866). *British Fossils: Crossopterygian Ganoids*. Mem. Geol. Surv. United Kingdom.

THOMAS HUXLEY (1825-1895).

Eurypoma Huxley, 32; orthotype *MACROPOMA EGERTONI* Ag. (fossil). A synonym of *EURYCORMUS* and of *MACROPOMA*.

925. GUICHENOT (1866). *Le Trigle polyommate, nouveau genre de poissons*, (etc.). *Ichthyologie*. Ann. Soc. Maine-et-Loire, IX.

ALPHONSE GUICHENOT.

Hoplonotus Guichenot, IX, 3; orthotype *TRIGLA POLYOMMATA* Rich. Preoccupied in beetles, 1851; replaced by *PTERYGOTRIGLA* Waite (1899) and later by *OTOHIME* Jordan & Starks (1905).

926. GUICHENOT (1866). *Le Zancle centrognathe, nouveau genre de Chétodons*. Ann. Soc. Maine-et-Loire, IX.

ALPHONSE GUICHENOT.

Gnathocentrum Guichenot, IX, 4; orthotype *G. CENTROGNATHUM* Guich. — *CHÆTODON CORNUTUS* L. A synonym of *ZANCLUS*.

927. GUICHENOT (1866). *L'Argentine leioglosse, nouveau genre de Salmonoides*. Ann. Soc. Maine-et-Loire, IX.

ALPHONSE GUICHENOT.

Glossanodon Guichenot, IX, 9; orthotype *ARGENTINA LEIOGLOSSA* Cuv. & Val.

928. GUICHENOT (1866). *Notice sur un nouveau genre de la famille des Cottoides*, etc. Mém. Soc. Sci. Nat. Cherbourg.

ALPHONSE GUICHENOT.

Agonomalus Guichenot, 252; orthotype *ASPIDOPHALUS PROBOSCIDALIS* Val.

929. KNER (1866). *Neue Fische aus dem Museum der Herren J. Cäsar Godeffroy & Sohn in Hamburg*. Sitzb. Akad. Wiss. Wien, LIV.

RUDOLPH KNER.

Strabo Kner & Steindachner, LIV, 372; orthotype *S. NIGROFASCIATUS* K. & S. A synonym of *MELANOTENIA* Gill.

930. KNER (1866). *Die Fische der bituminösen Schiefer von Raibl in Kärnthen*. Sitzb. Akad. Wiss. Wien, LIII.

RUDOLPH KNER.

Graphiurus Kner, LIII, 155; orthotype *G. CALLOPTERUS* Kner (fossil).

Orthurus Kner, LIII, 163; orthotype *O. STURI* Kner (fossil).

Megalopterus Kner, LIII, 174; orthotype *M. RAIBLIANUS* Kner (fossil)

Peltopterus Kner, LIII, 180; orthotype *P. SPLENDENS* Kner (fossil).

931. NEWBERRY & WORTHEN (1866). *Descriptions of New Species of Vertebrates Mainly from the Subcarboniferous Limestones and Coal Measures of Illinois*. Geol. Surv. Ills., II.

JOHN STRONG NEWBERRY; AMOS H. WORTHEN.

- Antliodus** Newberry & Worthen, II, 33; logotype *A. PARVULUS* Newberry & Worthen. A synonym of *PETALODUS* Owen.
Dactylodus Newberry & Worthen, II, 33; logotype *D. PRINCEPS* Newberry & Worthen (fossil).
Aspidodus Newberry & Worthen, II, 92; logotype *PSEPHODUS CRENULATUS* St. John & Worthen (fossil). A synonym of *PSEPHODUS*.
Sandalodus Newberry & Worthen, II, 102; orthotype *S. ANGUSTUS* Newberry & Worthen. (fossil).
Rinodus Newberry & Worthen, II, 106; orthotype *R. CALCEOLUS* Newberry & Worthen (fossil). A synonym of *PTYCTODUS*.
Trigonodus Newberry & Worthen, II, 111; logotype *T. MAJOR*, Newberry & Worthen (fossil). Apparently a synonym of *PSEPHODUS*.
Drepanacanthus Newberry & Worthen, II, 120 (fossil); orthotype *D. ANCEPS* Newberry & Worthen. A synonym of *PHYSONEMUS*.

932. OWEN (1866). *On a Genus and Species of Sauroid Fish. (Thlattodus suchoides Ow.) from the Kimmeridge Clay of Norfolk*. Geol. Mag.

RICHARD OWEN.

- Thlattodus** Owen, III, 55; orthotype *T. SUCHOIDES* Owen (fossil). A synonym of *CATURUS*.

933. OWEN (1866). *On a Genus and Species of Sauroid Fish (Ditaxiodus impar Ow.) from the Kimmeridge Clay of Culham, Oxfordshire*. Geol. Mag.

RICHARD OWEN.

- Ditaxiodus** Owen, 107; orthotype *D. IMPAR* Owen (fossil). A synonym of *CATURUS*.

934. PETERS (1866). *Mittheilung über Fische, etc.* Mon. Akad. Wiss. Berlin.

WILHELM PETERS.

- Auliscops** Peters, 510; orthotype *A. SPINESCENS* Peters = *AULORHYNCHUS FLAVIDUS*. Gill. A synonym of *AULORHYNCHUS* Gill.
Labracoglossa Peters, 513; orthotype *L. ARGENTEIVENTRIS* Peters.
Nematocentris Peters, 516; orthotype *N. SPLENDIDA* Peters. A synonym of *MELANOTENIA* Gill.

935. PICTET & HUMBERT (1866). *Nouvelles recherches sur les poissons fossiles du Mont Liban*. Arch. Sci. Genève, XXVI.

FRANÇOIS JULES PICTET; A. HUMBERT.

- Cheirothrix** Pictet & Humbert, 51; orthotype *C. LIBANICUS* Pictet & Humbert (fossil). Spelled *CHIROTHRIX* by Woodward.
Solenognathus Pictet & Humbert, 54; orthotype *S. LINEOLATUS* Pictet & Humbert (fossil). Name preoccupied; same as *CHARITOSOMUS* von der Marck, 85.
Opisthopteryx Pictet & Humbert, 78; (misprinted *OPISTOPTERYX*); orthotype *MESOGASTER GRACILIS* Pictet.
Pseudoberyx Pictet & Humbert, 32; logotype *P. SYRIACUS* Pictet & Humbert (fossil).
Aspidopleurus Pictet & Humbert, 107; orthotype *A. CATAPHRACTUS* Pictet & Humbert. A synonym of *PRIONOLEPIS* Egert.

936. PLAYFAIR (1866). *The Fishes of Zanzibar.*

ROBERT PLAYFAIR.

Tripteron Playfair, 42; orthotype *T. ORBIS* Playfair.937. REINHARDT (1866). *Om trende formentligt ubeskrevne Fisk af Characinerne eller Karpelaxens familie* Overs. Dansk. Forh. Kjöbenhavn.

JOHANN THEODOR REINHARDT (1816-1882).

Piabina Reinhardt, 49; orthotype *P. ARGENTEA* Reinh.**Characidium** Reinhardt, 56; orthotype *C. FASCIATUM* Reinh.938. SCHMIDT (1866). *Ueber Thyestes verrucosus . . . silurische Fischreste auf der Insel Oesel.* Verh. Min. Ges. St. Petersburg.

FRIEDRICH SCHMIDT (1832-1908).

Tremataspis Schmidt, I, 233; orthotype *CEPHALASPIS SCHRENKI* Pander (fossil)
Apparently a synonym of *STIGMOLEPIS* Pander.939. SMITH (1866). *Description of Calamoichthys, a New Genus of Ganoid Fish from Old Calabar, etc.* Trans. Roy. Soc. Edinburg. XXIV.

JOHN ALEXANDER SMITH.

Calamoichthys J. A. Smith, V, 654; orthotype *HERPETOICHTHYS CALABARICUS* Smith.
A substitute for *HERPETOICHTHYS* or *ERPETOICHTHYS*, preoccupied in eels.940. STEINDACHNER (1866). (*Richardsonia*.) Sitzb. Akad. Wiss. Wien.

FRANZ STEINDACHNER.

Richardsonia Steindachner, 53; orthotype *ARGENTINA RETROPINNA* Rich. A synonym of *RETROPINNA* Gill.941. STEINDACHNER (1866). *Zur Fischfauna von Port Jackson in Australien.* Sitzb. Akad. Wiss. Wien, LIII.

FRANZ STEINDACHNER.

Schuettea Steindachner, LIII, 449; orthotype *S. SCALARIPINNIS* Steind.**Heterochærops** Steindachner, LIII, 461; orthotype *H. VIRIDIS* Steind942. STEINDACHNER (1866). *Ichthyologischer Bericht ueber eine nach Spanien und Portugal unternommener Reise.* IV. Sitzb. Akad. Wiss. Wien.

FRANZ STEINDACHNER.

Pachychilon Steindachner, LIV, 263; orthotype *SQUALIUS PICTUS* Heckel & Kner943. STEINDACHNER (1866). *Zur Fischfauna Kaschmirs und der benachbarten Landesstreiche.* Verh. Zool. Bot. Ges. Wien, XVI.

FRANZ STEINDACHNER.

Kneria Steindachner, 769; orthotype *K. ANGOLENSIS* Steind.**Ctenopharyngodon** Steindachner, 782; orthotype *C. LATICEPS* Steind.**Schizopygopsis** Steindachner, 786; orthotype *S. STOLICZKÆ* Steind.**Diptychus** Steindachner, 787; orthotype *D. MACULATUS* Steind.**Ptychobarbus** Steindachner, 789; orthotype *P. CONIROSTRIS* Steind944. TROSCHIEL (1866). *Ein Beitrag zur ichthyologischen Fauna der Insel der Grünen Vorgebirges (Cape Verde Islands).* Arch. Naturg

FRANZ HERMANN TROSCHIEL.

Onychognathus Troschel, 231; orthotype *O. CAUTUS* Troschel.945. YOUNG (1866). *On the Affinities of Platysomus and Allied Genera* Quart. Journ. Geol., XXII.

JOHN YOUNG.

Amphicentrum Young, XXII, 306; orthotype *A. GRANULOSUM* Young (fossil). A synonym of *CHEIRODUS*.

Euryosomus Young, XXII, 311; orthotype *E. MACRURUS* Young (fossil). A synonym of *GLOBULODUS*.

Mesolepis Young, XXII, 313; logotype *M. WARDI* Young (fossil).

Cycloptychius Young, 318; orthotype *C. CARBONARIUS* (Huxley) Young (fossil).

946. YOUNG (1866). *Notice of New Genera of Carboniferous Glyptodipterines*. Quart. Journ. Geol. Soc., XXII.

JOHN YOUNG.

Rhizodopsis Young, XXII 596; orthotype *HOLOPTYCHIUS SAUROIDES* Williamson, not of Binney = *RHIZODUS GRANULATUS* (Ag.), fossil.

Dendroptychius (Huxley) Young, XXII, 601; orthotype *HOLOPTYCHIUS SAUROIDES* Binney (fossil). Identical with *STREPSODUS* Young and with page priority.

Strepsodus (Young) XXII, 602; orthotype *HOLOPTYCHIUS SAUROIDES* Binney (fossil).

Rhomboptychius (Huxley) Young, XXII, 604; orthotype (*MEGALICHTHYS INTER-MEDIUS* Woodw.) (fossil). A synonym of *CENTRODUS*.

1867

947. COPE (1867). *Description of a New Genus (Phenacobius teretulus) of Cyprinoid Fishes from Virginia*. Proc. Acad. Nat. Sci. Phila.

EDWARD DRINKER COPE.

Phenacobius Cope, 96; orthotype *P. TERETULUS* Cope.

948. COPE (1867). *On the Distribution of Fresh-water Fishes in the Allegheny Region of Southwestern Virginia*. Journ. Acad. Nat. Sci. Phila.

EDWARD DRINKER COPE.

Hemioplites Cope, 217; orthotype *H. SIMULANS* Cope. An aberrant specimen of *ENNEACANTHUS*.

949. COPE (1867). *Synopsis of the Cyprinidæ of Pennsylvania: Supplement on Some New Species of American and African Fishes*. Trans. Amer. Philos. Soc., XIII.

EDWARD DRINKER COPE.

Photogenis Cope, 378; tautotype *SQUALIUS PHOTGENIS* Cope = *PHOTGENIS LEUCOPS* Cope. *P. SPILOPTERUS*, a species of the group *EROGALA*, has been named as type by Jordan, but the tautotype takes precedence.

Cryptosmilia Cope, XIII, 401; orthotype *C. LUNA* Cope. A synonym of *DREPANE* Cuv. (*ENIXE* Gistel).

Enteromius Cope, XIII, 405; orthotype *E. POTAMOGALIS* Cope.

Sphagomorus Cope, XIII, 407; orthotype *HIPPOGLOSSUS ERUMEI* Cuv. An ally of *PSETTODES* Bennett, but with simple, not barbed, teeth.

950. DAY (1867). *On Some New or Imperfectly Known Fishes of Madras*. Proc. Zool. Soc. London.

FRANCIS DAY.

Gogrius Day, 563; orthotype *PIMELODUS GOGRA* Sykes = *GOGRIUS SYKESI* Day. A synonym of *RITA* Blkr.

951. GÜNTHER (1867). *On the Identity of Alepisaurus (Lowe) with Plagyodus (Steller)*. Ann. Mag. Nat. Hist., XIX.

ALBERT GÜNTHER.

Plagyodus (Steller, in *Pallas*, 1811) Günther, XIX, 185; orthotype **PLAGYODUS** (Steller) *Pallas* = **ALEPISAURUS AESCULAPIUS** Bean. Revival of an old name which may be untenable as mononomial and printed only in the dative case ("PLAGYODONTEM") by its author.

952. GÜNTHER (1867). *Description of Some Little Known Species of Fishes in . . . the British Museum.* Proc. Zool. Soc. London.

ALBERT GÜNTHER.

Champsodon Günther, 102; orthotype **C. VORAX** Gthr.

953. GÜNTHER (1867). *On a New Form of Mudfish from New Zealand.* Ann. Mag. Nat. Hist., XX.

ALBERT GÜNTHER.

Neochanna Günther, X, 305; orthotype **N. APODA** Gthr.

954. GÜNTHER (1867). *Additions to the Knowledge of Australian Reptiles and Fishes.* Ann. Mag. Nat. Hist., XX.

ALBERT GÜNTHER.

Sticharium Günther, XX, 62, orthotype **S. DORSALE** Gthr.

Notograpthus Günther, XX, 63; orthotype **N. GUTTATUS** Gthr.

955. GÜNTHER (1867). *New Fishes from Gaboon and the Gold Coast.* Ann. Nat. Hist.

ALBERT GÜNTHER.

Gymnallabes Günther, XX, 111; orthotype **G. TYPUS** Gthr.

Nannocharax Günther, XX, 112; orthotype **N. FASCIATUS** Gthr.

Xenocharax Günther, XX, 112; orthotype **X. SPILURUS** Gthr.

956. GUICHENOT (1867). *Notice sur le lophiopside, nouveau genre de poisson de la famille de lophioides*, etc. Mem. Soc. Nat. Sci. Cherbourg, XIII.

ALPHONSE GUICHENOT.

Lophiopsides Guichenot, 21; orthotype **LOPHIUS VOMERINUS** Cuv. & Val. Distinguished from **LOPHIUS** by the absence of vomerine teeth; perhaps lost with age.

957. GUICHENOT (1867). *Notice sur le Neosébaste, nouveau genre*, etc. Mem. Soc. Nat. Sci. Cherbourg, XIII.

ALPHONSE GUICHENOT.

Neosebastes Guichenot, XIII, 83; orthotype **N. SCORPENOIDES** Guich.

958. GUICHENOT (1867). *Notice sur le Sériolophe, nouveau genre de poissons de la famille des scambéroïdes*, etc. Mem. Soc. Nat. Sci. Cherbourg, XIII, 90-95.

ALPHONSE GUICHENOT.

Leptolepis (Van Hasselt) Guichenot, 68; orthotype **L. ARGENTUS** Van Hasselt. Name of type only, no definition. Possibly intended for **PAMPUS ARGENTUS**; name preoccupied in fossils.

Seriolophus Guichenot, 90; orthotype **S. CARANGOIDES** Guich. A synonym of **NEMATISTIUS** Gill.

959. GUICHENOT (1867). *Notice sur le Salarichthys nouveau genre de poissons*, etc. Mem. Soc. Nat. Sci. Cherbourg.

ALPHONSE GUICHENOT.

Salarichthys Guichinot, 14; orthotype **SALARIAS VOMERINUS** Cuv. & Val. = **SALARIAS TEXTILIS** Q. & G. (Written **SALARIICHTHYS** by Jordan, 1890.)

960. HUXLEY (1867). (*Fossil Fishes.*) Trans. Royal Irish Society, XXIV. THOMAS HENRY HUXLEY.

Campylopleuron Huxley & Wright, XXIV, 353 (fossil). Probably a synonym of **Ctenodus**.

961. JOHNSON (1867). *Description of a New Genus of Spinacidae Founded on a Shark Obtained at Madeira.* Proc. Zool. Soc. London.

JAMES YATE JOHNSON.

Machephilus Johnson, 713; orthotype **M. DUMERILI** Johnson = **SQUALUS SQUAMOSUS** Bonnaterre. A synonym of **LEPIDORHINUS** Bon.

962. KNER (1867). *Neuer Beitrag zur Kenntniss der fossilen Fische von Comen bei Görz.* LVI. Sitzb. Akad. Wiss. Wien.

RUDOLF KNER.

Hemisaurida Kner, LVI, 172; orthotype **H. NEOCOMIENSIS** Kner (fossil).

Hemirhynchus Kner, LVI, 182; logotype **H. HECKELI** Kner (fossil). A synonym of **BELONOSTOMUS** Ag.

963. KNER (1867). *Nachtrag zu den fossilen Fischen von Raibl.* Sitzb. Akad. Wiss. Wien, LV.

RUDOLF KNER.

Pterygopterus Kner, LV, 722; orthotype **P. APUS** Kner (fossil). Probably a synonym of **THORACOPTERUS**.

964. KNER (1867). (*Teleosaurus.*) Sitzb. Akad. Wiss. Wien, LVI.

RUDOLF KNER.

Teleosaurus Kner, LVI, 905; orthotype **T. TENUSTRIATUS** Kner (fossil). A synonym of **SAURORHYNCHUS**.

965. KNER (1867). (*Scarostoma.*) Sitzb. Akad. Wiss. Wien.

RUDOLF KNER.

Scarostoma Kner, LVI, 715; orthotype **S. INSIGNE** Kner. An ally of **OPLEGNATHUS** Rich., perhaps generically distinct.

966. KREFFT (1867). *Descriptions of Some New Australian Fresh-water Fishes.* Proc. Zool. Soc. London.

GERARD KREFFT.

Mionorus Krefft, 943; orthotype **M. LUNATUS** Krefft (scales 30). An ally of **APOGON** (AMIA).

967. LANKESTER (1867). *On Didymaspis, a New Genus of Cephalaspidian Fishes.* Geol. Mag., IV.

EDWIN RAY LANKESTER.

Didymaspis Lankester, IV, 152; orthotype **D. GRINDROBI** Lank. (fossil).

968. OWEN (1867). (*Dittodus*, etc.) Trans. Odontograph Soc. London, V.

RICHARD OWEN.

Dittodus Owen, V, 325; logotype **DITTODUS DIVERGENS** Owen (fossil). Probably founded on teeth of **ORTHACANTHUS**.

Mitrodus Owen, V, 338; orthotype *M. QUADRICORNIS* Owen (fossil). A synonym of *GYRACANTHUS* Ag.

Ganacrodus Owen, V, 340; orthotype *G. HASTULA* Owen (fossil). Probably identical with *ELONICHTHYS*.

Ageleodus Owen, V, 340; orthotype *A. DIADEMA* Owen (fossil). Regarded as identical with *CALLOPRISTODUS* Traquair, 1888, and of earlier date.

Ochlodus Owen, V, 346; orthotype *O. CRASSUS* Owen (fossil). Probably a synonym of *DICRANODUS* and *ORTHACANTHUS*.

Ganolodus Owen, V, 354; logotype *G. CRAGGESI* Owen (fossil). A synonym of *RHIZODOPSIS*.

Aganodus Owen, V, 359; logotype *A. APICALIS* Owen (fossil). A synonym of *ORTHACANTHUS* (*DICRANODUS*).

Pternodus Owen, V, 363; orthotype *P. PRODUCTUS* Owen (fossil). A synonym of *ORTHACANTHUS* (*DICRANODUS*).

Sagenodus Owen, V, 365; orthotype *S. INEQUALIS* Owen (fossil).

Characodus Owen, V, 366; logotype *C. CONFERTUS* Owen (fossil). A synonym of *RHIZODOPSIS*, not *CHARACODON* Gthr., 1866, not *CHARACODUS* (Ag.) Davis, 1883.

Gastrodus Owen, 370; orthotype *G. PRÆPOSITUS* Owen (fossil). A synonym of *RHIZODOPSIS*.

969. POEY (1867). *Revista de los peces descritos por Poey*. In Repertorio Físico-Natural de la Isla de Cuba.

FELIPE POEY Y ALOY.

Mullhypeneus Poey, II, 160; orthotype *UPENEUS FLAVOVITTATUS* Poey. A section under *UPENEUS* Cuv.

970. POEY (1867). *Monografía de las Morenas Cubanas*. Repertorio Físico-Natural de la Isla de Cuba, II.

FELIPE POEY Y ALOY.

Macrodonophis Poey, II, 251; orthotype *M. MORDAX* Poey. A synonym of *CROTALOPSIS* Kaup.

Uranichthys Poey, II, 256; logotype *MURENA HAVANNENSIS* Bl. & Schn. A synonym of *OPHICHTHUS* Ahl.

Pythonichthys Poey, II, 265; orthotype *P. SANGUINEUS* Poey.

971. QUENSTEDT (1867). *Handbuch der Petrefacten*.

FRIEDRICH AUGUST VON QUENSTEDT.

Cyclospondylus Quenstedt, Ed. 2, 260; orthotype *THIRISSOPS MICROPODIUS* Ag. (fossil). A synonym of *EUTHYONOTUS*.

972. SAUVAGE (1867). *Catalogue des poissons des formations secondaires du Boulonnais*.

HENRI ÉMILE SAUVAGE (1844-).

"*Eulepidotæ*" Sauvage, 20; a plural term applied to typical species of *LEPIDOTES*. Not a generic name.

Curtodus Sauvage, II, 53; logotype *C. CORALLINUS* Sauvage (fossil).

Auluxacanthus Sauvage, II 63; orthotype *A. DUTERTREI* Sauvage (fossil). A synonym of *ISCHYDODUS* Egert.

973 STEINDACHNER (1867). *Ueber einige neue und seltene Meeresfische aus China*. Sitzb. Akad. Wiss. Wien, LV.

FRANZ STEINDACHNER.

Paramonacanthus Steindachner, LV, 591; orthotype **MONACANTHUS KNERI** Steind.
Tæniolabrus Steindachner, LV, 713; orthotype **T. FILAMENTOSUS** Steind. A synonym of **TRICHONOTUS**.

974. STEINDACHNER (1867). *Ueber einige Fische aus dem Fitzroy-Flusse bei Rockhampton in Ost-Australien*. Sitzb. Akad. Wiss. Wien, LV.

FRANZ STEINDACHNER.

Lepidoblennius Steindachner, LV, 11; orthotype **L. HAPLODACTYLUS** Steind.
Neosilurus Steindachner, LV, 14; orthotype **N. HYRTLII** Steind.

975. STEINDACHNER (1867). *Ichthyologische Notizen: Ueber eine neue Gattung und Art der Gruppe, Trypauchenina*. Sitzb. Akad. Wiss. Wien, LV, 1867.

FRANZ STEINDACHNER.

Ctenotrypauchen, Steindachner, LV, 530; orthotype **C. CHINENSIS** Steind. A synonym of **TRYPAUCHENICHTHYS** Blkr.

1868

976. BLEEKER (1868). *Troisième notice sur la faune ichthyologique de l'île d'Obi*. Versl. Akad. Amsterdam (2), II, 1868, 275.

PIETER BLEEKER.

Valenciennæa Bleeker, 288; haplotype **ELEOTRIS HASSELTII** Blkr. (**ELEOTRIS STRIGATA** Cuv. & Val. named in a later paper.) This is the earlier and therefore the proper form of this name, later written **VALENCIENNESIA**).

977. BLEEKER (1868). *Cinquième notice sur la faune ichthyologique de Solor*. Versl. Akad. Amsterdam, II.

Valenciennesia Bleeker, 275; orthotype **ELEOTRIS STRIGATA** Cuv. & Val. Earlier written **VALENCIENNEA** by Bleeker. (See No. 1115, p. 371.)

978. BLEEKER (1868). *Notice sur la faune ichthyologique de l'île de Waigiou*. Versl. Akad. Amsterdam, II.

PIETER BLEEKER.

Tetragonopterus (Klein) Bleeker, 300; orthotype (after Klein) **CHÆTODON CAPISTRATUS** L. A synonym of **CHÆTODON**.

979. BLEEKER (1868). *Description de trois espèces inédites de Chromidoïdes de Madagascar*. Versl. Akad. Amsterdam (2), II, 1868, 307-314.

PIETER BLEEKER.

Paratilapia Bleeker, 308; orthotype **P. POLLENI** Blkr.

Paretroplus Bleeker, 313; orthotype **P. DAMII** Blkr.

980. BLEEKER (1868). *Description de trois espèces inédites des poissons des îles d'Amboine et de Woigiou*. Versl. Akad. Amsterdam, II.

PIETER BLEEKER.

Heteroconger Bleeker, II, 332; orthotype **H. POLYZONA** Blkr., 400.

981. BURMEISTER (1868). *Petromyzon macrostomus, description de una nueva especie de pez*. Anales Mus. Pub. Buenos Ayres, I.

HERMANN CARL CONRAD BURMEISTER (1807-1892).

Exomegas Burmeister, I, 36; orthotype **PETROMYZON MACROSTOMUS** Burmeister.

982. CAPELLO (1868). *Descrição de dos peixes novos provenientes dos mares de Portugal*, etc. Journ. Sci. Math., etc., Lisboa.

FELIX DE BRITO CAPELLO.

Pseudotriakis Capello, 316; orthotype *P. MICRODON* Capello. Also written *PSEUDOTRIACIS*.

983. CAPELLO (1868). *Descrição de dos peixes novos provenientes dos mares Lias of Lyme Regis*. Quart. Journ. Geol. Soc., XXIV.

FELIX DE BRITO CAPELLO.

Osteorachis Egerton, XXIV, 500; orthotype *O. MACROCEPHALUS* Egert. (fossil). *Isocolum* Egerton, XXIV, 501; orthotype *I. GRANULATUM* Egert. (fossil). A synonym of *OSTEORACHIS*.

Eulepidotus Egerton, XXIV, 505; orthotype *DAPEDIUS FIMBRIATUS* Ag. (fossil). Unnecessarily "withdrawn" by Egerton and replaced by *HETEROLEPIDOTUS*, 1872, on account of the name "*EULEPIDOTÆ*" applied to typical species of *LEPIDOTES* by Sauvage, 1867.

984. DAY (1868). *On Some New Fishes from Madras*. Proc. Zool. Soc. London. FRANCIS DAY.

Priacanthichthys Day, 193; orthotype *P. MADERASPATENSIS* Day = *EPINEPHELUS LATIFACIATUS* T. & S. A synonym of *EPINEPHELUS*.

984A. GEINITZ (1868). *Die fossilen Fischschuppen aus der Planerkolke in Strehlen*. Jahresber. Ges. Natur- u. Heilkunde Dresden.

HANS BRUNO GEINITZ.

(Reviewed by T. D. A. Cockerell, *American Naturalist*, January, 1917.)

In addition to his own generic names, Geinitz quotes from Dr. Steinla's unpublished *Katalog*, in lit. the definitions, a number of generic names proposed for scales of Cretaceous fishes. For most of these no type is assigned, and most of them appear from Geinitz' account to fall into the rank of synonyms.

Perigrammatolepis (Steinla) Geinitz, 39; orthotype *SALMO LEWESIENSIS* Mantell. "Es ist dies normale Form für *OSMEROIDES LEWESIENSIS*, welche den Abbildungen bei Agassiz am nächsten entspricht." From this I infer that *LEWESIENSIS* should be considered as type, but Geinitz seems to place *PERIGRAMMATOLEPIS* in the synonymy of his *CYCLOLEPIS* (= *AUOLEPIS*).

Credemnolepis (Steinla) Geinitz, 39; orthotype not stated; name only. Apparently defined on page 48 as *CODONOLEPIS*. Said to be a synonym of *CYCLOLEPIS* Geinitz (*AUOLEPIS*).

Kymatolepis (Steinla) Geinitz, 39; orthotype named *K. GEINITZI* by Cockerell (1919). *Cyclolepis* Geinitz, 39; orthotype *C. AGASSIZI* Geinitz (fossil). (Scales, like those of *SALMO*.)

Aspidolepis Geinitz, 40; orthotype *A. STEINLA* Geinitz (fossil). (Scales, similar to those of *PORONOTUS*.)

Dypterolepis (Steinla) Geinitz, 40; orthotype not named. Said to contain part of the species of *LEPTOLEPIS* Ag. Apparently a synonym of *HOLCOLEPIS*.

Kymatopetalolepis (Steinla) Geinitz, 40; orthotype not named. Apparently *SALMO LEWESIENSIS* Mantell. If so, a synonym of *HOLCOLEPIS*.

Micropetalolepis (Steinla) Geinitz, 40; orthotype not named. Apparently founded on a scale of *SALMO LEWESIENSIS* Mantell. If so, a synonym of *HOLCOLEPIS*.

Leptogrammatolepis (Steinla) Geinitz, 40; orthotype not named. Apparently a scale of *SALMO LEWESIENSIS*. If so, a synonym of *HOLCOLEPIS*.

- Petalolepis** (Steinla) Geinitz, 42; orthotype *OSMEROIDES DIVARICATUS* Geinitz. Apparently a synonym of *HOLCOLEPIS*.
- Mixogrammatolepis** (Steinla) Geinitz, 43; orthotype a Cretaceous scale of *CLADOCYCLUS STREHLENSIS* Geinitz (*BERYX ORNATUS* Geinitz), regarded as a synonym of *CLADOCYCLUS*. But this must be an error, as the South American genus *CLADOCYCLUS* is quite distinct from these forms found in the British Chalk.
- Helirolepis** (Steinla) Geinitz, 43; orthotype Cretaceous scale of "*CLADOCYCLUS*."
- Oolepis** (Steinla) Geinitz 43; orthotype a Cretaceous scale of "*CLADOCYCLUS*."
- Coinolepis** (Steinla) Geinitz, 43; orthotype a Cretaceous scale of "*CLADOCYCLUS*."
- Polypterolespis** (Steinla) Geinitz, 43; orthotype a Cretaceous scale of "*CLADOCYCLUS*."
- Ptychrolepis** (Steinla) Geinitz, 43; orthotype a Cretaceous scale of "*CLADOCYCLUS*."
- Pterogrammatolepis** (Steinla) Geinitz, 43; orthotype a Cretaceous scale of "*CLADOCYCLUS*."
- Agrammatolepis** (Steinla) Geinitz, 43; orthotype a Cretaceous scale (misspelled *ACRAMMATOLEPIS*). Apparently a synonym of *HEMICYCLUS* Geinitz.
- Crommiolepis** (Steinla) Geinitz, 43; orthotype Cretaceous scales referred to *CLADOCYCLUS STREHLENSIS* Geinitz. "Eine Anzahl kleiner Schuppen von denen ein Theil jedenfalls an *CL. STREHLENSIS* gehört. On the rest of these scales Geinitz founds his new genus *HEMICYCLUS*. The type of *CLADOCYCLUS* (*C. GARDNERI* Ag.) is a South American *OSTEOGLOSSID*, and none of these fishes of the German Chalk seems related to it.
- Hemicyclus** Geinitz, 44; orthotype *CLADOCYCLUS STREHLENSIS* Geinitz, in part (fossil scales).
- Prionolepis** (Steinla) Geinitz, 45; orthotype *ZEUS LEWESIENSIS* Mantell = *BERYX ORNATUS* Ag. Cretaceous scales. Apparently a synonym of *HOPLOPTERYX* Ag.
- Goniolepis** (Steinla) Geinitz, 45; orthotype Cretaceous scales. (*HOPLOPTERYX*?)
- Hemigonolepis** (Steinla) Geinitz, 45; orthotype Cretaceous scales. (*HOPLOPTERYX*?)
- Hemicyclolepis** (Steinla) Geinitz, 45; orthotype Cretaceous scales. (*HOPLOPTERYX*?)
- Lophoprionolepis** (Steinla) Geinitz, 47; orthotype *AMIA LEWESIENSIS* Mantell = *MACROPOMA MANTELLI* Ag., orthotype Cretaceous scales. A synonym of *MACROPOMA* Ag.
- Acrogrammatolepis** Geinitz, 47; orthotype *A. STEINLAI* Geinitz (fossil).
- Hemilampronites** Geinitz, 48; orthotype *H. STEINLAI* Geinitz (fossil). (Scales, similar to those of *HYPORHAMPHUS*.)

The following additional names for Cretaceous scales are also quoted, but I have at present no further data for them:

- Psygmatolepis** (Steinla) Geinitz, 40; orthotype Cretaceous scales. Misspelled on plate.
- Leptogrammatolepis** (Steinla) Geinitz, 40; orthotype Cretaceous scales.
- Microgrammatolepis** (Steinla) Geinitz, 40; orthotype Cretaceous scales.
- Codonolepis** (Steinla), 48; orthotype not named. Spelled *CREDEMNOLEPIS* on page 40. A synonym of *CYCLOLEPIS*.

- Osteochilus** Günther, VII, 40; logotype *ROHITA MELANOPLEURA* Blkr.
Barynotus Günther, VII, 61; logotype *B. LAGENSIS* Gthr.
Gymnocypris Günther, VII, 169; orthotype *G. DOBULA* Gthr.
Megarasbora Günther, VII, 198; orthotype *CYPRINUS ELANGA* Ham.
Aphyocypris Günther, VII, 201; orthotype *A. CHINENSIS* Gthr.
Xenocypris Günther, VII, 205; orthotype *X. ARGENTEA* Gthr.
Mystacoleucus Günther, VII, 206; orthotype *SYSTEMUS PADANGENSIS* Blkr.
Pteropsarion Günther, VII, 284; orthotype *BARILIUS BAKERI* Day.
Opsaridium (Peters) Günther, VII, 286; orthotype *O. ZAMBEZENSE* Peters (MS.).
 A synonym of *BARILIUS* Ham.
Bola Günther, 293; tautotype *CYPRINUS BOLA* Ham. = *BOLA GOHA* Gthr. Name preoccupied by *BOLA* Ham.; replaced by *RAJAMAS* Jordan, 1919. "*RAJAMAS*" is the angler's name for the type-species in India.
Schacra Günther, VII, 294; orthotype *CYPRINUS SHACRA* Ham. Same as *SHACRA* Blkr.
Squaliobarbus Günther, VII, 297; orthotype *LEUCISCUS CURRICULUS* Rich.
Ochetobius Günther, VII, 297; orthotype *OPSARIUS ELONGATUS* Kner.
Eustira Günther, VII, 331; orthotype *E. CEYLONENSIS* Gthr.
Securicula Günther, VI, 332; logotype *CYPRINUS GORA* Ham. A synonym of *SALMOSTOMA* Sw.
Cachius Günther, VII, 338; orthotype *CYPRINUS CACHIUS* Ham. A synonym of *CHELA* Ham. as restricted by Bleeker, 1863.
Oreonectes Günther, VII, 369; orthotype *O. PLATYCEPHALUS* Gthr.
Cetengraulis Günther, VII, 383; logotype *ENGRAULIS EDENTULUS* Cuv.
Pterengraulis Günther, VII, 384; orthotype *CLUPEA ATERINOIDES* L.
Heterothrissa Günther, VII, 385; orthotype *ENGRAULIS BREVICEPS* Cantor.
Lycengraulis Günther, VII, 385; logotype *ENGRAULIS GROSSIDENS* Cuv.
Lycothrissa Günther, VII, 385; orthotype *ENGRAULIS CROCODILUS* Blkr.
Telara Günther, VII, 385; tautotype *CLUPEA TELARA* Ham. A synonym of *SETIPINNA* Sw.
Pellonula Günther, VII, 452; orthotype *P. VORAX* Gthr.
Chirocentrodon Günther, VII, 463; orthotype *C. TENIATUS* Gthr.
Xenomystus Günther, VII, 481; orthotype *NOTOPTERUS NIGRI* Gthr.
Graodus Günther, VII, 485; orthotype *G. NIGROTAENIATUS* Gthr. A synonym of *ALBURNOPS* Grd. (the teeth lost).
- 986 GÜNTHER (1868). *Report on a Collection of Fishes Made at St. Helena by J. C. Melliss, Esq.* Proc. Zool. Soc. London.
 ALBERT GÜNTHER.
- Holanthias** Günther, 226; *ANTHIAS FRONTICINCTUS* Gthr.
- 987 GÜNTHER (1868). *Descriptions of Fresh-water Fishes from Surinam and Brazil.* Proc. Zool. Soc. London.
 ALBERT GÜNTHER.
- Hypoptopoma** Günther, 234; orthotype *H. THORACATUM* Gthr.
Aphyocharax Günther, 245; orthotype *A. PUSILLUS* Gthr.
988. GÜNTHER (1868). *Additions to the Ichthyological Fauna of Zanzibar.* Ann. Mag. Nat. Hist.
 ALBERT GÜNTHER.
- Tholichthys** Günther I, 457; orthotype *T. OSSEUS* Gthr. Larva of *CHAETODON*

989. GUICHENOT (1868). *Index generum et specierum anthiadidorum*, etc. Ann. Soc. Maine-et-Loire.

ALPHONSE GUICHENOT.

Paranthias Guichenot, X, 87; orthotype *SERRANUS CREOLUS* Cuv. & Val. = *S. FURCIFER* Cuv. & Val. Replaces *BRACHYRHINUS* Gill.

990. HANCOCK & ATTHEY (1868). *Notes on the Remains of Some Reptiles and Fishes from the Shales of the Northumberland Coal-fields*. Trans. Nat. Hist. Soc. Northumberland.

ALBANY HANCOCK (1806-1873); T. ATTHEY.

Acanthodopsis Hancock & Atthey, I, 364; orthotype *A. WARDI* Hancock & Atthey (fossil).

991. KNER (1868). *Ueber einige Fische aus dem Museum . . . Godeffroy in Hamburg*. Sitzb. Akad. Wiss. Wien.

RUDOLPH KNER.

Anomalops Kner, LVIII, 26; orthotype *A. GRÆFFEI* Kner.

Sparopsis Kner, LVIII, 27; orthotype *S. LATIFRONS* Kner. A synonym of *APRION* Cuv.

Micropus Kner, 23; orthotype *MICROPTERYX POLYCENTRUS* Kner. Name four times preoccupied; replaced by *ORQUETA* Jordan.

Bunocottus Kner, LVIII, 28; orthotype *B. APUS* Kner.

Orthostomus Kner, LVIII, 29; orthotype *O. AMELYOPINUS* Kner.

Opisthocentrus Kner, 49; orthotype *O. QUINQUEMACULATUS* Kner = *OPHIDIUM OCELLATUM* Tiles.

Urocentrus Kner, LVIII, 51; orthotype *U. PICTUS* Kner. A synonym of *PHOLIS Scopoli*.

992. KNER (1868). *Ueber Conchipoma godiforme . . . aus dem Rothliegenden (der Untern Dyas) von Lebach bei Saarbrücken in Rheinpreussen*. Sitzb. Akad. Wiss. Wien.

RUDOLPH KNER.

Conchopoma Kner, LVII, 279; orthotype *C. GADIFORME* Kner (fossil).

993. LEIDY (1868). *Remarks on Conosaurus of Gibbes*. Proc. Acad. Nat. Sci. Phila. JOSEPH LEIDY.

Conosaurops Leidy, 202; orthotype *CONOSAURUS BOWMANI* Gibbes (fossil). Substitute for *CONOSAURUS* Gibbes; regarded as preoccupied by *CONIOSAURUS*, a reptile.

Diplotomodon Leidy, 202; orthotype *TOMODON HORRIFICUS* Leidy. A substitute for *TOMODON* Leidy, preoccupied.

- 993A. VON DER MARCK (1868). (*Holcolepis*.) *Palæontographica*.

W. VON DER MARCK.

Holcolepis von der Marck, 278; orthotype *RHABDOLEPIS CRETACEUS* von der Marck. Name a substitute for *RHABDOLEPIS* Marck, 1863, preoccupied.

994. MARTENS (1868). *Ueber einige ostasiatische Süßwasserthiere*. Arch. Nat. XXIV.

EDUARD VON MARTENS.

Octonema Martens, about 60; orthotype *HOMALOPTERA ROTUNDICAUDA* Martens. Name preoccupied, replaced by *LEFUA* Herzenstein.

995. PETERS (1868). *Naturwissenschaftliche Reise nach Mossambique*. Zoologie. WILHELM PETERS.

Nothobranchius Peters, 60; orthotype **CYPRINODON ORTHIONOTUS** Peters.

Belonichthys Peters, 108; orthotype **B. ZAMBEZENSIS** Peters.

996. PETERS (1868). *Ueber eine neue Gattung der Flederthiere (Peronymus) und ueber neue Gattungen und Arten der Fische.* Mon. Akad. Wiss. Berlin.

WILHELM PETERS.

Lycocyprinus Peters, 145; orthotype **PÆCILIA SENFASCIATA** Peters = **HAPLOCHILUS INFRASFASIATUS** Gthr.

997. PETERS (1868). *Ueber die von Herrn Dr. F. Jäger in dem ostindischen gesammelten Fische.* Mon. Akad. Wiss. Berlin.

WILHELM PETERS.

Enchelyurus Peters, 268; orthotype **E. FLAVIPES** Peters.

998. PETERS (1868). *Ueber eine von dem Baron Carl von der Decken entdeckte neue Gattungen von Welsen . . . aus Ostafrika.* Mon. Akad. Wiss. Berlin.

WILHELM PETERS.

Chiloglanis Peters, 599; orthotype **C. DECKENI** Peters.

999. POEY (1868). *Synopsis piscium cubensium, etc.* In Repertorio Fisico-Natural de la Isla de Cuba, II.

FELIPE POEY Y ALOY.

Promicrops Poey, 287; orthotype **SERRANUS GUAZA** Poey.

Gramma Poey, 296; orthotype **G. LORETO** Poey. Not **GRAMMIA** Rambeau, 1866, a genus of Lepidoptera.

Tropidinius (Gill) Poey, 296; orthotype **MESOPRION ARNILLO** Poey = **APSILUS DENTATUS** Guich.

Brachygenys (Scudder) Poey, 310; orthotype **HÆMULON TENIATUM** Poey.

1000. SCHIÖDTE (1868). *Om stillings udvikling hos flynder fiskene.* Nat. Tid., V. JØRGEN MATTHIAS CHRISTIAN SCHIÖDTE (1815-1884).

Bascanius Schiödt, V, 269; orthotype **B. TÆDIFER** Schiödt. A larval flounder, probably young of **PLATOPHYRUS** or **SYMPHYRUS**; name preoccupied as **BASCANTION**.

1869

1001. BLEEKER (1869). *Description de deux espèces inédites d'Alticus, de Madagascar.* Versl. Akad. Amsterdam.

PIETER BLEEKER.

Alticus (Commerson) Bleeker, 234; orthotype **A. SALTATORIUS** Commerson. Same as **RUPISCARTES** Sw., and of earlier date if Commerson's non-binomial names are accepted.

1002. BLEEKER (1869). *Neuvième notice sur la faune ichthyologique du Japon.* Versl. Akad. Amsterdam (2), III, 1869, 237-259.

PIETER BLEEKER.

Pseudopriacanthus Bleeker, 241; orthotype **PRIACANTHUS NIPHONIUS** Cuv. & Val.

Sarcocheilichthys Bleeker, 252; orthotype **LEUCISCUS VARIEGATUS** T. & S.

1003. BOCOURT (1869). *Descriptions de quelques reptiles et poissons nouveaux appartenant à la faune tropicale de l'Amérique.* Nouv. Arch. Mus. Hist. Nat. Paris.

FIRMIN N. BOCOURT (1819-)

Paralonchurus Bocourt, V, 21; orthotype P. **PETERSI** Bocourt.

Polycirrhus Bocourt, V, 22; orthotype P. **DUMERILI** Bocourt. Name preoccupied in worms; replaced by **POLYCLEMUS** Berg, 1895.

1004. **BRANDT** (1869). *Einige Worte ueber die europäisch-asiatisch Störarten.* Mélanges Biologiques, VII. Bull. Acad. Sci. St. Petersburg.

JOHANN FRIEDRICH BRANDT.

Schipa Brandt, VII, 113; orthotype **ACIPENSER SCHYPA** Eichw. = **A. NUDIVENTRIS** Lovetzky. A synonym of **ANTACEUS** Heckel & Fitzinger.

Sterledus Brandt, VII, 113; orthotype **ACIPENSER RUTHENUS** L. Apparently a variant spelling of **STERLETUS** Heckel & Fitzinger, not a new name and not **STERLETUS** Raf. 1820.

1005. **COPE** (1869). *Description of Some Extinct Fishes Previously Unknown.* Proc. Boston Soc. Nat. Hist.

EDWARD DRINKER COPE.

Phacodus Cope, XII, 311; orthotype P. **IRREGULARIS** Cope (fossil). Name preoccupied; replaced by **CROMMYODUS** Cope, 1870.

Leptomylus Cope, XII, 313; orthotype L. **DENSUS** (fossil).

Plinthicus Cope, XII, 316; orthotype P. **STENODON** Cope (fossil). An ally of **AËTOBATUS**.

1006. **DAY** (1869). *Remarks on Some Fishes in the Calcutta Museum.* II. Proc. Zool. Soc. London.

FRANCIS DAY.

Mayoa Day, 553; orthotype M. **MODESTA** Day.

1007. **DYBOWSKI** (1869).^{*} *Vorläufige Mittheilungen über die Fischfauna des Onon-Flusses und die Ingoda in Transbaikalien.* Verh. Zool. Bot. Ges. Wien, XIX, 945-948.

BENEDIKT IVAN DYBOWSKI.

Gobiobarbus Dybowski, XIX, 951; orthotype **CYPRINUS LABEO** Pallas. A synonym of **HEMIBARBUS** Blkr.

Micraspius Dybowski, XIX, 953; orthotype M. **MIANOWSKI** Dybowski.

Pseudaspis Dybowski, XIX, 953; orthotype **CYPRINUS LEPTOCEPHALUS** Pallas.

Ladislavia Dybowski, XIX, 954; orthotype L. **TACZANOWSKII** Dybowski.

1008. **GERVAIS** (1869). *Paléontologie Générale.*

FRANÇOIS LOUIS PAUL GERVAIS (1816-1879).

Dipristis Gervais, 240; orthotype D. **CHIMÆROIDES** Gervais (fossil). Not **DIPRISTIS** Marsh of the same date, also a **CHIMÆROID** fragment.

1009. **GÜNTHER** (1869). *Account of the Fishes of the States of Central America, Based on Collections Made by Capt. J. M. Dow, F. Godman and V. Salvin.* Trans. Zool Soc. London.

ALBERT GÜNTHER.

Megalobrycon Günther, 423; orthotype M. **CEPHALUS** Gthr. A synonym of **BRYCON** M. & T.

1010. **GUICHENOT** (1869). *Notice sur quelques poissons inédits de Madagascar et de Chine.* Nouv. Arch. Mus. Paris., V.

ALPHONSE GUICHENOT.

Paragonus Guichenot, 202; orthotype *P. STURIOIDES* Guich. **PARAGONUS** Gill, 1861, and **PARAGONUS** Guich., 1869, seem both to be synonyms of *PODOTHECUS* Gill.

1011. MACDONALD (1869). *On . . . a New Genus of Mugilidæ Inhabiting the Fresh Waters of Viti Levu of the Feejee Group*, etc. Proc. Zool. Soc. London.

JOHN DENIS MACDONALD.

Gonostomyxus Macdonald, 38; orthotype *G. LOALOA* Macdonald.

1011A. MASON (1869). (*Acrodontosaurus*.) Quart. Journ. Geol., XXV.
J. W. MASON.

Acrodontosaurus Mason, XXV, 444; orthotype *A. GARDNERI* Mason (fossil). A synonym of *PACHYRHIZODUS*.

1012. OWEN (1869). *Notes on Two Ichthyodorulites Hitherto Undescribed*.
RICHARD OWEN.

Lepracanthus Owen, VI, 481; orthotype *L. COLEI* (Egert.) Owen (fossil).

1013. STEINDACHNER (1869). *Ichthyologische Notizen*. VIII. Sitzb. Akad. Wiss. Wien, LX.

FRANZ STEINDACHNER.

Hæmulopsis Steindachner, 60; logotype *HÆMULON CORVINÆFORME* Steind. A synonym of *BRACHYDEUTERUS* Gill.

1014. STEINDACHNER (1869). *Ichthyologische Notizen*. IX. *Ueber eine neue Gattung und Art der Cyprinoiden de China*. Sitzb. Akad. Wiss. Wien, LX.

FRANZ STEINDACHNER.

Abramocephalus Steindachner, LX, 302; orthotype *A. MICROLEPIS* Steind. A synonym of *HYPOPTHALMICHTHYS* Blkr.

1870

1015. BLEEKER (1870). *Atlas des Indes Orientales Néerlandaises . . .* VII. *Pleuronectes*, etc.

PIETER BLEEKER.

Rhinoplagusia Bleeker, 27; orthotype *PLAGUSIA JAPONICA* T. & S. Replaces *USINOSITA* Jordan & Snyder, 1901

1016. BLEEKER (1870). *Mededeeling omtrent eenige nieuwe vischsoorten van China*. Versl. Akad. Amsterdam (2), IV, 1870, 251-253.

PIETER BLEEKER.

Acanthorhodeus Bleeker, IV, 253; orthotype *A. MACROITERUS* Blkr.

Pseudobrama Bleeker, IV, 253; logotype *P. DABRYI* Blkr.

Saurogobio Bleeker, IV, 253; orthotype *S. DUMERILI* Blkr.

Rhinogobio Bleeker, IV, 253; orthotype *R. TYPUS* Blkr.

Luciobrama Bleeker, IV, 253; orthotype *L. TYPUS* Blkr.

Leptobotia Bleeker, IV, 256; orthotype *L. ELONGATA* Blkr.

1017 COPE (1870). *Partial Synopsis of the Fresh-water Fishes of North Carolina*. Proc. Amer. Philos. Soc., 1870, XI, 448-495.

EDWARD DRINKER COPE.

Hypohomus Cope, XI, 449; orthotype *H. AURANTIACUS* Cope.

Labidesthes Cope, XI, 455; orthotype *CHIROSTOMA SICCULUM* Cope.

Hemitremia Cope, XI, 462; orthotype *H. VITTATA* Cope, later called *LEUCISCUS FLAMMEUS* Jordan, the name *VITTATUS* being preoccupied in *LEUCISCUS*, to which genus the species was referred.

Placopharynx Cope, XI, 467; orthotype *P. CARINATUS* Cope.

1018. COPE (1870). *Observations on the Fishes of the Tertiary Shales of Green River, Wyoming Territory.* Proc. Amer. Philos. Soc., XI.

EDWARD DRINKER COPE.

Asineops Cope, XI, 381; orthotype *A. SQUAMIFRONS* Cope (fossil).

Erismatopterus Cope, XI, 427; orthotype *E. RICKSECKERI* Cope (fossil).

1019. COPE (1870). *Contribution to the Ichthyology of the Morañon.* Proc. Amer. Philos. Soc. 1870, 559-701.

EDWARD DRINKER COPE.

Stethaprion Cope, 562; orthotype *S. ERYTHROPS* Cope.

Plethodectes Cope, 563; orthotype *P. ERYTHRURUS* Cope. A synonym of *CHALCEUS* Cuv.

Holotaxis Cope, 563; logotype *H. MELANOSTOMUS* Cope.

Odontostilbe Cope, 566; orthotype *O. FUGITIVA* Cope.

1020. COPE (1870). *On the Fishes of a Fresh-water Tertiary Lake in Idaho, Discovered by Capt. Clarence King.* Proc. Amer. Philos. Soc. XI.

EDWARD DRINKER COPE.

Lithichthys Cope, XI, 316; orthotype *L. PUSILLUS* Cope (fossil).

Diastichus Cope, XI, 539; orthotype *D. MACRODON* Cope (fossil).

Oligobelus Cope, XI, 541; orthotype *O. ARCIFERUS* Cope (fossil). Said to be near *SEMOTILUS* Raf.

Anchybopsis Cope, XI, 543; orthotype *A. LATUS* Cope (fossil). Referred later to synonymy of "*LEUCOS* Heckel" (*SIPHATELES* Cope).

Rhabdofario Cope, XI, 546; orthotype *R. LACUSTRIS* Cope (fossil). A very large trout from the ancient Lake Idaho.

1021. COPE (1870). *Second Addition to the History of the Fishes of the Cretaceous of the United States.* Proc. Amer. Philos. Soc., XI, 240-244.

EDWARD DRINKER COPE.

Sphagepœa Cope, XI, 241; orthotype *S. ACICULATA* Cope (fossil). An ally of *EDAPHODON* Leidy.

Pneumatosteus Cope, XI, 242; orthotype *P. NAHUNTICUS* Cope (fossil). An ally of *LEPISOSTEUS* Lac.

Crommyodus Cope, XI, 243; orthotype *PHACODUS IRREGULARIS* Cope (fossil). A substitute for *PHACODUS* Cope, preoccupied.

1022. COPE (1870). *On the Saurodontida.* Proc. Amer. Philos. Soc., 1871, XI, 529-538.

EDWARD DRINKER COPE.

Ichthyodectes Cope, 536; orthotype *I. CTENODON* Cope (fossil).

1023. DAY (1870). *On the Fishes of the Andaman Islands.* Proc. Zool. Soc. London.

FRANCIS DAY.

Jerdonia Day, 700; orthotype *PLATACANTHUS MACULATUS* Day.

1024. DUMÉRIL (1870). *Histoire générale des poissons*. Vol. II.

AUGUSTE DUMÉRIL.

Parapegasmus (Blecker) Duméril, 493; orthotype **PEGASUS NATANS** L.**Typhlus** (Bibron MS.) Duméril, 540; logotype **ICHTHYOCAMPUS PONDICERIANUS** Kaup (in synonymy). A synonym of **ICHTHYOCAMPUS** Kaup.**Atelurus** Duméril, 584; orthotype **A. GERMANI** Dum.**Entelurus** Duméril, 605; orthotype **SYNGNATHUS EQUOREUS** L. A synonym of **NEROPHIS** Raf.**Hymenolomus** Duméril, 607; orthotype **SYNGNATHUS HYMENOLOMUS** Rich. = **H. RICHARDSONI** Dum. A synonym of **PROTOCAMPUS** Gthr., 1870.1025. GASCO (1870). *Intorno ad un nuovo genere di pesci*, etc. Bull. Assoc. Nat. e Med. Napol., April, 1870, 59-61.

FRANCESCO GASCO.

Vexillifer Gasco, 59; orthotype **V. DEPHILIPPI** Gasco. An immature and very singular form of some fish, perhaps of **CARAPUS ACUS**.1026. GIEBEL (1870). *Trachypoma marmoratum, ein neuer Wels aus dem Amazonenstrom*. Zeitschr. Ges. Naturw., XXXVII.

CHRISTOPH GOTTFRIED ANDREAS GIEBEL.

Trachypoma Giebel, 97; orthotype **TRACHYPOMA MARMORATUM** Giebel = **EREMOPHILUS MUTISI**. A synonym of **EREMOPHILUS** Humboldt, the name pre-occupied.1027. GÜNTHER (1870). *Catalogue of the Fishes in the British Museum*, VIII.

ALBERT GÜNTHER.

Rhamphosternarchus Günther, VIII, 4; logotype **STERNARCHUS OXYRHYNCHUS** M. & T. A synonym of **STERNARCHORHYNCHUS** Castelnau.**Brachyrhamphichthys** Günther, VIII, 6; logotype **RHAMPHICHTHYS ARTEDI** Kaup. A synonym of **HYPOPOMUS** Gill.**Paramyrus** Günther, VIII, 51; logotype **ECHELUS MICROCHIR** Blkr.**Myroconger** Günther, VIII, 93; orthotype **M. COMPRESSUS** Gthr.**Helminthostoma** (Cocco) Günther, VIII, 145; orthotype **HELMINTHOSTOMA DELLA-CHIAJE** Cocco. Larva of **CARAPUS (FIERASFER)**; passing reference to an unpublished name.**Nannocampus** Günther, VIII, 178; orthotype **N. SUBOSSEUS** Gthr.**Urocampus** Günther, VIII, 179; orthotype **U. NANUS** Gthr.**Protocampus** Günther, VIII, 193; orthotype **SYNGNATHUS HYMENOLOMUS** Rich. Same as **HYMENOLOMUS** Dum. of the same year. Günther's work is dated "May 20, 1870," Duméril's merely "1870". Neither writer quotes the other; the name of Günther has probably precedence.**Hemiconiatus** Günther, VIII, 272; orthotype **TETRAODON GUTTIFER** Bennett. Same as **EPHIPPION** Bibron, 1855, which it replaces if the latter is regarded as pre-occupied by **EPHIPPIUM**.**Liosaccus** Günther, VIII, 287; logotype **T. CUTANEUS** Gthr.**Trichocycclus** Günther, VIII, 316; orthotype **T. ERINACEUS** Gthr. Probably a larval **DIODON**; equivalent to **TRICHODIODON** Blkr.**Leptocarcharias** (Smith MS.) Günther, VIII, 384; orthotype **TRIENODON SMITHI** M. & H. A variant of **LEPTOCARIAS** Smith.**Psammobatis** Günther, VIII, 470; orthotype **P. RUDIS** Gthr.

1028. HANCOCK & ATTHEY (1870). *Notes on an Undescribed Fossil from the Newsham Coalfields near Newcastle-upon-Tyne*. Ann. Mag. Nat. Hist., V.
ALBANY HANCOCK; T. ATTHEY.
- Archichthys** Hancock & Atthey, V, 268; orthotype *A. SULCIDENS* Hancock & Atthey.
Apparently a synonym of *STREPSODUS*.
1029. KLUNZINGER (1870). *Synopsis der Fische des Rothen Meeres*. 1.
Percoiden-Mugiloiden. Verh. K.-K. Zool.-Bot. Ges. Wien, 1870.
CARL BENJAMIN KLUNZINGER (1834-).
- Dirrhizodon** Klunzinger, XX, 664 (Nov. 2); orthotype *D. ELONGATUS* Klunzinger.
A living homologue of *HEMIPRISTIS* Ag.
- Pseudoserranus** Klunzinger, XX, 687; logotype *PERCA LOUTI* Forskål, as restricted by Bleeker (based on *PERCA LOUTI*, *CABRILLA*, and *SCRIBA*). Regarded by me, following Bleeker, as a synonym of *VARIOLA* Sw. Klunzinger protests against this arrangement in a later paper, *PSEUDOSERRANUS* (type *CABRILLA*) being intended as a substitute for *SERRANUS*, which name of Cuvier he uses for *EPINEPHELUS*.
- Paracentropistes** Klunzinger, XX, 687; orthotype *LABRUS HEPATUS* L.
- Pristiapogon** Klunzinger, XX, 715; orthotype *P. FRENATUS* Klunzinger. A synonym of *APOGON* Lac.
- Polysteganus** Klunzinger, 762; orthotype *P. CÆRULEOPUNCTATUS* Klunzinger.
- Gymnocranius** Klunzinger, XX, 764; orthotype *DENTEX RIVULATUS* Rüppell. Replaces *PARADENTEX* Blkr.
1030. DE KONINCK (1870). *Notice sur un nouveau genre de poisson fossile de la craie supérieure*. Bull. Acad. Soc. Roy. Bruxelles, XXIX.
LAURENT GUILLAUME DE KONINCK (1809-1887).
- Ankistrodus** De Koninck, XXIX, 77; orthotype *A. SPLENDENS* De Koninck. A substitute for *ANCISTRODON* Roemer, regarded as preoccupied. Both these names, being regarded as preoccupied by *AGKISTRODON* or *ANCISTRODON* Beauvais, a genus of snakes, are replaced by *GRYPONDON* Hay, 1899.
1031. LANKESTER (1870). *Fishes of the Old Red Sandstone*. Paleont. Soc., 1.
EDWIN RAY LANKESTER.
- Eucephalaspis** Lankester, 1, 43; orthotype *CEPHALASPIS LYELLI* Ag. (fossil). A synonym of *CEPHALASPIS*.
- Hemicyclaspis**, Lankester, 1, 43; orthotype *CEPHALASPIS MURCHISONI* Egert. (fossil).
- Eukeraspis** Lankester, 1, 56; orthotype *SCLERODUS PUSTULIFERUS* Ag. (fossil). A synonym of *SCLERODUS*, that name and also *PLECTRODUS* being rejected for the inadequate reason that the structures which gave the name were wrongly supposed to be teeth.
- Kallostrakon** Lankester, 1, 61; orthotype *K. PODURA* Lank. (fossil). Fragments of a *PTERASPID*.
1032. LEIDY (1870). *Remarks on Ichthyodorulites and on Certain Fossil Mammalia*. Proc. Acad. Nat. Sci. Phila., X, 12-13.
JOSEPH LEIDY.
- Xiphactinus** Leidy, 12; orthotype *X. AUDAX* Leidy. Perhaps the same as *PORTHEUS* Cope.
1033. LEIDY (1870). *Remarks on Fossil Vertebrates*. Proc. Acad. Nat. Sci. Phila.
JOSEPH LEIDY.

Myloocyprinus Leidy, 70; orthotype *M. ROBUSTUS* Leidy.

1034. MARSH (1870). *Notice of Some New Tertiary and Cretaceous Fishes.*
Amer. Assoc. Adv. Sci. for 1869 (1870).

OTHNIEL CHARLES MARSH (1831-1899).

Embalorhynchus Marsh, 228; orthotype *E. KINNEYI* Marsh (fossil). A fossil analogue of *ISTIOPHORUS*.

Dipristis Marsh, 230; orthotype *D. MIERSI* Marsh (fossil). Apparently a synonym of *EDAPHODON*.

1035. NEWBERRY (1870). *Fossil Fishes from the Devonian Rocks of Ohio.*
Proc. N. Y. Lyc. Nat. Hist., 1, 152-153.

JOHN STRONG NEWBERRY.

Aspidophorus Newberry, 1, 153; orthotype *A. CLAVATUS* Newberry (fossil). Name preoccupied, replaced by *ASPIDICHTHYS* Newberry, 1873.

1036. NEWBERRY & WORTHEN (1870). *Descriptions of Fossil Vertebrates.*
Geol. Surv. Ills., IV.

JOHN STRONG NEWBERRY; A. H. WORTHEN.

Cymatodus Newberry & Worthen, IV, 108; orthotype *C. OBLONGUS* Newberry & Worthen (fossil). Probably a synonym of *JANASSA*.

Lophodus Newberry & Worthen, IV, 360; orthotype *L. VARIABILIS* Newberry & Worthen (fossil). Name preoccupied, replaced by *AGASSIZODUS* St. John & Worthen, 1875. A synonym of *CAMPODUS* Koninck.

Peltodus Newberry & Worthen, IV, 362; orthotype *P. UNGUIFORMIS* Newberry & Worthen (fossil). A synonym of *JANASSA*.

Listracanthus Newberry & Worthen, IV, 371; orthotype *L. HYSTRIX* Newberry & Worthen (fossil).

1037. POWRIE (1870). *On the Earliest Known Vestiges of Vertebrate Life. . . .*
Fish Remains from the Old Red Sandstone of Forfarshire. Trans. Geol. Soc.
Edinburgh, 1.

JAMES POWRIE.

Cephalopterus Powrie, 1, 298; orthotype *C. PAGEI* Powrie (fossil). Name preoccupied; a fragment of a supposed *CEPHALASPID*.

1038 ST. JOHN (1870). *Descriptions of Fossil Fishes from the Upper Coal*
Measures of Nebraska. Proc. Amer. Philos. Soc., XI.

ORESTES H. ST. JOHN

Peripristis St. John, XI, 434; orthotype *CTENOPTYCHIUS SEMICIRCULARIS* Newberry & Worthen (fossil). A synonym of *CTENOPTYCHIUS*.

1039 SAUVAGE (1870). *Synopsis des poissons tertiaires de Licata (Sicilia).*
Ann. Sci. Nat. XIV.

HENRI ÉMILE SAUVAGE

Pseudovomer Sauvage, XIV, 10; orthotype *P. MINUTUS* Sauvage (fossil).

Acanthonotos Sauvage, XIV, 10; logotype *A. ARMATUS* Sauvage (fossil). Name preoccupied by *ACANTHONOTUS* Bloch; replaced by *HEMITHYRSITES* Sauvage, 1873.

Tydeus Sauvage, XIV, 23; orthotype *T. MEGISTOSOMA* Sauvage (fossil). (Name preoccupied, replaced by *ANAITERUS* Sauvage, 1873.)

1040. STEINDACHNER & KNER (1870). *Ueber einige Pleuronectiden, . . . von Decastris Bay und von Viti-Levu*. Sitzb. Akad. Wiss. Wien, LXI, 421-446.

FRANZ STEINDACHNER; RUDOLPH KNER.

Stichæopsis Steindachner & Kner, LXI, 441; orthotype *S. NANA* Steindachner & Kner.

1041. STEINDACHNER (1870). *Ichthyologische Notizen*. X. Sitzb. Akad. Wiss. Wien, LXI.

FRANZ STEINDACHNER.

Parapriacanthus Steindachner, LXI, 623; orthotype *P. RANSONNETI* Steind.; replaces *PEMPHERICHTHYS* Klunzinger.

1871

1042. VAN BENEDEN (1871). *Recherches sur quelques poissons fossiles de la Belgique*. (Later included in *Bull. Acad. Roy. Belg.*, XXXI.)

PIERRE J. VAN BENEDEN.

Brachyrhynchus Van Beneden, XXXI, 495; orthotype *ENCHEIZIPHUS TERETIROSTRIS* Rüttimeyer (fossil). Name twice preoccupied; same as *ENCHEIZIPHUS*.

Xiphiorhynchus Van Beneden, XXXI, 499; orthotype *X. ELEGANS* Van Beneden (fossil).

Trigloides Van Beneden, XXXI, 501; orthotype *T. DEJARDINI* Van Beneden (fossil).

Hannovera Van Beneden, XXXI, 504; orthotype *H. AURATA* Beneden (fossil). An extinct ally of *CETORHINUS* Blainv.

Scomberodon Van Beneden, XXXI, 504; orthotype *S. DUMONTI* Van Beneden (fossil). A synonym or extinct analogue of *SCOMBEROMORUS* Lac.

1043. COPE (1871). *On Two Extinct Forms of Physostomi of the Neotropical Region*. Proc. Amer. Philos. Soc., XII.

EDWARD DRINKER COPE.

Prymnetes Cope, XII, 52; orthotype *P. LONGIVENTER* Cope (fossil).

Anædopogon Cope, XII, 53; orthotype *A. TENUIDENS* Cope (fossil). An Elopoid fish not identical with *CLADOCYCLUS* Ag., which seems to belong to the *OSTEOGLOSSIDÆ*.

1044. COPE (1871). *Note on Some Cretaceous Vertebrates in the State Agricultural College of Kansas, etc.* Proc. Amer. Philos. Soc., XII.

EDWARD DRINKER COPE.

Anogmius Cope, XII, 170-354; orthotype *A. CONTRACTUS* Cope (fossil); not *ANOGMIUS* Cope, 1873 (*A. ARATUS* Cope, 1873). Regarded by Woodward as probably a synonym of *PACHYRHIZODUS*.

1045. COPE (1871). *Report on Recent Reptiles and Fishes . . . Hayden Expedition . . . Wyoming, etc.* Ann. Rept. U. S. Geol. Surv. for 1870 (1871).

EDWARD DRINKER COPE.

Apsopelix Cope, 424; orthotype *A. SAURIFORMIS* Cope (fossil).

1046. COPE (1871). *Contribution to the Ichthyology of the Lesser Antilles*. Trans. Amer. Philos. Soc., 1871, XIV, 445-483.

EDWARD DRINKER COPE.

Cryptotomus Cope, XIV, 462; orthotype *C. ROSEUS* Cope. Description of a valid genus from an injured specimen.

Eleutheractis Cope, XIV, 467; orthotype *E. CORIACEUS* Cope. A synonym of *RYPTICUS* Cuv.

Holopterura Cope, XIV, 482; orthotype *H. PLUMBEA* Cope.

1047. CUNNINGHAM (1871). *Notes on the Reptiles, Amphibia, Fishes, Mollusca, and Crustacea Obtained During the Voyage of H.M.S. Nassau in the Years 1866-69.* Trans. Linn. Soc. London (Zool.), 1871, XXVII, 465-502.

ROBERT OLIVER CUNNINGHAM.

Maynea Cunningham, XXVII, 471; orthotype *M. PATAGONICA* Cunningham.

1048. DAY (1871). *On the Fresh-water Siluroid Fishes of India and Burmah.* Proc. Zool. Soc. London, 1871, 703-721.

FRANCIS DAY.

Aillichthys Day, 712; orthotype *A. PUNCTATA* Day.

1049. DELFORTRIE (1871). *Les broyeurs (Cestraciontes) du tertiaire aquitainien.* Acad. Soc. Linn. Bordeaux, XXVIII.

EUGÈNE DELFORTRIE.

Gymnodus Delfortrie, XXVIII, 232; orthotype *G. HETERODON* Delfortrie (fossil). An extinct analogue of *Diodon*.

1050. GÜNTHER (1871). *Description of New Percoid Fish from the Macquarie River.* Proc. Zool. Soc. London, 1871, 320.

ALBERT GÜNTHER.

Ctenolates Günther, 320; orthotype *CTENOLATES MACQUARIENSIS* Gthr. = *DATNIA AMBIGUA* Rich.

1051. GÜNTHER (1871). *Report on Several Collections of Fishes Recently Obtained for the British Museum.* Proc. Zool. Soc. London, 1871, 652-675.

ALBERT GÜNTHER.

Blennodesmus Günther, 667; orthotype *B. SCAPULARIS* Gthr.

Halidesmus Günther, 668; orthotype *H. SCAPULARIS* Gthr.

Nannæthiops Günther, 669; orthotype *N. UNITENIATUS* Gthr.

Pæciloconger Günther, 673; orthotype *P. FASCIATUS* Gthr.

1052. KLUNZINGER (1871). *Synopsis der Fische des Rothen Meeres.* II. Theil. Verh. K.-K. Zool.-Bot. Ges. Wien, 1871, XXI, 441-668.

CARL BENJAMIN KLUNZINGER.

Pempherichthys Klunzinger, XXI, 470; orthotype *P. GÜNTHERI* Klunzinger. A synonym of *PARAPRIACANTHUS* Steind.

Gobiichthys Klunzinger, 479; orthotype *G. PETERSI* Klunzinger. A synonym of *ONYURICHTHYS* Blkr.

1053. LE HON (1871). *Préliminaire mémoire des poissons tertiaires de la Belgique.* HENRI LE HON (1809-1872).

Scaldia Le Hon, 7; orthotype *SCALDIA BIFORIS* Le Hon (fossil). A synonym of *THAUMAS* or perhaps of the living genus *SQUATINA*.

Palanarrhichas Le Hon, 10; orthotype *P. CRASSUS* Le Hon (fossil).

Goniobatis Le Hon, 10; orthotype *G. OMALIUSI* Le Hon (fossil). Name preoccupied; a synonym of *ÆTODATUS*.

1054. LEIDY (1871). *Report on the Vertebrate Fossils of the Tertiary Formations of the West*. Rept. Geol. Surv. Terr. for 1870 (1871).
JOSEPH LEIDY.
Oncobatis Leidy, 70; orthotype *O. PENTAGONUS* Leidy (fossil). An ally of **RAJA**.
1055. LÜTKEN (1871). *Oneiroides eschrichtii Ltk., en ny grønlandsk Tudsefisk*. Overs. Dansk. Vid. Selsk. Kjöbenhavn, 1871, 56-74.
CHRISTIAN FREDERIK LÜTKEN.
Oneiroides Lütken, 56; orthotype *O. ESCHRICHTII* Lütken.
1056. POEY (1871). *Genres de poissons de la fauna de Cuba, appartenant à la famille de Percidæ*. Ann. Lyc. Nat. Hist. N. Y., X.
FELIPE POEY Y ALOY.
Menephorus Poey, X, 50; orthotype *SERRANUS DUBIUS* Poey.

 1872

1057. BARRANDE (1872). *Indications sommaires des vestiges de poissons connus dans les dépôts Siluriens*, etc. (Bohème).
JOACHIM BARRANDE.
Gompholepis Barrande, I, 644; orthotype *G. PANDERI* Barrande (fossil).
1058. BLEEKER (1872). *Atlas ichthyologique*, etc. VI. *Pleuronectes, Clupées*, etc.
PIETER BLEEKER.
Leptogaster Bleeker, 168; orthotype *SPRATELLOIDES ARGYROTAENIA* Blkr. A synonym of *SPRATELLOIDES* (an error probably overlooked in proof-reading).
Paralosa Bleeker, —. This name is quoted from Bleeker, but I fail to find it anywhere. Said to be a synonym of *HARENGULA* Cuv. & Val.
- 1059-1060. CASTELNAU (1872). *Contributions to the Ichthyology of Australia*. Proc. Zool. Acclim. Soc. Victoria, 1872, I, 29-247.
* FRANCIS L. CASTELNAU.
Microperca Castelnau, I, 48; orthotype *M. YARRÆ* Castelnau. Name preoccupied by *MICROPERCA* Putnam, 1863. A synonym of *NANNOPERCA* Gthr.
Murrayia Castelnau, I, 61; orthotype *M. GUENTHERI* Castelnau. A synonym of *MACQUARIA* Cuv. & Val.
Riverina Castelnau, I, 64; orthotype *R. FLUVIATILIS* Castelnau. Probably a synonym of *MACQUARIA* Cuv. & Val.
Neotephræops Castelnau, I, 68; orthotype *CRENIDENS ZERRA* Rich. Same as *GIRELLICHTHYS* Klunzinger. Both are synonyms of *MELAMBAPHES* Gthr.
Neoplatycephalus Castelnau, I, 87; orthotype *N. GRANDIS* Castelnau.
Neosphyræna Castelnau, I, 96; orthotype *N. MULTIRADIATA* Castelnau = *DINOLESTES MUELLERI* Klunzinger. A synonym of *DINOLESTES* Klunzinger.
Richardsonia Castelnau I, 112; orthotype *R. INSIGNIS* Castelnau = *HISTIOPTERUS LABIOSUS* Rich. Name preoccupied; replaced by *PARISTIOPTERUS* Blkr., 1876, and later by *MACCULLOCHIA* Waite.

* François Laporte Comte de Castelnau, while in South Africa and Australia, wrote his name in English fashion as Francis L. Castelnau.

- Atherinosoma** Castelnau, I, 136; orthotype *A. VORAX* Castelnau.
Yarra Castelnau, I, 231; orthotype *Y. SINGULARIS* Castelnau. A synonym of *GEOTRIA* Gray.
Neomordacia Castelnau, I, 232; orthotype *N. HOWITTI* Castelnau. A synonym of *GEOTRIA* Gray.
Neocarassius Castelnau, I, 236; orthotype *N. VENTRICOSUS* Castelnau.
Aploactisoma Castelnau, I, 244; orthotype *A. SCHOMBURGKI* Castelnau. A synonym of *APLOACTIS* T. & S.
Vincentia Castelnau, I, 245; logotype *V. WATERHOUSEI* Castelnau. A synonym of *APOGON* Lac.
Heteroscarus Castelnau, I, 245; logotype *H. FILAMENTOSUS* Castelnau.
Ophioclinus Castelnau, I, 246; orthotype *O. ANTARCTICUS* Castelnau.
Heteroclinus Castelnau, I, 247; orthotype *H. ADELAIDE* Castelnau.

1061. COPE (1872). *On the Fishes of the Ambyacu River*. Proc. Acad. Nat. Sci. Phila. for 1871, 250-292 (dated Jan. 16, 1872).

EDWARD DRINKER COPE.

- Læmolyta** Cope, 258; logotype *ANOSTOMUS TENIATA* Kner.
Iguanodectes Cope, 260; orthotype *I. TENUIS* Cope.
Triportheus Cope, 263; logotype *T. ALBUS* Cope.
Zathorax Cope, 271; orthotype *Z. MONITOR* Cope.
Physopyxis Cope, 273; orthotype *P. LYRA* Cope.
Dianema Cope, 276; orthotype *D. LONGIBARDIS* Cope.
Brochis Cope, 277; orthotype *B. CÆRULEUS* Cope.
Otocinclus Cope, 283; orthotype *O. VESTITUS* Cope.
Pariolius Cope, 289; orthotype *P. ARMILLATUS* Cope.

1062. COPE (1872). *Report on the Reptiles and Fishes Obtained by the Naturalists of the Expedition*. Hayden's Geol. Surv. Wyoming, etc.

EDWARD DRINKER COPE.

- Coliscus** Cope, 437; orthotype *COLISCUS PARIETALIS* Cope = young of *PIMEPHALES FROMELAS* Raf. A synonym of *PIMEPHALES* Raf.
Sarcidium Cope, 440; orthotype *S. SCOPIFERUM* Cope. A synonym of *PHENACOBIVS* Cope, 1867.

1063. COPE (1872). *Report on the Recent Reptiles and Fishes of the Survey, Collected by Campbell Carrington and C. M. Dawes*. Hayden's Rept. Geol. Surv. Montana, etc., for 1871 (1872).

EDWARD DRINKER COPE.

- Apocope** Cope, 472; logotype *A. CARRINGTONI* Cope.
Protoporus Cope, 473; orthotype *P. DOMINUS* Cope (young of *TIGOMA LINEATA* Grd.). A synonym of *TIGOMA* Grd.
Myloleucus Cope, 475; orthotype *M. PULVERULENTUS* Cope. *MYLOLEUCUS* is a synonym of *TIGOMA* Grd. In studying these species, Professor Cope by accident replaced teeth of a *SIPHATILES* in his type example of *MYLOLEUCUS PULVERULENTUS* (*vide* Snyder and Fowler). The group called *RUTILUS* by Jordan & Evermann (*Fishes of N. and M. Amer.*, 1896, 243) is a composite one. *RUTILUS*, with the teeth 6 5, should stand by itself. The name *LEUCUS* Heckel, preoccupied by *LEUCUS* Kaup, with teeth 5-5, should probably give place to

CENISOPHIUS Bon., while the American species should be distributed between SIPHATELES Cope, HESPEROLEUCUS Snyder, and LEUCIDIUS Snyder.

1064. COPE (1872). *A New Genus of Saurodont Fishes, Erisichthe, from the Kansas Niobrara*. Proc. Acad. Nat. Sci. Phila.

EDWARD DRINKER COPE.

Erisichthe Cope, 280; orthotype *E. NITIDA* Cope (fossil). A synonym of *PROTOSPHYRENA* Leidy.

1065. COPE (1872). *On the Families of Fishes of the Cretaceous Formation of Kansas*. Proc. Amer. Philos. Soc., 1872, XII, 327-357.

EDWARD DRINKER COPE.

Portheus Cope, XII, 331; orthotype *P. MOLOSSUS* Cope (fossil). Possibly a synonym of *XIPHACTINUS* Leidy, 1870.

Daptinus Cope, XII, 339; orthotype *SAUROCEPHALUS PHLEBOTOMUS* Cope (fossil).

A synonym of *SAURODON* Hays, itself a synonym of *SAUROCEPHALUS* Harlan.

Empo Cope, XII, 347; orthotype *E. NEPAHOLICA* Cope (fossil).

Stratodus Cope, XII, 349; orthotype *S. APICALIS* Cope (fossil).

1066. COPE (1872). *On the Tertiary Coal and Fossils of Osino, Nevada*. Proc. Amer. Philos. Soc., 1872, XII, 478-481.

EDWARD DRINKER COPE.

Trichophanes Cope, XII, 479; orthotype *T. HIANUS* Cope (fossil).

Amyzon Cope, XII, 480; orthotype *A. MENTALE* Cope (fossil).

1067. COPE (1872). *Notices of New Vertebrata from the Upper Waters of Bitter Creek, Wyoming Territory*. Proc. Amer. Philos. Soc., for 1871, XII, 483-486 (reprints dated Aug. 20, 1872).

EDWARD DRINKER COPE.

Rhineastes Cope, XII, 486; orthotype *R. PELTATUS* Cope (fossil).

1068. DYBOWSKI (1872). *Zur Kenntniss der Fischfauna des Amurgebietes*. Verh. Bot. Ges. Wien, 1872, 200-222.

BENEDIKT IVAN DYBOWSKI

Actenolepis Dybowski, 210; logotype *A. DITMARII* Dybowski = *PERCA CHUATSI* Basilewsky. A synonym of *SINIPERCA* Gill.

Onychodon Dybowski, 211; orthotype *CEPHALUS MANTSCHURICUS* Basilewsky. Same as *ABRAMOCEPHALUS* Steind., both synonyms of *HYPOPHITHALMICHTHYS* Blkr.

Gobiosoma Dybowski, 211; orthotype *G. AMURENSIS* Dybowski. Name preoccupied by *GOBIOSOMA* Grd. A synonym of *SAUROGOBIO* Blkr.

Megalobrama Dybowski, 213; orthotype *M. AKOLKOVII*. A synonym of *PARABRAMIS* Blkr.

Squalidus Dybowski, 215; orthotype *S. CHANKAËNSIS* Dybowski. A synonym of *GNATHOPOGON* Blkr. (*LEUCOGOBIO* Gthr.).

Plagiognathus Dybowski, 216; orthotype *P. JELSKII* Dybowski. Name preoccupied; replaced by *PLAGIOGNATHOPS* Berg.

Barbodon Dybowski, 216; orthotype *B. LACUSTRIS* Dybowski. A synonym of *SARCOCHEILICHTHYS* Blkr.

1069. EGERTON (1872). *Fish: Heterolepidotus, Isocolum*, etc. Mem. Geol. Surv. United Kingdom, 1872, XIII, decade 7.

PHILIP DE MALPAS GREY EGERTON.

- Heterolepidotus* Egerton, XIII, No. 2; orthotype *H. LATUS* Egert. (fossil).
Platysiagum Egerton, XIII, No. 6; orthotype *P. SCLEROCEPHALUM* Egert. (fossil).
Palæospinax Egerton, XIII, No. 7; orthotype *THYELLINA PRISCA* (fossil).
Drepanephorus Egerton, XIII, No. 9; orthotype *ACRODUS RUGOSUS* Ag. (fossil).
 An extinct analogue of the living *HETERODONTUS* or *CENTRACION*.

1070. EGERTON (1872). *On Prognathodus guentheri Egerton, a New Genus of Fossil Fishes from the Lias of Lyme Regis*. Quart. Journ. Geol. Soc., 1872, XXVIII, 233-237.

PHILIP DE MALPAS GREY EGERTON.

- Prognathodus* Egerton, XXVIII, 233; orthotype *P. GUENTHERI* Egert. (fossil).
 Not *PROGNATHODES* Gill, the root meaning being different.

1071. GÜNTHER (1872). *Description of Thrissopater salmoncus n. sp.* (In *Great Britain and Ireland Geological Survey. Figures and Descriptions Illustrative of British Organic Remains*. Decade 13, London, 1872.)

ALBERT GÜNTHER.

- Thrissopater* Günther, No. 1; orthotype *T. SALMONEUS* Gthr. (fossil).

1072. GÜNTHER (1872). *Zoological Record for 1871*.

ALBERT GÜNTHER.

- Macruronus* Günther, 103; orthotype *CORYPHÆNOIDES NOVÆ-ZELANDIÆ* Hector.

1073. GÜNTHER (1872). *On a New Genus of Characinoid Fishes from Demerara*. Proc. Zool. Soc. London, 1872, 146.

ALBERT GÜNTHER.

- Nannostomus* Günther, 146; orthotype *N. DECKFORDI* Gthr.

1074. GÜNTHER (1872). *Description of Two New Fishes (Lanioperca mordax, Chilodactylus allporti) from Tasmania*. Ann. Mag. Nat. Hist., 1872, ser. 4, X, 183-184.

ALBERT GÜNTHER.

- Lanioperca* Günther, 183; orthotype *L. MORDAX*, Gthr. = *DINOLESTES MUELLERI* Klunzinger.

"The same fish is described as *DINOLESTES MUELLERI* (g. et. sp. n.) by Klunzinger, *Arch. f. Nat.*, 1872, p. 29, Taf. 3. (this name has the priority); and still later as *NEOSPHYRENA MULTIRADIATA* (g. et. sp. n.) by Castelnau, *Proc. Zool. Soc. Victor*, 1872, p. 96."—(Günther).

The name *DINOLESTES* stands.

1075. GÜNTHER (1872). *Notice on Two New Fishes (Symphorus tenuiolatus, Mugil meyeri) from Celebes*. Ann. Mag. Nat. Hist., 1872, IV, ser. 9, 438-440.

ALBERT GÜNTHER.

- Symphorus* Günther, 438; orthotype *S. TENIOLATUS* Gthr.

1076. HANCOCK & ATTHEY (1872). *Descriptive Notes on a Nearly Entire Specimen of Pleurodus . . . in the Coal Measures of Newsham*. Trans. Nat. Hist. Soc. Northumberland, IX.

ALBANY HANCOCK; T. ATTHEY.

- Pleurodus** (Agassiz) Hancock & Atthey, IX, 408; orthotype **PLEURODUS RANKINEI** Ag. (fossil). Name regarded as preoccupied by **PLEURODON** Wood, 1840; replaced by **PLEUROPLAX** Woodw. (1889).
1077. **HUTTON** (1872). *Contributions to the Ichthyology of New Zealand*. Trans. Proc. New Zealand Instit., 1872, V, 259-272.
FREDERICK WOLLASTON HUTTON (1836-1905).
- Calloptilum** Hutton, 266; orthotype **C. PUNCTATUM** Hutton. Name preoccupied, replaced by **AUCHENOCEROS** Gthr.
1078. **HUTTON & HECTOR** (1872). *Fishes of New Zealand*, etc. Wellington, 1872, 1-133.
FREDERICK WOLLASTON HUTTON; JAMES HECTOR.
- Phosichthys** Hutton & Hector, 55; orthotype **P. ARGENTUS** Hutton & Hector (later corrected to **PHOTICHTHYS**).
1079. **KLUNZINGER** (1872). *Zur Fischfauna von Süd-Australien*. Arch. Naturg., 1872, 38 Jahrg., pt. 1, 17-47.
CARL BENJAMIN KLUNZINGER.
- Paradules** Klunzinger, 20; logotype **P. OBSCURUS** Klunzinger. Name preoccupied; a synonym of **NANNOPERCA** Gthr.
- Girellichthys** Klunzinger, 22; orthotype **CRENIDENS ZEBRA** Rich. Same as **NEOTEPHRAEOPS** Castelnau, and a little earlier; both apparently synonyms of **MELAMBAPHES** Gthr.
- Dinolestes** Klunzinger, 29; orthotype **D. MUELLERI** Klunzinger; replaces **LANIOPERCA** and **NEOSPHYRENA**, both a little later in the same year.
1080. **PETERS** (1872). *Ueber eine neue Gattung von Fischen aus der Familie der Catophracti Cuv., Scombrocottus salmoneus, von der Vancouvers-Insel*. Monatsb. Akad. Wiss. Berlin, 1872, 568-570.
WILHELM CARL HARTWIG PETERS.
- Scombrocottus** Peters, 568; orthotype **S. SALMONEUS** Peters = **GADUS FIMBRIA** Pallas. A synonym of **ANOPILOPOMA** Ayres.
1081. **THIOLLIÈRE** (1872). *Description des poissons fossiles des gisements coralliens du Jura dans le Bugcy*. (Second edition, the first in 1854.)
VICTOR JOSEPH DE L'ISLE THIOLLIÈRE.
- Attakeopsis** Thiollière, 23; orthotype **A. DESORI** Thiollière (fossil). A synonym of **IONOSCOPIUS** Costa; first printed as name only in 1858.

 1873

1082. **BARKAS** (1873). *Illustrated Guide to the Fish . . . (and other) Remains of the Northumberland Carboniferous Strata*.
THOMAS PALLISTER BARKAS (1819-1891).
- Orthognathus** Barkas, 38; orthotype **O. RETICULOSUS** Barkas (fossil). A synonym of **RHIZODOPSIS** Young.
- Labyrinthodontosaurus** Barkas, 75; orthotype **L. SIMMI** Barkas = **HOLOPTYCHIUS SAUROIDES** Binney. A synonym of **STREPSODUS** Huxley.

- 1083 VAN BENEDEN (1873). *Sur un nouveau poisson du terrain Bruxellien*. Bull. Acad. Roy. Belgique, XXXV.

PIERRE J. VAN BENEDEN.

Homalorhynchus Van Beneden, XXXV, 210; orthotype **PALEORHYNCHUM BRUXEL- LIENSE** Le Hon (fossil). A synonym of **HEMIRHYNCHUS** Ag.

1084. BLEEKER (1873). *Mémoire sur la faune ichthyologique de Chine*. Neder. Tijdschr. Dierk., IV, 1873, 113-154

PIETER BLEEKER.

Silurodon Bleeker, IV, 125; orthotype **S. HEXANEMA** Blkr.

Leptopegasus Bleeker, IV, 125; orthotype **PEGASUS NATANS** L. A synonym of **PARAPEGASUS** Dum. (1870).

Paragobiodon Bleeker, IV, 129; orthotype **GOBIOUS ECHINOCEPHALUS** Ruppell (not **P. MELANOSOMA** Blkr., as stated by Jordan & Seale, *Fishes of Samoa*). Replaces **RUFFELLIA** Sw., 1839, preoccupied.

Tylometopon (Van Beneden) Bleeker, IV, 133; orthotype **T. DUSSUMIERI** Blkr.

Odontolabrax Bleeker, IV, 149; orthotype **O. TYPUS** Blkr.

- 1084A. BLEEKER (1873). *Révision des espèces indo-archipélagiques du groupe des Anthianini*. Neder. Tijdschr. Dierk., IV, 1872, 155-169.

PIETER BLEEKER.

Pseudanthias Bleeker, 158; orthotype **ANTHIAS PLEUROTENIA** Blkr.

Dactylanthias Bleeker, 158; orthotype **D. APODACTYLUS** Blkr.

Odontanthias Bleeker, 158; orthotype **ANTHIAS RHODOPELUS** Gthr.

Plectranthias Bleeker, 158; orthotype **PLECTROPOMA ANTHIHOIDES** Gthr.

1085. BLEEKER (1873). *Mededeelingen omtrent eene herziening der Indisch-Archipelagische soorten van Epinephelus, Lutjanus, Dentex en verwante geslachten*. Versl. Akad. Amsterdam (2) VII, 1873, 40-46.

PIETER BLEEKER.

Gnathodentex Bleeker, VII, 41; orthotype **PENTAPUS AURILINEATUS** Blkr.

- 1086 BLEEKER (1873). *Sur le genre Parapristipoma et sur l'identité spécifique des Perca trilineata Thunb., Pristipoma japonicum C. et Diagramma japonicum* Blkr. Arch. Neerl. Sci. Nat., VIII, 1873, 19-24

PIETER BLEEKER.

Parapristipoma Bleeker, VIII, 22; orthotype **PERCA TRILINEATA** Thunberg.

1087. CASTELNAU (1873). *Contributions to the Ichthyology of Australia*. Proc. Zool. Soc. Victoria, II, 37-158.

FRANCIS LAPORTE CASTELNAU.

Lacepedia Castelnau, II, 42; orthotype **L. CATAPHRACTA** Castelnau.

Ruppelia Castelnau, II, 51; orthotype **R. PROLONGATA** Castelnau. A synonym of **PARAPLESIOPS** Blkr. Name preoccupied by **RUFFELLIA** Sw., a genus of gobies, and by a still earlier genus of insects.

Zantecla Castelnau, II, 87; orthotype **Z. PUSILLA** Castelnau. A synonym of **MELANO TÆNIA** Gill.

Ellerya Castelnau, II, 95; orthotype **E. UNICOLOR** Castelnau. A synonym of **Gobiopon** Kuhl & Van Hasselt.

Neomyripristis Castelnau, II, 98; orthotype **N. AMÆNUS** Castelnau.

Neocirrhites Castelnau, II, 101; orthotype *N. ARMATUS* Castelnau. A synonym of *CIRRHITICHTHYS*.

Neosudis Castelnau, II, 118; orthotype *N. VORAX* Castelnau.

Neotrygon Castelnau, II, 121; orthotype *RAJA TRYGONOIDES* Castelnau.

Edelia Castelnau, II, 123; logotype *E. VITTATA* Castelnau. A synonym of *NANNOFERCA* Gthr.

Bostockia Castelnau, II, 126; orthotype *B. POROSA* Castelnau.

Neochætodon Castelnau, II, 130; orthotype *N. VITTATUS* Castelnau. A synonym of *MICROCANTHUS* Sw.

Hectoria Castelnau, II, 151; orthotype *OLIGORUS GIGAS* Owen. A synonym of *POLYPRION* Val.

1088. CASTELNAU (1873). *Edible Fishes of Victoria*. Exhibition Essays.
FRANCIS LAPORTE CASTELNAU.

Bleeckeria Castelnau, —; orthotype *B. CATAFRACTA* Castelnau = *Plesiops BLEEKERI* Gthr. (*vide* Ogilby). Name preoccupied as *BLEEKERIA* Gthr. A synonym of *PARAPLESIOPS* Blkr., 1875.

1089. COPE (1873). *On the Extinct Vertebrata of the Eocene of Wyoming*, etc.
Rept. Geol. Surv. for 1872.
EDWARD DRINKER COPE.

Clastes Cope, 633; orthotype *C. ANAX* Cope (fossil) = *LEPIDOSTEUS ATROX* Leidy.
An extinct homologue of *LEPIDOSTEUS*.

Pappichthys Cope, 636; orthotype *P. PLICATUS* Cope (fossil).

Astephus Cope, 637; orthotype *RHINEASTES CALVUS* Cope.

1090. COPE (1873). *A Contribution to the Ichthyology of Alaska*. Proc. Amer. Philos. Soc., 1873, XIII, 24-32.
EDWARD DRINKER COPE.

Bathymaster Cope, XIII, 31; orthotype *B. SIGNATUS* Cope.

1091. COPE (1873). *On Some New Batrachia and Fishes from the Coal Measures of Linton, Ohio*. Proc. Acad. Nat. Sci. Phila.
EDWARD DRINKER COPE.

Conchiopsis Cope, 341; orthotype *C. FILIFERUS* Cope (fossil). A synonym of *CELACANTHUS* Ag.

Peplorhina Cope, 343; orthotype *P. ANTHRACINA* Cope (fossil). Regarded as an amphibian by Dr. Newberry.

1092. COSTA (1873). *Ittioliti fossili Italiani*.
ORONZIO GABRIELE COSTA.

Omalopleurus Costa, 59; orthotype *O. SPECIOSUS* Costa (fossil). A synonym of *DAPEDIUM* Leach.

1093. FITZINGER (1873). *Die Gattungen der europäischen Cyprinen nach ihren äusseren Merkmalen*. Sitzb. Akad. Wiss. Wien, LXVIII
LEOPOLD JOSEPH FRANZ JOHANN FITZINGER.

Zopa Fitzinger, LXVIII, 152; orthotype *CYPRINUS SOPA* Pallas. Apparently a synonym of *BALLERUS* Heckel.

Vimba Fitzinger, LXVIII, 152; tantotype *CYPRINUS VIMBA* L. An ally of *ABRAMIS* Cuv.

- Rubellus** Fitzinger, LXVIII, 152, 162; orthotype *CYPRINUS RUTILUS* L. A synonym of *RUTILUS* Raf.
- Orfus** Fitzinger, LXVIII, 152, 163; orthotype *LEUCISCUS VIRGO* Heckel (Orfus Germanorum Marsilius, 1726, *Pisces Danubienses*) = *CYPRINUS PIGUS* Lac. A synonym of *CENTISOPHIUS* Bon.
- Cephalopsis** Fitzinger, LXVIII, 152, 165; logotype *LEUCISCUS SVALLIZE* Heckel & Kner. A synonym of *LEUCISCUS* Cuv.
- Habrolepis** Fitzinger, LXVIII, 152, 167; orthotype *LEUCISCUS UKLIVA* Heckel. A synonym of *TELESTES* Bon.
- Bathystoma** Fitzinger, LXVIII, 152, 168; orthotype *LEUCISCUS MICROLEPIS*. Name preoccupied; a synonym of *TELESTES* Bon.
- Machærochilus** Fitzinger, LXVIII, 152, 170; orthotype *CHONDROSTOMA PHOXINUS* Heckel. A synonym of *CHONDROSTOMA* Ag.

1094-1095. GOLDENBURG (1873). *Fauna Sarapontana fossilis*.

F. GOLDENBURG (1873-).

- Leiolepis** Goldenburg, 5; orthotype (not named by Woodward). A synonym of *AMBLYPTERUS* Ag.

1096. GÜNTHER (1873). *New Fishes from Angola*. Ann. Mag. Nat. Hist., 1873, ser. 4, XII, 142-144.

ALBERT GÜNTHER.

- Channalabes** Günther, 142; orthotype *C. APUS* Gthr.

- Bryconæthiops** Günther, 143; orthotype *B. MICROSTOMA* Gthr.

1097. GÜNTHER (1873). *Report on a Collection of Fishes from China*. Ann. Mag. Nat. Hist., ser. 4, XII, 239-250.

ALBERT GÜNTHER.

- Lophiogobius** Günther, 241; orthotype *L. OCELLICAUDA* Gthr. Not identical with *LOPHIOGOBIUS* Gill.

- Myloleucus** Günther, 247; orthotype *LEUCISCUS ÆTHIOPS* Basilewsky. Name preoccupied by *MYLOLEUCUS* Cope.

- Toxabramis** Günther, 249; orthotype *T. SWINHONIS* Gthr.

- Psephurus** Günther, 250; orthotype *POLYODON GLADIUS* Martens.

1098. GÜNTHER (1873). *Andrew Gorrett's Fische der Südsee*. Band I. Journ. Mus. Godeffroy, 1873, 1-128.

ALBERT GÜNTHER.

- Gymnoscopelus** Günther, 91; orthotype *G. APIYA* Gthr.

- Holotrachys** Günther, 93; orthotype *MYRIPRISTIS LIMA* Cuv. & Val.

- Diplophos** Günther, 101; orthotype *D. TENIA* Gthr.

1099. HAAST (1873). *Notes on Some Undescribed Fishes of New Zealand*. Trans. New Zealand Instit., 1873, V, 272-278.

JOHANN FRANZ JULIUS VON HAAST (1822-1887).

- Synnema** Haast, V, 274; orthotype *ANEMA MONOPTERYGIUM* Blkr

- Bowenia** Haast, V, 276; orthotype *B. NOVÆ-ZELANDIÆ* Haast.

1100. KAUP (1873). *Ueber die Familie Triglida, nebst einigen Worten über die Classification*. Archiv. Naturgeschichte.

JOHANN JACOB KAUP.

- Microtrigla** Kaup, 86; logotype *TRIGLA PAPILIO* Cuv. & Val. Differs from *LEPIDOTRIGLA* in the armed scales of the lateral line.

Chelidonichthys Kaup, 87; logotype *TRIGLA HIRUNDO* L.

Lyrichthys Kaup, 88; logotype *TRIGLA LYRA* L. A valid subgenus, if *TRIGLA GURNARDUS* L. is taken as type of *TRIGLA*, setting aside the later choice of type (*TRIGLA LYRA* L.) by Jordan & Gilbert, 1883.

Palænichthys Kaup, 90; logotype *TRIGLA ASPERA* Cuv. & Val. A synonym of *LEPIDOTRIGLA* Gthr.

These subgenera of Kaup have been overlooked by authors. They may be thus briefly defined, after Kaup:

- a. Scales moderate, evenly placed; preorbital not produced.
- b. Lateral line armed with strong spines; dorsal short. *MICROTRIGLA*.
- bb. Lateral line unarmed; head well armed. (*LEPIDOTRIGLA*) *PALÆNICHTHYS*.
- aa. Scales very small, crowded.
- c. Lateral line unarmed; preorbital produced. *CHELIDONICHTHYS*.
- cc. Lateral line with strong spines.
- d. Preorbital expanded in a broad, emarginate "lyre-like projection." *LYRICHTHYS*.
- dd. Preorbital not expanded. *TRIGLA*.

1101. LANKESTER (1873). *On Holaspis sericeus and on the Relationships of the Fish-Genera Pteraspis, Cythaspis, and Scaphaspis*. Geol. Mag., X.

EDWIN RAY LANKESTER.

Holaspis Lankester, X, 242; orthotype *H. SERICEUS* Lank. (fossil). Name preoccupied; a synonym of *PALÆASpis* Claypole.

1102. LEIDY (1873). *Contributions to the Extinct Vertebrate Fauna of the Western Territories*. I. Rept. U. S. Geol. Surv. for 1867 (1873).

JOSEPH LEIDY.

Protautoga Leidy, 15; orthotype *P. CONDENS* Leidy.

Eumylodus Leidy, 309; orthotype *LAQUEATUS* Leidy (fossil). A synonym of *EDAPHODON* Buckland.

1103. LEIDY (1873). *Notice of Remains of Fishes in the Bridger Tertiary Formations of Wyoming*. Proc. Acad. Nat. Sci. Phila.

JOSEPH LEIDY.

Hypamia Leidy, 98; orthotype *H. ELEGANS* Leidy (fossil).

Protamia Leidy, 98; orthotype *AMIA GRACILIS* Leidy (fossil).

Phareodus Leidy, 99; *P. ACUTUS* Leidy (fossil). Genus undefined, but not the species; replaces *DAPEDOGLOSSUS* Cope.

1104. LÜTKEN (1873). *Nogle nye eller mindre fuldstændigt kjendte Pandsemaller, især fra det nordlige Sydamerika*. Vid. Meddel., Kjöbenhavn, 1873, 202-220.

CHRISTIAN FREDERIK LÜTKEN.

Xenomystus Lütken, 217; orthotype *X. GOMIO* Lütken. Name preoccupied; replaced by *HEMIPSILICHTHYS* Eigenmann.

1105. MARCK (1873). (*Fossile Fische*.) *Palæontographia*, XXII, 1873.

W. VON DER MARCK.

Thrissopteroides von der Marck, XXII, 61; orthotype *T. ELONGATUS* von der Marck (fossil).

1106. NEWBERRY (1873). *Descriptions of Fossil Fishes*. Rept. Geol. Surv. Ohio. 1. (Devonian System, 290-324.)

JOHN STRONG NEWBERRY.

Cyrtacanthus Newberry, 1, 316; orthotype *C. DENTATUS* Newberry (fossil). Probably a synonym of *ERISMACANTHUS*.

Liognathus Newberry, 1, 306; orthotype *L. SPATULATUS* Newberry. Name preoccupied by *LIÖGNATHUS* Lac.; replaced by *LISIOGNATHUS* Miller, 1892.

Rhynchodus Newberry, 1, 307; orthotype *R. SECANS* Newberry (fossil).

Dinichthys Newberry, 1, 313; logotype *D. HERTZERI* Newberry (fossil).

Aspidichthys Newberry, 1, 322; orthotype *ASPIDOPHORUS CLAVATUS* Newberry (fossil). Replaces *ASPIDOPHORUS* Newberry, preoccupied.

1107. POEY (1873). *Grammicolepis brachiusculus, tipo de uno nuevo familia en la clase de los peces*. Anal. Soc. Española Hist. Nat., Madrid, 1873, II, 403-406.

FELIPE POEY Y ALOY.

Grammicolepis Poey, II, 403; orthotype *G. BRACHIUSCULUS* Poey.

1108. SAUVAGE (1873). *Note sur le Sebastes minutus*. Ann. Sci. Nat. (Zool.), V, 1.

HENRI ÉMILE SAUVAGE.

Sebastopsis Sauvage, V, 1; orthotype *SEBASTES MINUTUS* Cuv. Identical with the earlier *SEBASTOPSIS* Gill, both being synonyms of *SCORPENODES* Blkr.

1109. SAUVAGE (1873). *Mémoire sur la faune ichthyologique de la période tertiaire et plus spécialement sur les poissons fossiles d'Oran (Algérie) et sur ceux découverts par M. R. Alby à Licata en Sicile*. Ann. Sci. Géol., 1873, IV, No. 1.

HENRI ÉMILE SAUVAGE.

Trichiurichthys Sauvage, IV, 130; orthotype *T. INCERTUS* Sauvage (fossil).

Hemithyrsites Sauvage, IV, 136; orthotype *ACANTHONOTUS ARMATUS* Sauvage (fossil); replaces *ACANTHONOTUS* Sauvage, preoccupied by *ACANTHONOTUS* Bloch.

Pseudeleginus Sauvage, IV, 164; orthotype *P. ALBYI* Sauvage (fossil).

Parascopelus Sauvage, IV, 196; orthotype *SCOPFLUS LACERTOSUS* Sauvage (fossil).

Anapterus Sauvage, IV, 199; orthotype *TYDEUS MEGISTOSOMA* Sauvage (fossil). Name a substitute for *TYDEUS* Sauvage, preoccupied.

1110. TRAQUAIR (1873). *On a New Genus (Ganorhynchus) of Fossil Fish of the Order Dipnoi*. Geol. Mag., 1873, N, 552-555.

RAMSAY HEATLEY TRAQUAIR (1840-1912).

Ganorhynchus Traquair, 555; orthotype *G. WOODWARDI* Traquair (fossil).

1111. VAILLANT (1873). *Recherches sur les poissons des eaux douces de l'Amérique septentrionale designés par M. L. Agassiz sous le nom d'Étheostomidae*. Nouv. Archiv. Mus. Hist. Nat. Paris, 1873, IX, 5-154.

LÉON LOUIS VAILLANT.

Plesioperca Vaillant, IX, 36; orthotype *P. ANCEPS* Vaillant = *HADROPTERUS NIGROFASCIATUS* Ag. A synonym of *HADROPTERUS* Ag.

Astaticthys Vaillant, IX, 106; orthotype *ETHIOSTOMA CERULEA* Storer. A synonym of *OLIGOCEPHALUS* Grd.

1874

1112. BARKAS (1874). *On the Microscopical Structure of Fossil Teeth from the Northumberland Coal Measures*. Monthly Review Dental Surgery.

WILLIAM JAMES BARKAS.

- Petalodopsis** Barkas, II, 538; orthotype *P. MIRABILIS* Barkas = *SAGENODUS INEQUALIS* Owen (fossil). Probably a synonym of *SAGENODUS*.

1113. BLEEKER (1874). *Typi nonnulli generici piscium neglecti*. Versl. Akad. Amsterdam (2), VIII, 367-371.

PIETER BLEEKER.

- Campylomormyrus** Bleeker, VIII, 367; orthotype *MORMYRUS TAMANDUA* Gthr.

- Oxymormyrus** Bleeker, VIII, 367; orthotype *MORMYRUS ZANCLIROSTRIS* Gthr.

- Solenomormyrus** Bleeker, VIII, 368; orthotype *CENTRISCUS NILOTICUS* Bl. & Schn.

- Pararhynchobdella** Bleeker, VIII, 368; orthotype *RHYNCHOBDELLA MACULATA* Reinwardt.

- Polyacanthonotus** Bleeker, VIII, 368; orthotype *NOTACANTHUS RISSOANUS* Filippi & Verany.

- Gunnellops** Bleeker, VIII, 368; orthotype *GUNNELLUS ROSEUS* Cuv. & Val.

- Lycodalepis** Bleeker, VIII, 369; orthotype *LYCODES MUCOSUS* Rich.

- Paralycodes** Bleeker, VIII, 369; orthotype *LYCODES VARIEGATUS* Gthr.

- Acanthocephala** Bleeker, VIII, 369; orthotype *CEPOLA KRUSENSTERNI* Schlegel.

- Macuroplus** Bleeker, VIII, 369; orthotype *MACRURUS SERRATUS* Lowe.

- Paramacrurus** Bleeker, VIII, 370; orthotype *LEPIDOLEPRUS AUSTRALIS* Rich.

- Oxymacrurus** Bleeker, VIII, 370; orthotype *MACRURUS JAPONICUS* T. & S.

- Parabembras** Bleeker, VIII, 370; orthotype *BEMBRAS CURTUS* T. & S.

- Octogrammus** Bleeker, VIII, 370; orthotype "*LABRAX OCTOGRAMMUS* Schlegel" =

OCTOGRAMMUS PALLASI Blkr. A synonym of *HEXAGRAMMUS* Steller.

- Parachætodon** Bleeker, VIII, 371; orthotype *CILETODON OLIGACANTHUS* Blkr.

1114. BLEEKER (1874). *Notice sur les genres Amblyeleotris, Valenciennesia et Brachyleotris*. Versl. Akad. Amsterdam (2), VIII, 1874, 372-376.

PIETER BLEEKER.

- Amblyeleotris** Bleeker, VIII, 372; orthotype *ELEOTRIS PERIOPHTHALMUS* Blkr.

- Eleotrioides** Bleeker, VIII, 372; orthotype *E. CYANOSTIGMA* Blkr. Not *ELEOTRIODES* Blkr., 1857; a synonym of *BRACHYLEOTRIS* Blkr.

1115. BLEEKER (1874). *Esquisse d'un système naturel des Gobioides*. Arch. Néerl. Sci. Nat., IX, 1874, 289-331.

PIETER BLEEKER.

- Guavina** Bleeker, IX, 302; orthotype *ELEOTRIS GUAVINA* Cuv. & Val.

- Oxyeleotris** Bleeker, IX, 302; orthotype *ELEOTRIS MARMORATA* Blkr.

- Culius** Bleeker, IX, 303; orthotype *CULIUS FUSCUS* Blkr = *ELEOTRIS NIGRA* Q. & G. A synonym of *ELEOTRIS* Gronow.

- Belobanchus** Bleeker, IX, 304; orthotype *B. QUOYI* Blkr.

- Gymneleotris** Bleeker, IX, 304; orthotype *ELEOTRIS SEMINUDUS* Gthr.

- Butis** Bleeker, IX, 304; orthotype *CHEILODIPTERUS BUTIS* Ham.

- Gymnobutis** Bleeker, IX, 304; orthotype *ELEOTRIS GYMNOCEPHALUS* Steind.

- Prionobutis** Bleeker, IX, 305; orthotype *ELEOTRIS DASYRHYNCHIUS* Gthr. A synonym of *BUTIS* Blkr.

- Odontobutis** Bleeker, IX, 305; orthotype *ELEOTRIS OBSCURA* T. & S.

Priolepis (Ehrenberg) Bleeker, IX, 305; orthotype *ASTEROPTERYX SEMIPUNCTATUS* Rüppell. A synonym of *ASTEROPTERYX* Rüppell, noted in passing.

Brachyeleotris Bleeker, IX, 306; orthotype *ELEOTRIS CYANOSTIGMA* Blkr.

Heteroeleotris Bleeker, IX, 306; orthotype *GOBIOUS DIADEMATUS* Rüppell.

Valenciennesia Bleeker, IX, 307; orthotype *ELEOTRIS STRIGATA* Blkr.

The names *VALENCIENNEA*, *VALENCIENNESIA*, and *ELEOTRIODES* have been confused by Bleeker. *VALENCIENNEA* appeared (1868) without diagnosis, with mention only of *ELEOTRIS HASSELTII* Blkr. As this was a previously known species, the name may be regarded as established and the species in question as its type. Later in 1868 *VALENCIENNESIA* appears also without explanation, in connection with *ELEOTRIS STRIGATA* Blkr. Meanwhile, the name *ELEOTRIODES* had been given in 1857, in the same way, without diagnosis, to *ELEOTRIS SENGUTTATA* Cuv. & Val. In 1874 Bleeker makes *ELEOTRIODES* a synonym of *VALENCIENNESIA*, with *E. STRIGATA* as type, and still later in 1874, in his *Esquisse Général*, *ELEOTRIODES* appears as a separate genus, its type being specified as *ELEOTRIS HELSDINGENI* Blkr. Clearly Bleeker regarded these earlier names as names only, but as each of them refers to a species already known, they must have place in the system. That *VALENCIENNEA*, 1868 (*HASSELTII*), is distinct from *ELEOTRIODES*, 1857 (*SENGUTTATA*), is quite probable.

Eleotriodes Bleeker IX, 307; orthotype *E. HELSDINGENI* Blkr. (not *ELEOTRIODES* Blkr., 1857).

Orthostomus (Kner) Bleeker, IX, 308; orthotype *GOBIOUS AMBLYOPINUS* Kner.

Oxymetopon Bleeker, IX, 308; orthotype *O. TYPUS* Blkr.

Pseudogobiodon Bleeker, IX, 309; orthotype *GOBIOUS CITRINUS* Rüppell.

Paragobiodon Bleeker, IX, 309; orthotype *GOBIOUS MELANOSOMA* Blkr. Replaces *RUPPELLIA* Sw., preoccupied.

Alepidogobius Bleeker, IX, 310; orthotype *GOBIOSOMA FASCIATUM* Playfair.

Gobiopterus Bleeker, IX, 311; orthotype *APOCRYPTES BRACHYPTERUS* Blkr.

Leptogobius Bleeker, IX, 311; orthotype *GOBIOUS ONYPTERUS* Blkr.

Triænopogon Bleeker, IX, 312; orthotype *TRILENOPHORICHTHYS BAREATUS* Gthr.

Sicydiops Bleeker, IX, 314; orthotype *SICYDIUM XANTHURUS* Blkr.

Microsicydium Bleeker, IX, 314; orthotype *SICYDIUM GYMNAUCHEN* Blkr.

Brachygobius Bleeker, IX, 315; orthotype *GOBIOUS DORLE* Gthr.

Callogobius Bleeker, IX, 315; orthotype *ELEOTRIS HASSELTII* Blkr. A synonym of *VALENCIENNEA*.

Platygobius Bleeker, IX, 316; orthotype *GOBIOUS MACRORHYNCHUS* Blkr.

Mesogobius Bleeker, IX, 317; orthotype *GOBIOUS BATRACHOCEPHALUS* Pallas.

Stenogobius Bleeker, IX, 317; orthotype *GOBIOUS GYMNOPOMUS* Blkr.

Oligolepis Bleeker, IX, 318; orthotype *GOBIOUS MELANOSTIGMA* Blkr.

Gnatholepis Bleeker, IX, 318; orthotype *GOBIOUS ANJERENSIS* Blkr.

Hypogymnogobius Bleeker, IX, 318; orthotype *GOBIOUS XANTHOZONA* Blkr.

Hemigobius Bleeker, IX, 319; orthotype *GOBIOUS MELANURUS* Blkr.

Actinogobius Bleeker, IX, 319; orthotype *GOBIOUS OMMATURUS* Blkr.

Cephalogobius Bleeker, IX, 320; orthotype *GOBIOUS SUBLITUS* Cantor.

Centrogobius Bleeker, IX, 321; orthotype *GOBIOUS NOTACANTHUS* Blkr. Same as *OPLOPOMUS* Steind., not *OPLOPOMA* Grd.

Acentrogobius Bleeker, IX, 321; orthotype *GOBIOUS CHLOROSTIGMA* Blkr.

Porogobius Bleeker, IX, 321; orthotype *GOBIOUS SCHLEGELI* Gthr.

- Amblygobius** Bleeker, IX, 322; orthotype **Gobius** *SPHINX* Blkr.
- Cryptocentrus** (Ehrenberg), Bleeker, IX, 322; orthotype **Gobius** *CRYPTOCENTRUS* Cuv. & Val. Same as **PARAGOBIOUS** Blkr.
- Zonogobius** Bleeker, IX, 323; orthotype **Gobius** *SEMIFASCIATUS* Kner.
- Odontogobius** Bleeker, IX, 323; orthotype **Gobius** *BYNOËNSIS* Blkr.
- Stigmatogobius** Bleeker, IX, 323; orthotype **Gobius** *PLEUROSTIGMA* Blkr.
- Amblychæturichthys** Bleeker, IX, 324; orthotype **CHÆTURICHTHYS** *HEXANEMA* Blkr.
- Parachæturichthys** Bleeker, IX, 325; orthotype **CHÆTURICHTHYS** *POLYNEMA* Blkr.
- Periophthalmodon** Bleeker, IX, 326; orthotype **Gobius** *SCHLOSSERI* Pallas = **Gobius** *BARBARUS* L. A synonym of **PERIOPHTHALMUS** Bl. & Schn., as restricted by Gill, 1863.
- Apocryptodon** Bleeker, IX, 327; orthotype **Apocryptes** *MADURENSIS* Blkr.
- Parapocryptes** Bleeker, IX, 327; orthotype **Apocryptes** *MICROLEPIS* Blkr.
- Gobileptes** (Swainson) Bleeker, IX, 327; type **Apocryptes** *BATO* Cuv. & Val. The first assignment of type, but evidently not the species Swainson had in mind as **GOBILEPTES**.
- Pseudapocryptes** Bleeker, IX, 328; orthotype **Apocryptes** *LANCEOLATUS* Cantor.
- Brachyamblyopus** Bleeker, IX, 329; orthotype **Amblyopus** *BRACHYSOMA* Blkr.
- Odontamblyopus** Bleeker, IX, 330; orthotype **Gobioides** *RUBICUNDUS* Ham.
- Trypauchenichthys** Bleeker, IX, 331; orthotype **T.** *TYPUS* Blkr.; replaces **CTENO-TRYPAUCHEN** Steind.
1116. BLEEKER (1874). *Révision des espèces d'Ambassis et de Parambassis de l'Inde archipélagique*. Nat. Verh. Holl. Maatsch. Wetensch., 3. verz., II, 1874, 83-106.
- PIETER BLEEKER.
- Parambassis** Bleeker, 102 (19, reprint); orthotype **AMBASSIS** *APOGONIDES* Blkr.
1117. BLEEKER (1874). *Révision des espèces insul-indiennes de la famille des Synanceoides*. Nat. Verh. Holl. Maatsch. Wetensch., 3. verz., II, 1874, 1-22.
- PIETER BLEEKER.
- Synanchia** (Swainson) Bleeker, 11; orthotype **SYNANCEIA** *EROSA* Cuv. & Val. A synonym of *EROSA* Sw. **SYNANCHIA** Sw. is plainly only a "wilful misprint" for **SYNANCEIA**. In any case, *EROSA* occurs on an earlier page in the same work and was intended for the same species.
- Leptosynanceia** Bleeker, 17; orthotype **SYNANCIA** *ASTROBLEPA* Rich. In this paper Bleeker cancels his earlier genus **SYNANCEICHTHYS** (*VERRUCOSA*), regarding it as intergrading with **SYNANCEJA** (*HORRIDA*). But the two seem fairly separable. The earliest subdivision of **SYNANCEJA**, that of Müller in 1843, leaves *VERRUCOSA* as the type of **SYNANCEJA**, *S. HORRIDA* being set off as **SYNANCIDIUM**. This arrangement apparently must stand. **SYNANCEICHTHYS**, with *SPURCO* (Commerson) and **EMMYDRICHTHYS** Jordan and Snyder, become synonyms of **SYNANCEJA**.
1118. COPE (1874). *On Some Batrachians and Nematognathi Brought from the Upper Amazon by Prof. Orton*. Proc. Acad. Nat. Sci. Phila., 1874, 120-137.
- EDWARD DRINKER COPE.
- Dysichthys** Cope, 133; orthotype **D.** *CORACOIDEUS* Cope.
1119. COPE (1874). *On the Plagopterina and the Ichthyology of Utah*. Proc. Amer. Philos. Soc., XIV, 122-139.
- EDWARD DRINKER COPE.

Plagopterus Cope, 130; orthotype *P. ARGENTISSIMUS* Cope.

Lepidomeda Cope, 131; orthotype *L. VITTATA* Cope.

1120. COPE (1874). *Description of Some Species of Reptiles Obtained by Dr. John F. Bransford, Assistant Surgeon United States Navy, . . . Nicaragua, etc.* Proc. Acad. Nat. Sci. Phila., 1874, 64-72.

EDWARD DRINKER COPE.

Protistius Cope, 66; orthotype *P. SEMOTILUS* Cope.

1121. COPE (1874). *Review of the Vertebrata of the Cretaceous Period Found West of the Mississippi River.* Bull. U. S. Geol. Surv. Terr., I.

EDWARD DRINKER COPE.

Pelecorapis Cope, 39; orthotype *P. VARIUS* Cope (fossil).

Tetheodus Cope, 43; orthotype *T. PEPPIREDO* Cope (fossil).

Sporetodus Cope, 47; orthotype *S. JANEVALL* Cope. A synonym of *PTYCHODUS* Ag.

1122. DYBOWSKI (1874). *Fische des Baikal-Wassersystemes.* Verh. K.-K. Zool.-Bot. Ges. Wien, XXIV.

BENEDIKT IVAN DYBOWSKI

Leucichthys Dybowski, 390; logotype *SALMO OMUL* Pallas, nearly or quite identical with *ARGYROSOMUS* Ag., which is preoccupied and replaced by *THRISSEMUS* Gill.

1123. GILL (1874). *On the Identity of Esox lewini With the Dinolestes mülleri of Klunzinger.* Am. Mag. Nat. Hist., XIV.

THEODORE GILL.

Gobiopus Gill, XIV, 159; orthotype not stated, a goby with the "first dorsal fin atrophied," as in *LUCIOGOBIUS* and *LEUCOPARION*. Apparently a synonym of *LUCIOGOBIUS* Gill.

1124. GÜNTHER (1874). *Descriptions of New Species of Fishes in the British Museum.* Ann. Mag. Nat. Hist., 1874, XIV, 368-371; 453-475.

ALBERT GÜNTHER.

Rhamphocottus Günther, 369; orthotype *R. RICHARDSONI* Gthr.

Gastromyzon Günther, 454, 453-475; orthotype *G. BORNEENSIS* Gth.

1125. HAAST (1874). *On Cheimarrichthys forsteri, a New Genus Belonging to the New Zealand Fresh-water Fishes.* Trans. New Zealand Instit., 1874, VI, 103-104.

JOHANN FRANZ JULIUS VON HAAST.

Cheimarrichthys Haast, 103; orthotype *C. FORSTERI* Haast.

1126. JONES (1874). *A New Fish (Lefroyia bermudensis).* Zoologist, 1874, II, 3837-3838.

JOHN MATTHEW JONES.

Lefroyia Jones, 3837; orthotype *L. BERMUDENSIS* Jones. A synonym of *CARAPUS* Raf. (*FIERASER* Cuv.)

1127. KESSLER (1874). *Pisces.* (In *Fedtschensko's Expedition to Turkestan. Zoogeographical Researches.*) Bull. Soc. Sci. Moscou, 1874, XI, 1-63.

KARL THEODOROVICH KESSLER (1815-1881)

Pseudodon Kessler, XI, 40; orthotype *P. LONGICAUDA* Kessler; name preoccupied.
A synonym of *PARACOBITIS* Blkr., 1863.

Diplophysa Kessler, 57; logotype *D. STRAUCHI* Kessler.

1128. LÜTKEN (1874). *Silurida novæ Brasiliæ centralis a clarissimo J. Reinhardt in provincia Minas-Geraës circa oppidulum Lagoa Santa, præcique in flumine rio das Velhas*, etc. Oversigt Dansk. Vid. Selsk., Kjöbenhavn, 1874, 29-36.

CHRISTIAN FREDERIK LÜTKEN.

Leporellus Lütken, 129; orthotype *LEPORINUS PICTUS* Kner.

1129. LÜTKEN (1874). *Characina novæ Brasiliæ centralis a clarissimo J. Reinhardt in provincia Minas-Geraës circa oppidulum Lagoa Santa in locu eiusdem nominis, flumine rio das Velhas*, etc. Oversigt Dansk. Vid. Forh. Kjöbenhavn, 1874 (1875), 127-143.

CHRISTIAN FREDERIK LÜTKEN.

Glanidium Lütken 31; orthotype *G. ALBESCENS* Lütken.

Bagropsis Lütken, 32; orthotype *B. REINHARDTI* Lütken.

1130. POEY (1874). *Monographie des poissons de Cuba compris dans la sous famille de Sparini*. Ann. Lyc. Nat. Hist. N. Y., X.

FELIPE POEY Y ALOY.

Grammateus Poey, 182; orthotype *PAGELLUS MICROPS* Guich. = *PAGELLUS PENNA* Cuv. & Val. A section under *CALAMUS* Sw.

1131. PROBST (1874). *Beitrag zur Kenntniss der fossilen Fische aus der Molasse von Baltringen*. Jahresb. Ver. Vaterl. Naturk. Württemberg, XXX.

JOSEF PROBST (1823-).

Sparoides Probst, XXX, 291; logotype *S. UMBONATUS* Probst (fossil).

1132. SAUVAGE (1874). *Notice sur les poissons tertiaires de l'Auvergne*. Bull. Soc. Hist. Nat. Toulouse, 1873-74, VIII, 171-198.

HENRI ÉMILE SAUVAGE.

Prolebias Sauvage, 187; logotype *P. GREGATUS* (Aymard) Sauvage (fossil).

Pachystetus (Aymard) Sauvage, 190; orthotype *LEBIAS AYMARDI* Sauvage = *PACHYSTETUS GREGATUS* Aymard MS. (noted in synonymy). A synonym of *PROLEBIAS* Sauvage.

1133. SAUVAGE (1874). *Notices Ichthyologiques*. Rev. Mag. Zool., 1874, II, 332-340.

HENRI ÉMILE SAUVAGE.

Oreias Sauvage, 334; orthotype *O. DABRYI* Sauvage. Apparently a synonym of *BARBATULA* Linck; same as *ORTHIRIAS* Jordan & Fowler of later date.

Sinibarbus Sauvage, 335; orthotype *S. VITTATUS* Sauvage.

Dolichthys Sauvage, 336; orthotype *D. STELLATUS* Sauvage.

Lepidoblennius Sauvage, 337; orthotype *L. CALEDONICUS* Sauvage. Name preoccupied (Steindachner, 1867), replaced by *SAUVAGEA* Jordan and Seale (1906).

Heteroleuciscus Sauvage, 339; orthotype *H. JULIENI* Sauvage.

1134. SAUVAGE (1874). *Révision des espèces du groupe des Épinoches*. Nouv. Arch. Mus., X, 5-32.

HENRI ÉMILE SAUVAGE.

- Gasterosteus** Sauvage, 7; orthotype **GASTEROSTEUS PUNGITIUS** L. A synonym of **PYGOSTEUS** Brevoort (1861).
- Gastræa** Sauvage, 7; orthotype **GASTEROSTEUS SPINACHIA** L. A synonym of **SPINACHIA** Cuv.
1135. SAUVAGE (1874). *Étude sur les poissons du Lias supérieur de la Lozère et de la Bourgogne*. Rev. Sci. Nat., II.
HENRI ÉMILE SAUVAGE.
- Cephenoplosus** Sauvage, II, 428; orthotype **C. TYPUS** Sauvage (fossil). A synonym of **PACHYCORMUS** Ag.
1136. STEINDACHNER (1874). *Ichthyologische Beiträge*. I. Sitzb. Akad. Wiss. Wien, 1874, LXX, 1. Abth., 355-390.
FRANZ STEINDACHNER.
- Pikea** Steindachner, 375; orthotype **GRYSTES LUNULATUS** Guich.
- Hemianthias** Steindachner, 380; orthotype **ANTHIAS PERUANUS** Steind.
1137. TRAUTSCHOLD (1874). *Die Kalkbrüche von Mjatschkoevo*, etc. Nouv. Mem. Soc. Imp. Natur., XIII, Moscou.
HERMANN VON TRAUTSCHOLD (1817-1902).
- Solenodus** Trautschold, 293; orthotype **S. CRENULATUS** Trautschold.
- Octinaspis** Trautschold, pl. 28; orthotype **PETRODUS SIMPLICISSIMUS** Trautschold (fossil).
1138. WINKLER (1874). *Mémoire sur les dents de poissons du terrain bruxellien*. Arch. Mus. Teyler, Haarlem.
TIBERIUS CORNELIUS WINKLER.
- Plicodus** Winkler, III, 301; orthotype **GINGLYMOSTOMA THIELENSIS** Noetling (fossil). A fossil homologue of **GINGLYMOSTOMA**.

1875

- 1139 BLEEKER (1875). *Notice sur les Eleotriiformes et description de trois espèces nouvelles*. Arch. Néerl. Sci. Nat., X, 1875, 101-112.
PIETER BLEEKER.
- Pogoneleotris** Bleeker, 107; orthotype **ELEOTRIS HETEROLEPIS** Gthr.
1140. BLEEKER (1875). *Description du genre Parascorpis et du son espèce-type*. Arch. Néerl. Sci. Nat., 1875, X, 380-382.
PIETER BLEEKER.
- Parascorpis** Bleeker, 380; orthotype **P. TYPUS** Blkr.
1141. BLEEKER (1875). *Révision des Sicydiini et Latrunculi de l'Insulindes*. Versl. Acad. Amsterdam, IX.
PIETER BLEEKER.
- Leptogobius** Bleeker, 22; orthotype **GOBIOUS OXYPTERUS** Blkr. (See also No. 1115.)
- 1142 BLEEKER (1875). *Recherches sur la faune de Madagascar et de ses dépendances d'après les découvertes de François P. L. Pollen et D. C. van Dam*. 4^e Partic. *Poissons de Madagascar et de l'île de la Réunion*. Leiden.
PIETER BLEEKER.

Paracæsis Bleeker, 92; orthotype *CÆSIO XANTHURUS* Blkr.

Paracirrhites Bleeker, 93; orthotype *CIRRHITES FORSTERI* Bloch. A synonym of *CIRRHITUS* Lac.

1143. BLEEKER (1875). *Sur la famille des Pseudochromidoides et révision de ses espèces insulindiennes*. Verh. Akad. Amsterdam, XV, 1875, 1-32.

PIETER BLEEKER.

Paraplesiops Bleeker, 3; orthotype *PLESIOPS BLEEKERI* Gthr. Replaces *BLEECKERIA* Castelnau, 1873, preoccupied.

Pseudogramma Bleeker, 24; orthotype *P. POLYACANTHUS* Blkr.

1144. CASTELNAU (1875). *Researches on the Fishes of Australia*. Philadelphia Centennial Expedition of 1876. Official Record, etc., 1875.

FRANCIS LAPORTE DE CASTELNAU.

A carelessly prepared paper, as usual with Castelnau. I am under obligation to Mr. Allan R. McCulloch of the Australian Museum for the identification of these and other nominal genera proposed for Australian fishes, by Castelnau, De Vis and others.

Neoniphon Castelnau, 4; orthotype *N. ARMATUS* Castelnau.

Breviperca Castelnau, 6; orthotype *B. LINEATA* Castelnau.

Neomesoprion Castelnau, 8; orthotype *N. UNICOLOR* Castelnau. Apparently a synonym of *LUTIANUS* Bloch.

Aida Castelnau, 10; orthotype *A. INORNATA* Castelnau. A synonym of *MELANOTÆNIA* Gill.

Neolethrinus Castelnau, 11; orthotype *N. SIMILIS* Castelnau.

Neoblennius Castelnau, 11; orthotype *N. FASCIATUS* Castelnau.

Neosillago Castelnau, 16; orthotype *N. MARMORATA* Castelnau.

Pseudobatrachus Castelnau, 24; orthotype *BATRACHUS STRIATUS* Castelnau, perhaps identical with *BATRACHOMÆUS* Ogilby of later date.

Stenophus Castelnau, 27; orthotype *S. MARMORATUS* Castelnau.

Neogunellus Castelnau, 27; orthotype *N. SULCATUS* Castelnau. A synonym of *OPHICLINUS* Castelnau.

Dampieria Castelnau, 30; orthotype *D. LINEATA* Castelnau; replaces *CICHLIPS* M. & T., preoccupied; same as *LABRACINUS* (Schlegel) Blkr., of slightly later date.

Neoatherina Castelnau, 31; orthotype *N. AUSTRALIS* Castelnau. A synonym of *MELANOTÆNIA* Gill.

Torresia Castelnau, 36; orthotype *T. AUSTRALIS* Castelnau. A synonym of *CHERODON* Blkr.

Neoodax Castelnau, 37; orthotype *N. WATERHOUSEI* Castelnau. A synonym of *ODAX* Cuv.

Othos Castelnau, 43; orthotype *O. CEPHALOTES* Castelnau.

Neorhombus Castelnau, 43; orthotype *N. UNICOLOR* Castelnau.

Neoplotosus Castelnau, 45; orthotype *N. WATERHOUSEI* Castelnau.

Neoscopelus Castelnau, 46; orthotype *SCOPELUS CEPHALOTES* Castelnau; name preoccupied.

Blanchardia Castelnau, 47; orthotype *B. MACULATA* Castelnau. A synonym of *NOTOGRAPTUS* Gthr.

1145. COLLETT (1875). *Norges fiske, med bemærkninger om deres Udbredelse*. Christiania.

ROBERT COLLETT (1842-1913).

Cottunculus Collett, 20; orthotype *C. microps* Collett.

Latrunculodes Collett, 60; orthotype *Gobius nilssonii* Dübén & Koren.

1146. COPE (1875). *The Vertebrata of the Cretaceous Formations of the West*. Rept. U. S. Geol. Surv. Terr., 1875, II, 1-303.

EDWARD DRINKER COPE.

Syllæmus Cope, 180; orthotype *S. latifrons* Cope (fossil).

Isotænia Cope, 222; orthotype *I. neocesariensis* Cope (fossil).

Pelecopterus Cope, II, 244; orthotype *Ichthyodectes perniciosus* Cope (fossil).
A synonym of *Protosphyrena* Leidy.

Bryactinus Cope, 282; orthotype *B. amorphus* Cope (fossil). A synonym of *Edaphodon* Leidy.

Diphriassa Cope, 283; orthotype *Ischyodus solidulus* Cope (fossil). A synonym of *Edaphodon*.

1147. COPE (1875). *On a New Genus (Osphyolax pellucidus) of Lophobranchiate Fishes*. Proc. Acad. Nat. Sci. Phila., 1875, 450.

EDWARD DRINKER COPE.

Osphyolax Cope, 450; orthotype *O. pellucidus* Cope. Apparently a synonym of *Nerophis* Raf.

1148. DAY (1875). *The Fishes of India*.

FRANCIS DAY.

Pseudosynanceia Day, 163; orthotype *P. melanostigma* Day.

1149. FRITSCH (1875). *Ueber die fauna der Gaskohle des Pilsner und Rakonitzer Beckens*. Sitzb. Königl. Böhm. Ges. Wiss. Prag.

ANTON JAN FRITSCH (1832-1914).

Osmerolepis Fritsch, IX, 70; orthotype *O. reticulata* Fritsch (fossil).

1150. NEWBERRY (1875). *Descriptions of Fossil Fishes*. Rept. Geol. Surv. Ohio, 1875, II, pt. 2 (Palæontology), 1-64.

JOHN STRONG NEWBERRY.

Asterosteus Newberry, 35; orthotype *A. stenocephalus* Newberry (fossil).

Acanthaspis Newberry, 36; orthotype *A. armatus* Newberry.

Acantholepis Newberry, 38; orthotype *A. pustulosus* Newberry. Name preoccupied, replaced by *Eczematolepis* Miller, 1892.

Platyodus Newberry, 58; orthotype *P. lineatus* Newberry.

Heliodus Newberry, 62; logotype *H. lesleyi* Newberry (fossil). A synonym of *Palædapius* Van Beneden.

1151. PETERS (1875). *Ueber eine neue mit Halicutra verwandte Fischgattung, Dibranchus, aus dem atlantischen Ocean, etc.* Monatsb. Akad. Wiss. Berlin, 1875 (1876), 736-742.

WILHELM CARL HARTWIG PETERS.

Dibranchus Peters, 736; orthotype *D. atlanticus* Peters.

1152. POEY (1875). *Enumeratio piscium cubensium*. Anal. Soc. Española Hist. Nat. Madrid, 1875, IV, 75-161; V, 131-218 (1876).

FELIPE POEY Y ALOY.

Moharra Poey, 124; orthotype *Gerres rhombeus* Cuv. A section under *Diapterus* Ranzani.

Microgobius Poey, V, 168; orthotype *M. signatus* Poey.

1153. SAUVAGE (1875). *Note sur les poissons fossiles*. Bull. Soc. Géol. France, 1875, sér. 3, III, 631-642.

HENRI ÉMILE SAUVAGE.

Lepidocottus Sauvage, 637; orthotype *COTTUS ARIES* Ag. (fossil).

Paraperca Sauvage, 639; orthotype *P. PROVINCIALIS* Sauvage (fossil).

Trachinopsis Sauvage, 641; orthotype *T. IBERICA* Sauvage (fossil).

1154. ST. JOHN & WORTHEN (1875). *Description of Fossil Fishes*. Geol. Surv. Ill., 1875, VI, 245-488.

ORESTES H. ST. JOHN; A. H. WORTHEN.

Phæbodus St. John & Worthen, 251; orthotype *P. SOPHILÆ* St. John & Worthen (fossil).

Bathycheilodus St. John & Worthen, 252; orthotype *B. MACISAACSI* St. John & Worthen (fossil). A synonym of *PHÆBODUS* St. John & Worthen.

Lambdodus St. John & Worthen, 280; orthotype *L. COSTATUS* St. John & Worthen (fossil).

Hybocladodus St. John & Worthen, 284; orthotype *H. FLICATILIS* St. John & Worthen (fossil).

Thrinacodus St. John & Worthen, 289, orthotype *T. NANUS* St. John & Worthen (fossil).

Mesodmodus St. John & Worthen, 290 logotype *M. EXSCULPTUS* St. John & Worthen (fossil).

Agassizodus St. John & Worthen, 311; orthotype *LOPHODUS VARIABILIS* St. John & Worthen (fossil). Substitute for *LOPHODUS* Newberry & Worthen, preoccupied. Both are synonyms of *CAMPODUS* Koninck, 1844.

Periplectrodus St. John & Worthen, 325; logotype *P. WARRENI* St. John & Worthen (fossil).

Stemmatodus St. John & Worthen, 330; logotype *S. CHEIRIFORMIS* St. John & Worthen (fossil). Name preoccupied, replaced by *STEMMATIAS* Hay, 1899.

Leiodus St. John & Worthen, 335; logotype *L. CALCARATUS* St. John & Worthen (fossil). Not *LEIODON* Sw.

Desmiodus St. John & Worthen, 341; orthotype *D. TUMIDUS* St. John & Worthen (fossil).

Venustodus St. John & Worthen, 344; orthotype *CHOMATODUS VENUSTUS* Leidy = *V. LEIDYI* St. John & Worthen (fossil).

Harpacodus St. John & Worthen, 354; orthotype *H. OCCIDENTALIS* St. John & Worthen.

Lisgodus St. John & Worthen, 363; logotype *L. CURTUS* St. John & Worthen (fossil). Perhaps a synonym of *PETALODUS*.

Tanaodus St. John & Worthen, 367; logotype *T. BELLICINCTUS* St. John & Worthen (fossil).

Calopodus St. John & Worthen, 403; orthotype; *C. APICALIS* St. John & Worthen (fossil).

Fissodus St. John & Worthen, 413; orthotype *F. BIFIDUS* St. John & Worthen (fossil).

Cholodus St. John & Worthen, 415; orthotype *C. INÆQUALIS* St. John & Worthen (fossil). Perhaps a synonym of *FISSODUS* St. John & Worthen.

Acondylacanthus St. John & Worthen, 432; logotype *A. GRACILIS* St. John & Worthen (fossil).

- Geisacanthus** St. John & Worthen, 440; orthotype *G. STELLATUS* St. John & Worthen (fossil). A synonym of *COSMACANTHUS* Ag.
Bythiacanthus St. John & Worthen, 444; orthotype *B. VANHORNEI* St. John & Worthen (fossil).
Glymmatacanthus St. John & Worthen, 446; orthotype *G. IRISHI* St. John & Worthen (fossil).
Amacanthus St. John & Worthen, 464; orthotype *HOMACANTHUS GIBBOSUS* Newberry & Worthen (fossil).
Marracanthus St. John & Worthen, 465; orthotype *HOMACANTHUS RECTUS* Newberry & Worthen (fossil).
Batacanthus St. John & Worthen, 468; orthotype *B. DACULIFORMIS* St. John & Worthen.
Gampsacanthus St. John & Worthen, 471; orthotype *G. TYPUS* St. John & Worthen (fossil).
Lecracanthus St. John & Worthen, 475; orthotype *L. UNGUICULUS* St. John & Worthen (fossil).

1155. SAUVAGE (1875). (*Poissons fossiles.*) Bibl. École des Hautes Études, XIII.

HENRI ÉMILE SAUVAGE.

- Heterothrissops**, Sauvage, 46; orthotype *H. INTERMEDIUS* Sauvage (fossil). A synonym of *EUTHYNOTUS* Wagner.
Pseudothrissops Sauvage, 46; orthotype *P. MICROPTERUS* Sauvage = *ESOX INCOGNITUS* Blainv. (fossil). A synonym of *EUTHYNOTUS*.

1156. STEINDACHNER (1875). *Beiträge der Kenntniss der Chromiden des Amazonenstromes.* Sitzb. Akad. Wiss. Wien, 1875, LXXI, 61-137.

FRANZ STEINDACHNER.

- Acaropsis** Steindachner, 99; orthotype *ACARA NASSA* Heckel.
Crenicara Steindachner, 99; orthotype *C. ELEGANS* Steind.
Dicrossus (Agassiz) Steindachner, 102; orthotype *D. MACULATUS* Steind.
Saraca Steindachner, 125; orthotype *S. OPERCULARIS* Steind.

1157. STEINDACHNER (1875). *Ueber eine neue Gattung und Art . . . aus der Familie der Pleuronectiden und über eine neue Thymallus-Art.* Sitzb. Akad. Wiss. Wien, 1875, LXX, 363-371.

FRANZ STEINDACHNER.

- Oncopterus** Steindachner, 365; orthotype *O. DARWINI* Steind.

1158. STEINDACHNER (1875). *Ichthyologische Beiträge.* II. Sitzb. Akad. Wiss. Wien.

FRANZ STEINDACHNER

- Neolabrus** Steindachner, 461; orthotype *N. FENESTRATUS* Steind.
Atherinella Steindachner, 477 (35, reprint); orthotype *A. PANAMENSIS* Steind.

1159. STEINDACHNER (1875). *Ichthyologische Beiträge.* III. Sitzb. Akad. Wiss. Wien, 1875 (June), LXXII, 29-96.

FRANZ STEINDACHNER.

- Parapsettus** Steindachner, 68 (50, reprint); orthotype *P. PANAMENSIS* Steind.
Neoliparis Steindachner, 72 (54, reprint); orthotype *LIPARIS MUCOSUS* Ayres.
Atherinops Steindachner, 89; (61, reprint); orthotype *ATHERINOPSIS AFFINIS* Ayres.
Cottoperca Steindachner, 69; orthotype *C. ROSENBERGI* Steind.

1160. TRAQUAIR (1875). *On Some Fossil Fishes from the Neighborhood of Edinburgh*. Ann. Mag. Nat. Hist., ser. 4, XV, 258-268.

RAMSAY HEATLEY TRAQUAIR.

Nematoptychius Traquair, 259; orthotype *PYGOPTERUS GREENOCKI* (Ag.) (fossil).

Wardichthys Traquair, 266; orthotype *W. CYCLOSOMA* Traquair (fossil).

1876.

1161. BLEEKER (1876). *Notice sur les genres Gymnocasio, Pterocasio, Paracasio et Liocasio*. Versl. Med. Akad. Nat., 1876, 149-154.

PIETER BLEEKER.

Gymnocasio Bleeker, 152; orthotype *CÆSIO GYMNOPTERUS* Blkr.

Pterocasio Bleeker, 153; orthotype *CÆSIO MULTIRADIATUS* Steind.

Liocasio Blkr., 153; orthotype *CÆSIO CYLINDRICUS* Blkr.

1162. BLEEKER (1876). *Sur la famille des Pseudochromidoides et révision de ses espèces insulindiennes*. Verh. Akad. Amsterdam, XV, 1-32.

PIETER BLEEKER.

Leptochromis Bleeker, 21; orthotype *PSEUDOCROMIS CYANOTÆNIA* Blkr.

1163. BLEEKER (1876). *Systema Percarum revisum*. Arch. Néerl. Sci. Nat., XI, 1876, Pars I, 247-288; Pars II, 289-340.

PIETER BLEEKER.

Phæthonichthys Bleeker, 256; orthotype *SERRANUS PHÆTON* Cuv., a fallacious specimen with the tail of a *FISTULARIA* fastened on the body of a *CEPHALOPHOLIS*. A synonym of *CEPHALOPHOLIS* (same as *URIPHÆTON* Sw.)

Percamia Bleeker, 260; orthotype *MICROPERCA YARRÆ* Castelnau, substitute for *MICROPERCA* Castelnau, preoccupied by *MICROPERCA* Putnam 1863.

Telescops Bleeker, 261; orthotype *POMATOMUS TELESOPHIUM* Risso. Substitute for *POMATOMUS* Cuvier, not of Lacépède. A synonym of *EPIGONUS* Raf.

Oxylabrax Bleeker, 264; orthotype *SCIÆNA UNDECIMALIS* Bloch. Name offered as a substitute for *CENTROPOMUS* Lac., as the first species named under *CENTROPOMUS* belongs to another genus.

Mesopristes Bleeker, 267; orthotype *M. MACRACANTHIUS* Blkr. (Note in passing, a synonym of *DATNIA* Cuv.)

Paristiopterus Bleeker, 268; orthotype *RICHARDSONIA INSIGNIS* Castelnau = *HISTIOPTERUS LABIOSUS* Gthr. A substitute for *RICHARDSONIA* Castelnau, 1872, preoccupied.

Pseudopentaceros Bleeker, 270; orthotype *PENTACEROS RICHARDSONI* Smith. Replaces *GILCHRISTIA* Jordan.

Paradentex Bleeker, 278; orthotype *GYMNOCRANIUS RIVULATUS* Klunzinger. A synonym of *GYMNOCRANIUS* Klunzinger.

Paraconodon Bleeker, 272; orthotype *CONODON PACIFICI* Gthr.

Mænas (Klein) Bleeker, 273; orthotype *SPARUS MÆNA* L. = *MÆNA VULGARIS* Cuv. & Val. A synonym of *MÆNA* Cuv.

Hemilutjanus Bleeker, 277; orthotype *PLECTROPOMA MACROPHTHALMUS* Tschudi. This name is no doubt badly chosen, but it cannot be replaced by *POMODON* Boulenger, 1895.

Banjós Bleeker, 277; orthotype *ANOPLUS BANJOS* Richardson = *BANJOS TYPUS* Blkr. A substitute for *ANOPLUS* T. & S., preoccupied.

- Synagris** (Klein) Bleeker, 278; orthotype *DENTEX VULGARIS* Cuv. & Val. A synonym of *DENTEX* Cuv.
- Puntazzo** Bleeker, 284; orthotype *CHARAX PUNTAZZO* Cuv. & Val. = *P. ANNULARIS* Blkr. A substitute for *CHARAX* Risso, regarded as preoccupied by *CHARAX* Gronow (1763).
- Mænichthys** (Kaup) Bleeker, 291; orthotype *DITREMA TEMMINCKI* Blkr. (passing reference in synonymy). A synonym of *DITREMA* T. & S.
- Pseudambassis** Bleeker, 292; orthotype *CHANDA LALA* Ham.
- Therapaina** (Kaup) Bleeker, 298; orthotype *CHÆTODON STRIGATUS* Langsdorff (passing notice in synonymy). A synonym of *MICROCANTHUS* Sw.
- Helotosoma** (Kaup) Bleeker, 298; orthotype *H. SERVUS* Kaup, said to be *ATYPUS STRIGATUS* Gthr. A synonym of *ATYPICHTHYS* Gthr.
- Cæsiosoma** (Kaup, 1863) Bleeker, 299; orthotype *C. SIEBOLDI* Kaup = *SCORPIS ÆQUIPINNIS* Rich., said to be a synonym of *SCORPIS*.
- Tylometopon** (Van Beneden) Bleeker, 299; orthotype *BRAMA RAJII* Bl. & Schn. (passing notice in synonymy). A synonym of *BRAMA* Cuv.
- Hemitaurichthys** Bleeker, 304; orthotype *CHÆTODON POLYLEPIS* Blkr.
- Chelmonops** Bleeker, 304; orthotype *CHÆTODON TRUNCATUS* Kner.
- Tetragonopterus** (Klein) Bleeker, 305; orthotype *CHÆTODON STRIATUS* L. A synonym of *CHÆTODON* L. as understood.
- Chætodontops** Bleeker, 304; orthotype *CHÆTODON COLLARIS* Bloch.
- Lepidochætodon** Bleeker, 306; orthotype *CHÆTODON UNIMACULATUS* Bloch.
- Oxychætodon** Bleeker, 306; orthotype *CHÆTODON LINEOLATUS* Q. & G.
- Gonochætodon** Bleeker, 306; orthotype *CHÆTODON TRIANGULUM* Kuhl & Van Hasselt.
- Chætodontoplus** Bleeker, 307; orthotype *HOLACANTHUS SEPTENTRIONALIS* T. & S.
- Acanthochætodon** Bleeker, 308; orthotype *HOLACANTHUS ANNULARIS* Lac.
- Amblytoxotes** Bleeker, 311; orthotype *TOXOTES squamosus* Hutton.
- Labracinus** (Schlegel) Bleeker, 320; orthotype *CICHLIPS CYCLOPISTHALMUS* M. & T. Same as *CICHLIPS* M. & T., preoccupied. Passing notice in synonymy. A synonym of *DAMPIERIA* Castelnau, 1875.
- Pteronemus** (Van der Hoeven) Bleeker, 315; orthotype *CHEILODACTYLUS FASCIATUS* Lac. (notice in synonymy). A synonym of *CHEILODACTYLUS* Lac.
- Cirrhiptera** (Kuhl & Van Hasselt) Bleeker, 322; (orthotype *Plesiops nigricans* Ruppell) (note in synonymy). A synonym of *Plesiops* Cuv.
- Larimodon** (Kaup MS., 1862) Bleeker, 329; orthotype *CORVINA DENTEX* Cuv. & Val. (misprinted *LAMNODON* in a later paper). A synonym of *ODONTOSCION* Gill.
- Paraplesiops** Bleeker, 332; orthotype *Plesiops bleekeri* Gthr.
- Brachymullus** Bleeker, 333; orthotype *UPENEUS TETRASPILUS* Gthr.
- Paraplesiichthys** (Kaup, 1862) Bleeker, 335; orthotype *ANCYLODON PARVIPINNIS* Gill (note in synonymy). A synonym of *ISOPISTHUS* Gill.
- Bogota** (Blyth) Bleeker, 336; passing reference. A synonym of *PRIACANTHUS* Cuv.
- Macrocephalus** (Browne) Bleeker, 336; orthotype *SCIENA UNDECIMALIS* Bloch. A substitute for *CENTROPOMUS* Lac. and *OXYLABRAX* Blkr. on the supposition that the names in the reprint of Browne's *Jamaica*, 1789, would be allowed as eligible.

1164. BLEEKER (1876). *Description de quelques espèces insulindiennes inédites des genres Oxyurichthys, Paroxyurichthys et Cryptocentrus*. Verh. Akad. Amsterdam (2) IX, 1876, 138-148.

PIETER BLEEKER

Paroxyurichthys Bleeker, 140; orthotype *P. TYPUS* Blkr.

1165. BLEEKER (1876). *Genera familiæ Scorpenoidcorum conspectus analyticus*. Versl. Akad. Amsterdam (2) IX, 1876, 294-300.

PIETER BLEEKER.

Parascorpæna Bleeker, 296; orthotype *SCORPÆNA PICTA* Kuhl & Van Hasselt.

Parapterois Bleeker, 296; orthotype *PTEROIS HETERURUS* Blkr.

Paracentropogon Bleeker, 297; orthotype *APISTUS LONGISPINIS* Cuv. & Val. Prob. ably to be regarded as a synonym of *HYPODYTES* Gistel.

Pseudopterus (Klein) Bleeker, 296; orthotype (after Klein) *GASTEROSTEUS VOLITANS* L. A synonym of *PTEROIS* Cuv.

Amblyapistus Bleeker, 297; orthotype *APISTUS TÆNIANOTUS* Cuv. & Val.

Pteroidichthys Bleeker, 297; orthotype *P. AMBOINENSIS* Blkr.

Cottapistus Bleeker, 298; orthotype *APISTUS COTTOIDES* Cuv. & Val.

Paraploactis Bleeker, 300; orthotype *P. TRACHYDERMA* Blkr.

1166. BLEEKER (1876). *Notice sur les genres et les espèces des Chaetodontoides de la sous-famille des Taurichthyiformes*. Versl. Akad. Amsterdam (2) X, 308-320.

PIETER BLEEKER.

Hemichætodon Bleeker, 313; orthotype *CHÆTODON CAPISTRATUS* Bloch.

1167. BLEEKER (1876). *Description de quelques espèces inédites de Pomacentroides de l'Inde Archipélagique*. Versl. Akad. Amsterdam.

PIETER BLEEKER.

Paraglyphidodon Bleeker, XII, 38; orthotype *P. ONYCEPHALUS* Blkr.

1168. CASTELNAU (1876). *Mémoire sur les poissons appelés barramundi par les aborigènes du nord-est de l'Australie*. Journ. Zool. (Gervais), 1876, V, 129-136.

FRANCIS L. CASTELNAU.

Neoceratodus Castelnau, 132; orthotype *N. BLANCHARDI* Castelnau. Prof. W. Baldwin Spencer of the University of Melbourne regards *NEOCERATODUS BLANCHARDI* as an unknown or perhaps fictitious fish, not to be identified with the *Dipneustan*, *CERATODUS FORSTERI* Krefft, which is the type of the genus *EPICERATODUS* Teller. Mr. McCulloch, however, thinks that *EPICERATODUS* is a synonym of *NEOCERATODUS*, Castelnau's account being an inaccurate description of the same fish. *NEOCERATODUS BLANCHARDI* is said to come from Fitzroy River, where the *FORSTERI* does not exist. According to Professor Spencer, the name *BARRAMUNDA* or *BARRAMUNDI*, used by Castelnau, belongs to the Serranoid fish *SCLEROPAGES LEICARDTI*, a valuable foodfish, which *EPICERATODUS* is not.

1169. COPE & YARROW (1876). *Report on the Collections of Fishes Made in Portions of Nevada, etc., in 1871-1874, by Prof. E. D. Cope and Dr. H. C. Yarrow*. Wheeler's Survey West of 100th Meridian, VI, Zoölogy.

EDWARD DRINKER COPE; HENRY CRÉCY YARROW.

Eritrema Cope, 645; orthotype *APOCOPE HENSHAWII* Cope. A synonym of *APOCOPE* Cope.

Pantosteus Cope, 673; orthotype *MINOMUS PLATYRHYNCHUS* Cope.

1170. COPE (1876). *On a New Genus of Fossil Fishes (Cyclotomodon vagrans)*.
Proc. Acad. Nat. Sci. Phila, 1876, V, 356-357.

EDWARD DRINKER COPE.

Cyclotomodon Cope, 355; orthotype *C. VAGRANS* Cope (fossil).

1171. COPE (1876). *Description of Some Vertebrate Remains from the Fort Union Beds of Montana*. Proc. Acad. Nat. Sci. Phila., 1876.

EDWARD DRINKER COPE.

Hedronchus Cope, 259; orthotype *H. STERNBERGI* Cope. A tooth, perhaps not of a fish.

Myledaphus Cope, 260; orthotype *M. BIPARTITUS* Cope.

1172. DAVIS (1876). *On a Bone Bed in the Lower Coal Measures*, etc. Quart. Journ. Geol. Soc., XXXII, 332-340.

JAMES WILLIAM DAVIS (1846-1893).

Hoplonchus Davis, XXXII, 336; orthotype *H. ELEGANS* Davis (fossil).

1173. DAY (1876). *The Fishes of India*. (Part 2.)

FRANCIS DAY.

Apocryptichthys Day, 302; orthotype *APOCRYPTES CANTORIS* Day.

Nangra Day, 494; orthotype *N. PUNCTATA* Day.

1174. EGERTON (1876). *Notice of Harpactes velox, a Predaceous Gonoid Fish . . . from the Lias of Lyme Regis*. Geol. Mag.

PHILIP DE MALPAS GREY EGERTON.

Harpactes Egerton, 441; orthotype *HARPACTES VELON* Egerton (fossil). Name preoccupied, later replaced by *HARPACTIRA* Egert.; a synonym of *OSTEORACHIS* Egert.

Harpactira Egerton, 576; orthotype *H. VELON* Egert. = *OSTEORACHIS MACROCEPHALUS* Egert. (fossil). Name a substitute for *HARPACTES*, preoccupied; a synonym of *OSTEORACHIS* Egert.

1175. GOODE (1876). *Catalogue of the Fishes of the Bermudos*, etc. Bull. U. S. Nat. Mus., V.

GEORGE BROWN GOODE (1851-1896).

Pareques (Gill) Goode, 50; orthotype *GRAMMISTES ACUMINATUS* Bl. & Schn.

1176. GÜNTHER (1876). *Remarks on Fishes, With Descriptions of New Fishes in the British Museum, Chiefly from Southern Seas*. Ann. Mag. Nat. Hist., 1876, ser. 4, XVII, 389-472.

ALBERT GÜNTHER.

Holoxenus Günther, 393; orthotype *H. CUTANEUS* Gthr. A synonym of *GNATHANACANTHUS* Blkr.

Neophrynichthys Günther, 396; orthotype *PSYCHROLUTES LATUS* Hutton.

1177. GÜNTHER (1876). *Contributions to Our Knowledge of the Fish-Fauna of the Tertiary Deposits of the Highlands of Pedang, Sumatra*. Geol. Mag., 1876, II, dec. 3, 433-440.

ALBERT GÜNTHER.

Hexapsephus Günther, 439; orthotype *H. GUENTHERI* Woodw. (fossil).

1178. JORDAN (1876). *Concerning the Fishes of the Ichthyologia Ohiensis*. Bull. Buffalo Soc. Nat. Hist., 1876, 91-97.

DAVID STARR JORDAN (1851-).

Erimyzon Jordan, 95; orthotype *CYPRINUS OBLONGUS* Mitchill.

1179. JORDAN (1876). *Manual of the Vertebrates of the Northern United States, Including the District East of the Mississippi River and North of North Carolina and Tennessee, Exclusive of Marine Species.*

DAVID STARR JORDAN.

Eutychelithus Jordan, 242; orthotype *CORVINA RICHARDSONI* Cuv. & Val., a deformed example of *APLODINOTUS GRUNNIENS* (Raf.) A synonym of *APLODINOTUS* Raf.

Eucalia Jordan, 248; orthotype *GASTEROSTEUS INCONSTANS* Kirtland. (Also in *Proc. Acad. Nat. Sci. Phila.*, 1877, 65.)

Erinemus Jordan, 279; orthotype *CERATICHTHYS HYALINUS* Cope = *RUTILUS AMBLOPS* Raf. A synonym of *HYBOPSIS* Ag.

Lythrurus Jordan, 272; orthotype "*SEMOTILUS DIPLÆMIUS* Raf." = *ALBURNUS UMBRATILIS* Grd. = *NOTROPIS LYTHRURUS* Jordan. *S. DIPLÆMIUS* Raf. is something different.

1180. KESSLER (1876). *Description of Fishes Collected by Col. Prejevalsky in Mongolia.* (Text in Russian.) (In *Prejevalsky, N. Mongolia i Strana Tangutov.* II, pt. 4, 1-36.)

KARL THEODOROVICH KESSLER.

Megagobio Kessler, 16; orthotype *M. NASUTUS* Kessler.

1181. NELSON (1876). *A Partial Catalogue of the Fishes of Illinois.* Bull. Ill. Mus. Nat. Hist., 1876, I, 33-52.

EDWARD WILLIAM NELSON (1855-).

Sternotremia Nelson, 39; orthotype *S. ISOLEPIS* Nelson, the young of *APHREDODERUS SAYANUS*, the vent farther back. A synonym of *APHREDODERUS* Le Sueur.

1182. MARCK (1876). *Fossile Fische von Sumatra.* Palæontologia, XXII.

W. VON DER MARCK.

Protosyngnathus von der Marck, XXII, 406; orthotype *P. SUMATRENSIS* Marck (fossil). A fossil homologue of *AULORHYNCHUS* Gill.

1183. OWEN (1876). *Catalogue of Fossils.* Report on South Africa.

RICHARD OWEN.

Hypterus Owen, IX, orthotype *H. BAINI* Owen (fossil). Names only; quoted by Woodward, 1891, as a synonym of *ATHIERSTONIA* Woodw., 1889.

1184. PETERS (1876). *Uebersicht der während der von 1874 bis 1876 unter der Commando des Hrn. Capitän z. S. Freiherrn von Schleinitz ausgeführten Reise S.M.S. Gazelle . . . Fische.* Monatsb. Akad. Wiss. Berlin, 1876, 831-854.

WILHELM CARL HARTWIG PETERS.

Idiacanthus Peters, 846; orthotype *I. FASCIOLA* Peters.

Stigmatonotus Peters, 838; orthotype *S. AUSTRALIS* Peters.

1185. STEINDACHNER (1876). *Die Süßwasser Fische der Südöstlichen Bräsilien.* III. Sitzb. Akad. Wiss. Wien, LXXIV, November, 1876.

FRANZ STEINDACHNER.

Wertheimeria Steindachner, 660 (101, reprint); orthotype *W. MACULATA* Steind.

Harttia Steindachner, 668 (110, reprint); orthotype *H. LORICARIFORMIS* Steind.

1186. STEINDACHNER (1876). *Ichthyologische Beiträge*. V. Sitzb. Akad. Wiss. Wien, 1876, LXXIV, 49-240.

FRANZ STEINDACHNER.

Hippoglossina Steindachner, 61 (13, reprint); orthotype *H. MACROPS* Steind.

Curimatopsis Steindachner, 81; orthotype *CURIMATUS MICROLEPIS* Steind.

Lutkenia Steindachner, 85; orthotype *L. INSIGNIS* Steind. Name preoccupied; replaced by *STICHANODON* Eigenmann, 1903.

Paragoniates Steindachner, 117 (69, reprint); orthotype *P. ALBURNUS* Steind.

Pimelodina Steindachner, 149 (101, reprint); orthotype *P. FLAVIFINNIS* Steind.

Lophiosilurus Steindachner, 155 (106, reprint); orthotype *L. ALEXANDRI* Steind.

Achiropsis Steindachner, 158 (110, reprint); orthotype *SOLEA NATTERERI* Steind.

Cynolebias Steindachner, 172 (124, reprint); orthotype *C. POROSUS* Steind.

Siphagonus Steindachner, 188 (140, reprint); orthotype *AGONUS SEGALIENSIS* Tilesius. A synonym of *BRACHYOPSIS* Gill.

Blakea Steindachner, 196 (148, reprint); orthotype *MYXODES ELEGANS* Cooper. A synonym of *GIBBONSIA* Cooper.

Bembrops Steindachner, 211 (163, reprint); orthotype *B. CAUDIMACULA* Steind.

1877

1187-1188. ALLEYNE & MACLEAY (1877). *The Ichthyology of the Chevert Expedition*. Proc. Linn. Soc. New S. Wales, 1877, 261-268; 321-359.

HAYNES GIBBES ALLEYNE; WILLIAM MACLEAY.

Pseudolates Alleyne & Macleay, 262; orthotype *P. CAVIFRONS* Alleyne & Macleay = *HOLOCENTRUS CALCARIFER* Bloch. A synonym of *LATES* Cuv.

Homalogrystes Alleyne & Macleay, 268; orthotype *H. GUENTHERI* Alleyne & Macleay. A synonym of *ACANTHOCHROMIS* Gill.

Gerreomorpha Alleyne & Macleay, 274; orthotype *G. ROSTRATA* Alleyne & Macleay.

Heptadecacanthus Alleyne & Macleay, 343; orthotype *H. LONGICAUDUS* Alleyne & Macleay. A synonym of *ACANTHOCHROMIS* Gill.

Cheilolabrus Alleyne & Macleay, 345; orthotype *C. MAGNILABRUS* Alleyne & Macleay. A synonym of *THALLIURUS* Sw. *HEMIGYMNUS* Gthr.

1189. BLEEKER (1877). *Notice sur les espèces nominales de Pomacentroïdes de l'Inde archipélagique*. Arch. Néerl. Sci. Nat., XII, 1877, 38-41

PIETER BLEEKER.

Glyphidodontops Bleeker, 41; orthotype *GLYPHIDODON ANTJERIUS* Blkr. A synonym of *CHIRYSIPTERA* Sw.

1190. BLEEKER (1877). *Mémoire sur les Chromides marins ou Pomacentroïdes de l'Inde archipélagique*. Nat. Verh. Holl. Maatsch. Wetensch., 3 Verz. II, 1877, 1-166.

PIETER BLEEKER.

Parapomacentrus Bleeker, 65; orthotype *POMACENTRUS POLYNEMA* Blkr.

Amblypomacentrus Bleeker, 68; orthotype *POMACENTRUS BREVICEPS* Blkr.

Eupomacentrus Bleeker, 73; orthotype *POMACENTRUS LIVIDUS* Blkr.

Brachypomacentrus Bleeker, 73; orthotype *POMACENTRUS ALBIFASCIATUS* Blkr.

1191. CASTELNAU (1877). *Australian Fishes. New or Little Known Species.* Proc. Linn. Soc. New S. Wales, 1877, II, 225-248.

FRANCIS LAPORTE CASTELNAU.

Brisbania Castelnau, 241; orthotype *B. STAIGERI* Castelnau.

Neosilurus Castelnau, 238; orthotype *N. AUSTRALIS* Castelnau. Name preoccupied, replaced by *CAINOSILURUS* Macleay.

Neoarius Castelnau, 237; orthotype *ARIUS CURTISI* Castelnau.

Beridia Castelnau, 229; orthotype *B. FLAVA* Castelnau. A synonym of *GNATHANACANTHUS* Blkr.

1192. COPE (1877). *On Some New and Little Known Reptiles and Fishes from the Austroriparian Region.* Proc. Amer. Philos. Soc., XVII.

EDWARD DRINKER COPE.

Xystroplites (Jordan) Cope, 67; orthotype *X. LONGIMANUS* Cope = *POMOTIS HOLBROOKI* Cuv. & Val. (In this case Cope suppressed his own proposed generic name in favor of one given almost simultaneously by Jordan.) Jordan's type, *X. GILLII*, seems to be the same as *POMOTIS PALLIDUS* Ag.

1193. COPE (1877). *Report on the Geology of the Region of the Judith River, Montana, etc.* Bull. U. S. Geol. Surv., III.

EDWARD DRINKER COPE.

Anogmius Cope, 584; orthotype *A. ARATUS* Cope, not *ANOGMIUS* Cope, 1871.

Pelycorapis Cope, 587; orthotype *P. VARIUS* Cope (fossil).

1194. COPE (1877). *Contribution to the Knowledge of the Ichthyological Fauna of the Green River Shales.* Bull. U. S. Geol. Surv. Terr., 1877, III, 807-819.

EDWARD DRINKER COPE.

Dapedoglossus Cope, 807; orthotype *D. TESTIS* Cope (fossil). A synonym of *PHAREODUS* Leidy.

Amphiplaga Cope, 812; orthotype *A. BRACHYPTERA* Cope (fossil).

Mioplosus Cope, 813; orthotype *M. LABRACOIDES* Cope (fossil).

Priscacara Cope, 816; orthotype *P. SERRATA* Cope (fossil).

1195. COPE (1877). *Notice of a New Locality of the Green River Shales Containing Fishes, Insects, and Plants in a Good State of Preservation.* Pal. Bull., XXV.

EDWARD DRINKER COPE.

Diplomystus Cope, 139; orthotype *D. DENTATUS* (fossil). Name regarded as preoccupied by *DIPLOMYSTES* Gthr., replaced by *COPEICHTHYS* Dollo.

1196. COPE (1877). *Descriptions of Extinct Vertebrates from the Permian and Triassic Formations of the United States.* Proc. Amer. Philos. Soc., XVII.

EDWARD DRINKER COPE.

Strigilina Cope, 182; orthotype *JANASSA GURLEIANA* Cope (fossil). A synonym of *JANASSA*.

1197. COPE (1877). *On Some New or Little Known Reptiles and Fishes of the Cretaceous, No. 3, of Kansas.* Proc. Amer. Philos. Soc., XVII.

EDWARD DRINKER COPE.

Oricardinus Cope, 177; orthotype *O. TORTUS* Cope (fossil).

Ptyonodus Cope, 192; orthotype *SAGENODUS VINSLOVI* Cope (fossil). A synonym of *SAGENODUS* Owen.

1198. CORNUEL (1877). *Description de débris de poissons fossiles . . . du calcaire neocomien . . . Haute Marne.* Bull. Géol. Soc. France.

J. CORNUEL.

Ellipsodus Cornuel, 617; orthotype *E. incisus* Cornuel (fossil).

1199. DYBOWSKI (1877). (*Fishes.*)

BENEDIKT IVAN DYBOWSKI.

(I have failed to find the work in which these Siberian fishes are described.)

Pristiodon Dybowski, VIII, 26; orthotype *P. siemionovi* Dybowski = *LEUCISCUS IDELLA* Val. A synonym of *CENOPIIARYNGODON* Steind.

Perccottus Dybowski, VIII, 28; orthotype *P. glenii* Dybowski (a goby; allied to *Gobiomorus* Lac.)

1200. FRITSCH (1877). *Die Reptilien und Fische der Böhmischen Kreideformation.* Prag.

ANTON JAN FRITSCH.

Sphærolepis Fritsch, 46; orthotype *S. kounoviensis* Fritsch (fossil).

1201. GARMAN (1877). *On the Pelvis and External Sexual Organs of Selachians, With Especial Reference to the New Genera Potamotrygon and Disceus.* Proc. Boston Soc. Nat. Hist., 1877, XIX, 197-215.

SAMUEL GARMAN (1846-).

Malacorchina Garman, 203; orthotype *RAJA MIRA* Garman.

Disceus Garman, 208; orthotype *TRYGON STRONGYLOPTERUS* Schomburgk.

Potamotrygon Garman, 210; orthotype *TRYGON HYSTRIX* M. & H.

1202. GILL (1877). *Synopsis of the Fishes of Lake Nicaragua.* Proc. Acad. Nat. Sci. Phila., 1877, 175-218.

THEODORE N. GILL.

Bramocharax Gill, 189; orthotype *B. BRANSFORDI* Gill.

1203. GILL (1877). *Annual Record of Industry and Science for 1876.*

THEODORE GILL.

Lycichthys Gill, CLXVII; orthotype *ANARRICHAS LATIFRONS* Steenstrup & Hallgrímsson.

1204. GILL & JORDAN (1877). (*The Sun-fish.*) Field & Forest, 1877, 190.

THEODORE GILL; DAVID STARR JORDAN.

Eupomotis Gill & Jordan, 190; orthotype *SPARUS AUREUS* Walbaum = *LABRUS GIBBOSUS* L.

- 1205 GÜNTHER (1877). *Preliminary Notes on New Fishes Collected in Japan During the Expedition of H.M.S. Challenger.* Ann. Mag. Nat. Hist., ser. 4, XX, 433-446.

ALBERT GÜNTHER.

Bathythrissa Günther, 443; orthotype *B. DORSALIS* Gthr. A synonym of *PTEROTHRISSEUS* Hilgendorf a little earlier in the same year.

1206. HILGENDORF (1877). (*Pterothrissus.*) Act. Soc. Leopoldina, III, Sept. 3, 1877.

FRANZ MARTIN HILGENDORF (1839 1892).

Pterothrissus Hilgendorf, 127 (Sept. 3, 1877); orthotype *P. gissu* Hilgendorf; replaces *BATHYTHRISSE* Gthr. (Nov. 1, 1877).

1207. JORDAN (1877). *On the Fishes of Northern Indiana*. Proc. Acad. Nat. Sci. Phila., 1877, 42-82.

DAVID STARR JORDAN.

Imostoma Jordan, 49; orthotype *HADROPTERUS SHUMARDI* Grd.

Copelandia Jordan, 56; orthotype *C. ERIARCHA* Jordan, an abnormal variant of *ENNEACANTHUS GLORIOSUS* (Holbrook). A synonym of *ENNEACANTHUS* Gill, based on an aberrant specimen. Also in *Bull. Buffalo Soc. Nat. Hist.*, 1877, 136.

Xenotis Jordan, 76; orthotype *POMOTIS FALLAX* Baird & Girard. A section under *LEPOMIS* Raf.

1208. JORDAN (1877). *A Partial Synopsis of the Fishes of Upper Georgia*. Ann. Lyc. N. Y., XI, 307-377.

DAVID STARR JORDAN.

Xenisma Jordan, 322; orthotype *HYDRARGYRA CATENATA* Ag. A subgenus under *FUNDULUS*.

Helioperca Jordan, 355; orthotype *POMOTIS INCISOR* Cuv. & Val. = *LABRUS PALLIDUS* Mitchill. A section under *LEPOMIS*.

1209. JORDAN (1877). *Notes on Cottidæ, Etheostomatidæ, Percidæ, Centrarchidæ, Aphrododeridæ, Dorysomatidæ, and Cyprinidæ, with Revisions of the Genera and Descriptions of New or Little Known Species*. Bull. U. S. Nat. Mus., 1877, X, 1-68.

DAVID STARR JORDAN.

Ammocrypta Jordan, 5; orthotype *A. BEANI* Jordan.

Nanostoma (Putnam) Jordan, 6; orthotype *PÆCILICHTHYS ZONALIS* Cope; regarded as preoccupied by *NANNOSTOMUS* Gthr.; replaced by *RHOITHÆCA* Jordan.

Ericosma Jordan & Copeland, 8; orthotype *ALVORDIUS EVIDES* Jordan & Copeland. A section under *HADROPTERUS* Ag.

Rheocrypta Jordan, 9; orthotype *R. COPELANDI* Jordan. A section under *COTTOGASTER* Putnam (1863).

Xystroplites Jordan, 24; orthotype *X. GILLI* Jordan. A section under *EUPOMOTIS* Gill & Jordan. (See No. 1192.)

Cynoperca Gill & Jordan, 44; orthotype *LUCIOPERCA CANADENSIS* C. H. Smith.

Mimoperca (Gill & Jordan) Jordan, 44; orthotype *PERCA VOLGENSIS* Pallas. A synonym of *SCHILUS* Krynicki (1832).

Elassoma Jordan, 50; orthotype *E. ZONATA* Jordan. Name (from ἐλασσώμα, a diminution) wrongly expanded to *ELASSOSOMA* in the *Zoological Record* for 1878.

Asternotremia (Nelson) Jordan, 51; orthotype *STERNOTREMIA ISOLEPIS* Nelson. A needless substitute name for *STERNOTREMIA* Nelson, thought to be anatomically not exact. A synonym of *APHREDODERUS* Le Sueur.

Episema Cope & Jordan, 64; orthotype *PHOTOGENIS SCABRICEPS* Cope. Name preoccupied, replaced by *PARANOTROPIS* Fowler.

Elattonistius Gill & Jordan, 67; orthotype *HYODON CHRYSOPSIS* Rich. = *AMPHIODON ALOSOIDES* Raf. A synonym of *AMPHIODON* Raf.

1210. JORDAN (1877). *Catalogue of Fishes of Ohio*. (In J. H. Klippart's *Report of the Fish Commission of Ohio for 1876*. Appendix (1877).

DAVID STARR JORDAN.

Erichæta Jordan, 147; orthotype *POMOTIS INCISOR* Cuv. & Val. A slip for *HELIOPERCA* due to uncorrected proof. A section under *LEPOMIS*.

1211. JORDAN & BRAYTON (1877). *On Lagochila, a New Genus of Catostomoid Fishes*. Proc. Acad. Nat. Sci. Phila., 1877, 280-283.

DAVID STARR JORDAN; ALBERT WINTHROP BRAYTON (1849-).

Lagochila Jordan & Brayton, 280; orthotype *L. LACERA* Jordan & Brayton. Name regarded as preoccupied by *LAGOCEILUS*; replaced by *QUASSILABIA* Jordan & Brayton.

1212. KESSLER (1877). *The Aralo-Caspian Expedition*. IV. *Fishes of the Aralo-Caspio-Pontine Region*. Trans. St. Petersburg Nat. Hist. Soc.

KARL THEODOROVICH KESSLER (1815-1881).

Clupeonella Kessler, 187; orthotype *C. GRIMI* Kessler.

1213. LEIDY (1877). *Descriptions of Vertebrate Remains Chiefly from the Phosphate Beds of South Carolina*. Journ. Acad. Nat. Sci. Phila., VIII.

JOSEPH LEIDY.

Mesobatis Leidy, 244; orthotype *ÆTÖBÄTIS EXIMIUS* Leidy (fossil). A synonym or homologue of *ÆTÖBÄTIS*.

Gryphodobatis Leidy, 249; orthotype *G. UNCUS* Leidy (fossil).

Acrodobatis Leidy, 250; orthotype *A. SERRA* Leidy (fossil). A homologue of *GINGLYMOSTOMA* M. & H.

Xiphodolamia Leidy, 252; orthotype *X. ENSIS* Leidy (fossil).

1214. MALM (1877). *Göteborgs och Bohusläns fauna*. Rygggradsdjuren.

AUGUST WILHELM MALM (1821-1882).

Æglefinus Malm, 481; orthotype *GADUS ÆGLEFINUS* L. = *ÆGLEFINUS* LINNÆI Malm. A synonym of *MELANOGRAMMUS* Gill.

Amblyraja Malm, 607; orthotype *RAJA RADIATA* Donovan.

Leucoraja Malm, 609; orthotype *RAJA FULLONICA* L.

1215. MARSH (1877). *Introduction and Succession of Vertebrate Life in America*. Amer. Journ. Sci., XIV.

OTHNIEL CHARLES MARSH.

Heliobatis Marsh, 376; orthotype *H. RADIANS* Marsh (fossil). Both names undefined, hence becoming valid only when located by Woodward, 1889. A synonym of *XIPHOTRYGON* Cope, 1879 (*X. ACUTIDENS*).

1216. PETERS (1877) *Ueber Epigonichthys cultellus, eine neue Gattung und Art der Leptocardii*. Monatsb. Akad. Wiss. Berlin, 1876 (1877), 322-327.

WILHELM (CARL HARTWIG) PETERS.

Epigonichthys Peters, 322; orthotype *E. CULTELLUS* Peters.

1217. PETERS (1877). *Ueber eine merkwürdige von Dr. Buchholz entdeckte neue Gattung von Süßwasserfischen, Pantodon buchholzi*, etc. Monatsb. Akad. Wiss. Berlin, 1876 (1877), 195-200.

WILHELM (CARL HARTWIG) PETERS.

Pantodon Peters, 196; orthotype *P. BUCHHOLZI* Peters.

1218. PETERS (1877). (*Fossil Fishes.*) Preuss. Akad.

WILHELM (CARL HARTWIG) PETERS.

Hemitrichas Peters, 682; orthotype *H. SCHISTICOLA* Peters (fossil).

1219. PROBST (1877). *Beitrag zur Kenntniss der fossile Fische aus der Molasse von Boltringen.* 11. Jahr. Verein. Vaterl. Naturk. Württemberg.

JOSEF PROBST.

Bates Probst, XXXIII, 88; logotype *B. SPECTABILIS* Probst (fossil). Not *BATIS* Bon.; an ally of *MYLIOBATIS*.

1220. SAUVAGE (1877). *Sur les Lepidotus palliatus et Sphaerodus gigas.* Bull. Soc. Géol. France.

HENRI ÉMILE SAUVAGE.

Eurystethus Sauvage, 629; orthotype *E. BRONGNIARTI* Sauvage (fossil).

Desmichthys Sauvage, 634; orthotype *D. DAUBREI* Sauvage (fossil).

1221. TRAQUAIR (1877). *On the Agassizian Genera Amblypterus, Palæoniscus, Gyrolepis and Pygopterus.* Quart. Journ. Geol. Soc., 1877, XXXIII, 548-578.

RAMSAY HEATLEY TRAQUAIR.

Gonatodus Traquair, 555; logotype *AMBLYPTERUS PUNCTATUS* Ag. (fossil).

Cosmoptychius Traquair, 553; orthotype *C. STRIATUS* Traquair (fossil). A synonym of *ELONICHTHYS* Giebel.

Acentrophorus Traquair, 565; orthotype *PALÆONISCUS VARIANS* Kirby (fossil).

Rhadinichthys Traquair, 559; logotype *PALÆONISCUS ORNATISSIMUS* L. (fossil).

1222. TRAQUAIR (1877). *Monograph on the Ganoid Fishes of the British Carboniferous Formations.* I.

RAMSAY HEATLEY TRAQUAIR.

Microconodus Traquair, 33; orthotype *M. MOLYNEUXI* Traquair (fossil), name only. Quoted by Woodward, 1891. A synonym of *GONATODUS*.

1223. WINTHER (1877). *Om de danske fiske af slægten Gobiüs.* Nat. Tidskr. Kjöbenhavn, XI.

GEORG WINTHER (1844-1879).

Lebetus Winther, 49; orthotype *GOBIOUS SCORPIOIDES* Collett.

1878.

1224. BARKAS (1878). *On the Microscopical Structure of Fossil Teeth from the Northumberland Coal Measures.* Monthly Review of Dental Surgery, VII.

WILLIAM JAMES BARKAS

Hybodopsis Barkas, 191; orthotype *H. WARDI* Barkas (fossil).

1225. BLEEKER (1878). *Sur deux espèces inédites de Cichloïdes de Madagascar.* Versl. Akad. Amsterdam (2), XII, 1878, 192-198.

PIETER BLEEKER.

Paracara Bleeker, 193; orthotype *P. TYPUS* Bleeker. A synonym of *PARATILAPIA* Blkr.

1226. BLEEKER (1878). *Quatrième mémoire sur la faune ichthyologique de la Nouvelle-Guinée*. Arch. Néerl. Sci. Nat. XIII, 1878, 35-66.

PIETER BLEEKER.

- Bathygobius* Bleekér, 54; logotype *Gobius nebulopunctatus* Cuv. & Val. Replaces *MAPO* Smitt (*G. soporator* Cuv. & Val.).
Symphysanodon Bleeker, 61; orthotype *S. typus* Blkr.

1227. BOSNIASKI (1878). *Studii sui pesci fossili del miocene del Gabbro*. Atti. Soc. Tosc. Sci. Nat. Pisa.

S. DE BOSNIASKI.

- Acanthonemopsis* Bosniaski, I, 19; orthotype *A. capellinii* Bosniaski (fossil).

1228. CASTELNAU (1878). *Notes on the Fishes of the Norman River*. Proc. Linn. Soc. New S. Wales, 1878, III, 41-51.

FRANCIS L. CASTELNAU

- Pseudoambassis* Castelnau, 43; logotype *P. macleayi* Castelnau. Apparently a synonym of *AMBASSIS* Cuv. Preoccupied by *PSEUDAMBASSIS* Blkr.

- Acanthoperca* Castelnau, 45; orthotype *A. gulliveri* Castelnau. A synonym of *AMBASSIS*.

- Gulliveria* Castelnau, 45; logotype *G. fusca* Castelnau = *APOGON aprion* Rich. A synonym of *GLOSSAMIA* Gill.

1229. CASTELNAU (1878). *On Several New Australian (Chiefly) Fresh-water Fishes*. Proc. Linn. Soc. New S. Wales, 1878, 140-144.

FRANCIS L. CASTELNAU.

- Aristeus* Castelnau, 141; logotype *A. fitzroyensis* Castelnau. Name preoccupied; a synonym of *MELANOTENIA* Gill, 1862.

- Eumeda* Castelnau, 143; orthotype *E. elongata* Castelnau. A synonym of *NEOSILURUS* Steind. (not *NEOSILURUS* Castelnau).

1230. CASTELNAU (1878). *Essay on the Ichthyology of Port Jackson*. Proc. Linn. Soc. New S. Wales, 1878, III, 347-402.

FRANCIS LAPORTE CASTELNAU.

- Neoanthias* Castelnau, 366; orthotype *N. guntheri* Castelnau. A synonym of *CAPRODON* T. & S.

- Agenor* Castelnau, 371; orthotype *AGENOR modestus* Castelnau. A synonym of *SCORPIS* Cuv. & Val.

- Zeodrius* Castelnau, 377; orthotype *Z. vestitus* Castelnau. A synonym of *GONIUSTIUS* Gill (1862).

1231. COLLETT (1878). *Fiske fra Nordhav's expeditionens sidste togt sommeren 1878*. Forh. Vidensk. Selsk. Christiania, 1878, XIV, 1-106.

ROBERT COLLETT

- Rhodichthys* Collett, 99; orthotype *R. regina* Collett.

- Paraliparis* Collett, 32; orthotype *P. bathybi* Collett.

1232. COPE (1878). *Synopsis of the Fishes of the Peruvian Amazon, Obtained by Prof. Orton During His Expeditions of 1873 and 1877*. Proc. Amer. Philos. Soc., 1878, XVII, 673-701.

EDWARD DRINKER COPE.

- Eapapterus* Cope, XVII, 677; orthotype *E. dispilurus* Cope.

- Chænothorax** Cope, 679; orthotype *C. bicarinatus* Cope.
Potamorphina Cope, 685; orthotype *Curimatus pristigaster* Steind.
Metynnis Cope, 693; orthotype *M. luna* Cope.
Gastropterus Cope, 700; orthotype *G. archæus* Cope. A synonym of *Basilichthys* Girard; name regarded as preoccupied by *Gastropteron*.
1233. COPE (1878). *Descriptions of Fishes from the Cretaceous and Tertiary Deposits West of the Mississippi River*. Bull. U. S. Geol. Surv., IV.
 EDWARD DRINKER COPE.
Triænaspis Cope, 67; orthotype *Leptotrachelus virgatulus* Cope (fossil).
Ichthyotringa Cope, IV, 69; orthotype *I. tenuirostris* Cope (fossil). A synonym of *Rhinellus* Ag.
1234. CLARKE (1878). *On Two New Fishes (Argyropelecus intermedius and Aegæonichthys appelti)*. Trans. Proc. New Zealand Instit., 1877 (1878), X, 243-246.
 F. E. CLARKE.
Aegæonichthys Clarke, 245; orthotype *A. appelti* Clarke.
1235. DUBALEN (1878). *Note sur un poisson mal connu du bassin de l'Adour*. Bull. Soc. Borda. Dax.
 ——— DUBALEN.
Aturius Dubalen, 157; orthotype *A. dufouri* Dubalen = *Cyprinus leuciscus* L. A synonym of *Leuciscus* Cuv.
1236. GILL (1878). *On a Remarkable Generic Type (Elopomorphus jordanii)*. Ann. Mag. Nat. Hist., 1878, ser. 5, III, 112.
 THEODORE NICHOLAS GILL.
Elopomorphus Gill, 112; orthotype *E. jordanii* Gill.
1237. GILL (1878). *Note on the Antennariidæ*. Proc. U. S. Nat. Mus., I, 221.
 THEODORE GILL.
Sympterichthys Gill, 222; orthotype *Lophius lævis* Lac.
1238. GILL (1878). *Note on the Cerotiidæ*. Proc. U. S. Nat. Mus., I.
 THEODORE GILL.
Mancalias Gill, 227; orthotype *Ceratias uranoscopus* Murray.
1239. GILL (1878). *Myxocyprinus* Gill. Johnson's Cyclopædia.
 THEODORE GILL.
Myxocyprinus Gill, 1574; orthotype *Carpiodes asiaticus* Blkr.
1240. GÜNTHER (1878). *Preliminary Notices of Deep-Sea Fishes Collected During the Voyage of H. M. S. Challenger*. Ann. Mag. Nat. Hist., ser. 5, II, 17-28, 179-187, 248-251.
 ALBERT GÜNTHER.
Bathyraco Günther, 18; orthotype *B. antarcticus* Gthr.
Melanonus Günther, 19; orthotype *M. gracilis* Gthr.
Bathynectes Günther, 20; logotype *B. laticeps* Gthr.
Typhlonus Günther, 21; orthotype *T. nasus* Gthr.
Aphyonus Günther, 22; orthotype *A. gelatinosus* Gthr.
Acanthonus Günther, 23; orthotype *A. armatus* Gthr.
Bathyophis Günther, 181; orthotype *B. ferox* Gthr.

Bathysaurus Gunther, 182; logotype *B. FERON* Gthr.
Bathypterois Günther, 183; logotype *B. LONGIFILIS* Gthr.
Ipnots Günther, 186; orthotype *I. MURRAYI* Gthr.
Bathylagus Günther, 248; logotype *B. ANTARCTICUS* Gthr.
Bathytroctes Günther, 249; logotype *B. MICROLEPIS* Gthr.
Platytröctes Günther, 249; orthotype *P. APUS* Gthr.
Xenodermichthys Günther, 250; orthotype *X. NODULOSUS* Gthr.
Cyema Günther, 251; orthotype *C. ATRUM* Gthr.

1241. HILGENDORF (1878). *Ueber das Vorkommen einer Brama-Art und einer neuen Fischgattung Centropholis aus der Nachbarschaft des Genus Brama in den japanischen Meeren.* Sitzb. Ges. Naturf. Freunde Berlin, 1878, 1-2.

FRANZ MARTIN HILGENDORF.

Centropholis Hilgendorf, 1; orthotype *C. PETERSI* Hilgendorf.

1242. HILGENDORF (1878). *Ueber einige neue japanische Fischgattungen.* Sitzb. Ges. Naturf. Freunde Berlin, 1878, 155-157.

FRANZ MARTIN HILGENDORF

Megaperca Hilgendorf, 155; orthotype *M. ISCHINAGI* Hilgendorf. A synonym of *STEREOLEPIS* Ayres.

Liobagrus Hilgendorf, 155; orthotype *L. REINI* Hilgendorf.

1243. JORDAN (1878). *Manual of the Vertebrates of the Northern United States, Including the District East of the Mississippi River and North of North Carolina and Tennessee. Exclusive of Marine Species.* 2d ed., 1-407.

DAVID STARR JORDAN.

Quassilabia Jordan & Brayton, 406; orthotype *LAGOCHILA LACERA* Jordan & Brayton. Substitute for *LAGOCHILA* Jordan & Brayton, regarded as preoccupied by *LAGOCHILUS*, a genus of mollusks.

Tauridea Jordan & Rice, 255; orthotype *COTTUS RICEI* Nelson.

Prosopium (Milner) Jordan, 261; orthotype *COREGONUS QUADRILATERALIS* Rich. The name *PROSOPIMUM* was proposed by James W. Milner of the U. S. Fish Commission in a *Review of the American Whitefishes*, written in 1878, but left incomplete through the untimely death of the author.

Ulocentra Jordan, 223; orthotype, *ARLINA ATRIPINNIS* Jordan.

Minytrema Jordan, 318; orthotype *CATOSTOMUS MELANOPS* Raf.

1244. JORDAN & BRAYTON (1878). *Contributions to North American Ichthyology, III. B. On the Distribution of the Fishes of the Allegany Region of South Carolina, Georgia, and Tennessee, With Descriptions of New or Little Known Species.* Bull. U. S. Nat. Mus., 1878, XII, 1-95.

DAVID STARR JORDAN; ALEMBERT WINTHROP BRAYTON (1849-).

Hydrophlox Jordan, 18; orthotype *HYBOPSIS RUBRICROCEUS* Cope.

Erogala Jordan & Brayton, 20; orthotype *PHOTOGENIS STIGMATURUS* Jordan. A section under *CYPRINELLA* Grd.

Cristivomer Gill & Jordan, 69; orthotype *SALMO NAMAYCUSH* Walbaum.

Ioia Jordan & Brayton, 88; orthotype *PÆCILICHTHYS VITREUS* Cope.

Vaillantia Jordan, 89; orthotype *BOLEOSOMA CAMURUM* Forbes.

1245. JORDAN (1878). *Report on the Collection of Fishes Made by Dr. Elliott Coues in Dakota and Montana, etc.* Bull. U. S. Geol. Surv., IV

DAVID STARR JORDAN.

Couesius Jordan, 785; orthotype *NOCOMIS MILNERI* Jordan = *GOBIO PLUMBEUS* Ag.

- Zophendum** Jordan, 786; orthotype *HYBORHYNCHUS SIDERIUS* Cope = *AGOSIA CHRYSOGASTER* Grd. A synonym of *AGOSIA* Grd.
- Chriope** Jordan, 787; orthotype *HYBOPSIS BIFRENATUS* Cope.
- Symmetrurus** Jordan, 788; orthotype *POGONICHTHYS ARGYREIOSUS* Grd., the young of *P. INÆQUILIBUS* Grd. A synonym of *POGONICHTHYS*.
1246. JORDAN (1878). *Notes on a Collection of Fishes from the Rio Grande at Brownsville, Texas.* Bull. U. S. Geol. Surv. Terr., 1878, IV, 397-406, 663-667.
DAVID STARR JORDAN.
(A few very young EMBIOTOCOID fishes from San Francisco were unfortunately mixed with this collection and wrongly described as new.)
- Sema** Jordan, 399; orthotype *S. SIGNIFER* Jordan; a larval form of *CYMATOGASTER AGGREGATUS* Gibbons. A synonym of *CYMATOGASTER* Gibbons.
- Dacentrus** Jordan, 667; orthotype *D. LUCENS* Jordan; the young of *HYSTEROCARPUS TRASKI* Gibbons. A synonym of *HYSTEROCARPUS* Gibbons.
1247. JORDAN (1878). *A Catalogue of Fishes of the Fresh Waters of North America.* Bull. U. S. Geol. Surv. Terr., 1878, IV., 407-442.
DAVID STARR JORDAN.
- Chasmistes** Jordan, 417; orthotype *CHASMISTES LIORUS* Jordan, a species wrongly supposed to be the same as *CATOSTOMUS FECUNDUS* Cope & Yarrow.
1248. JORDAN & GILBERT (1878). *Notes on the Fishes of Beaufort Harbor, North Carolina.* Proc. U. S. Nat. Mus., I.
DAVID STARR JORDAN; CHARLES HENRY GILBERT (1859-).
- Chriolax** Jordan & Gilbert, 374; orthotype *TRIGLA EVOLANS* L. A synonym of *PRIONOTUS* Lac.
1249. JORDAN (1878). (*Notes on Fishes of Ohio.*) Second Report Ohio Fish Commission; John H. Klippart, Commissioner.
DAVID STARR JORDAN.
- Mascalongus** Jordan, 92; orthotype *ESOX MASQUINONGY* Mitchill = *ESOX NOBILIOR* Thompson.
1250. KONINCK (1878). *Faune du calcaire carbonifère de la Belgique; première partie.* Ann. Mus. Roy. Hist. Nat. Belgique, 1878, II, 1-152.
LAURENT DE KONINCK.
- Benedenius** (Traquair) Koninck, 14; orthotype *B. DENEENSIS* Traquair (fossil). Name preoccupied, replaced by *BENEDENICHTHYS* Traquair, 1890.
- Serratodus** Koninck, 53; orthotype *S. ELEGANS* Koninck (fossil). A synonym of *CTENOPTYCHIUS* Ag.
- Stichæacanthus** Koninck, 70; orthotype *S. COEMANSI* Koninck (fossil).
1251. MACLEAY (1878). *Description of Some New Fishes from Port Jackson and King George's Sound.* Proc. Linn. Soc. New S. Wales, 1878, III, 33-38.
WILLIAM MACLEAY.
- Isosillago** Macleay, 34; orthotype *I. MACULATA* Macleay. A synonym of *SILLAGINODES* Gill.
1252. NEWBERRY (1878). *Descriptions of New Paleozoic Fishes.* Ann. N. Y. Acad. Sci., 1878, I, 188-192.
JOHN STRONG NEWBERRY.
- Diplurus** Newberry, 127; orthotype *D. LONGICAUDATUS* Newberry (fossil).

Diplognathus Newberry, 188; orthotype *D. MIRABILIS* Newberry (fossil).
Archæobatis Newberry, 190; orthotype *A. GIGAS* Newberry (fossil).

1253. NEWTON (1878). *The Chimaeroid Fishes of the British Cretaceous Strata.*
 Mem. Geol. Surv. United Kingdom, 1878, Monograph IV, 1-50.

EDWIN TULLY NEWTON (1840-).

Elasmognathus Newton, 43; orthotype *E. WILLETTII* Newton (fossil). Name pre-
 occupied in HEMIPTERA, replaced by *ELASMODECTES* Newton, 1888.

1254. SAUVAGE (1878). *Note sur quelques Cyprinida et Cobitina d'espèces*
inédites, provenant des eaux douces de la Chine. Bull. Soc. Philom. Paris,
 VII, sér. 2, 86-90.

HENRI ÉMILE SAUVAGE.

Agenigobio Sauvage, 87; orthotype *A. HALSONETI* Sauvage.

Crossostoma Sauvage, 89; orthotype *C. DAVIDI* Sauvage.

Paramisgurnus Sauvage, 90; orthotype *P. DABRYANUS* Sauvage.

1255. SAUVAGE (1878). *Note sur quelques poissons d'espèces nouvelles prove-*
nant des eaux douces de l'Indo-Chine. Bull. Soc. Philom. Paris, 1878, VII,
 sér. 2, 233-242.

HENRI ÉMILE SAUVAGE.

Cosmochilus Sauvage, 240; orthotype *C. HARMANDI* Sauvage.

1256. SAUVAGE (1878). *Description de poissons nouvelles ou imparfaitement*
connus, etc. Nouv. Arch. Mus. Nat. Hist. Paris, II.

HENRI ÉMILE SAUVAGE.

Pseudosebastes Sauvage, 115; orthotype *SEBASTES BOUGAINVILLEI* Cuv. & Val.

Eusebastes Sauvage, 115; orthotype *SEBASTES SEPTENTRIONALIS* Gaimard. A syno-
 nym of *SEBASTES* Cuv.

Elaphocottus Sauvage, 142; logotype *COTTUS PISTILLIGER* Pallas. A synonym of
GYMNOCANTHUS Sw.

1257. STEINDACHNER (1878). *Ichthyologische Beiträge.* VII. Sitzb. Akad.
 Wiss. Wien, 1878 (1879). LXXVIII, 1. Abth., 377-400.

FRANZ STEINDACHNER.

Neomyxus Steindachner, 384; orthotype *MYXUS SCLATERI* Steind.

Leptobrama Steindachner, 388; orthotype *L. MUELLERI* Steind.

Cratinus Steindachner, 395; orthotype *C. AGASSIZI* Steind.

1258. STREETS (1878). *Contributions to the Natural History of the Hawaiian*
and Fanning Islands and Lower California. Bull. U. S. Nat. Mus., 1878, VII,
 43-102.

THOMAS HALE STREETS (1847-).

Sebastapistes (Gill) Streets, 62; orthotype *SEBASTES STRONGIA* Cuv. & Val.

1259. VAILLANT & BOCOÛRT (1878). *Études sur les poissons.* Mission
 Scientifique au Mexique, etc., IV.

LÉON LOUIS VAILLANT; FIRMIN BOCOÛRT.

Itaiara Vaillant & Bocourt, 67; orthotype *SERRANUS ITAIARA* Lichtenstein = *PERCA*
GUTTATA L. A synonym of *PROMICROPIS* Poey.

1260 WINKLER (1878). *Mémoire sur quelques restes de poissons du système*
heersien. Arch. Mus. Teyler Haarlem, IV.

TIBERIUS CORNELIUS WINKLER.

Cycloides Winkler, 3; orthotype *C. incisus* Winkler (fossil). A fragment perhaps not of a fish.

Trigonodus Winkler, 14; orthotype *SQUATINA PRIMA* Noetling (fossil). A synonym of *THAUMAS* Münster.

1261. WINKLER (1878). *Deuxième Mémoire sur les dents de poissons fossiles du terrain bruxellien*. Arch. Mus. Teyler Haarlem.

TIBERIUS CORNELIUS WINKLER.

Trichiurides Winkler, 31; orthotype *T. sagittidens* Winkler (fossil).

1879.

1262. BASSANI (1879). *Vorläufige Mittheilungen über die (fossil) Fischfauna der Insel Lesina*. Verh. Geol. Reichsanst. Wien, 1879, 162-170.

FRANCESCO BASSANI.

Aphanepygus Bassani, 162; Orthotype *A. elegans* Bassani (fossil). A synonym of *PETALOPTERYX* Pictet.

Prochanos Bassani, 165; orthotype *P. rectifrons* Bassani (fossil).

Hemielopopsis Bassani, 166; orthotype *H. suessi* Bassani (fossil). An extinct homologue of *HISTIALOSA*.

1263. BEAN (1879). *Description of Some Genera and Species of Alaskan Fishes*. Proc. U. S. Nat. Mus., II.

TARLETON HOFFMAN BEAN (1846-1918.)

Melletes Bean, 354; orthotype *M. papilio* Bean.

Dallia Bean, 358; orthotype *D. pectoralis* Bean.

1264. BLEEKER (1879). *Mémoire sur les poissons à pharyngiens labyrinthiformes de l'Inde archipélagique*. Verh. Akad. Amsterdam, XIX, 1879, 1-56.

PIETER BLEEKER.

Pseudosphromenus Bleeker, 2; orthotype *OSPHROMENUS OPERCULARIS* Blkr.

Parosphromenus Bleeker, 20; orthotype *P. deissneri* Blkr.

1265. BLEEKER (1879). *Révision des espèces insulindiennes de la famille des Calionymoides*. Versl. Akad. Amsterdam (2), XIV, 1879, 79-107.

PIETER BLEEKER.

Eleutherochir Bleeker 103; orthotype *E. opercularioides* Blkr.

1266. BLEEKER (1879). *Sur quelques espèces inédites ou peu connues de poissons de Chine appartenant au Muséum de Hambourg*. Verh. Akad. Amsterdam XVIII, 1879, 1-17.

PIETER BLEEKER.

Hemiglyphidodon Bleeker, 8; orthotype *H. plagiometopon* Blkr.

1267. BLEEKER (1879). *Énumération des espèces de poissons actuellement connues du Japon et description de trois espèces inédites*. Verh. Akad. Amsterdam, XVIII, 1879, 1-33.

PIETER BLEEKER.

Lepidorhynchus Bleeker, 21; orthotype *L. villosus* Blkr.

1268. CAMPBELL (1879). *On a New Fish (Discus aureus)*. Trans. Proc. New Zeal. Instit., XI, 297-298.

W. D. CAMPBELL.

Discus Campbell, 298; orthotype *D. AUREUS* Campbell.

1269. CASTELNAU (1879). *On a New Ganoid Fish from Queensland*. Proc. Linn. Soc. New S. Wales, 1878, III, 164-165.

FRANCIS L. CASTELNAU.

Ompax Castelnau, 165; orthotype *O. SPATULOIDES* Castelnau. This species is based on a drawing, probably a rough representation of *EPICERATODUS* Teller. Macleay doubts the actual existence of the genus or species.

1270. CASTELNAU (1879). *On Several New Australian Fresh-water Fishes*. Proc. Linn. Soc., III.

FRANCIS L. CASTELNAU.

Aristeus Castelnau, 141; orthotype *A. FITZROYENSIS* Castelnau. Preoccupied in CRUSTACEA; replaced by *RHOMBATRACTUS* Gill. A synonym of *MELANOTÆNIA* Gill.

1271. COLLETT (1879). *On a New Fish of the Genus Lycodes from the Pacific*. Proc. Zool. Soc. London.

ROBERT COLLETT.

Lycodopsis Collett, 386; orthotype *LYCODES PACIFICUS* Collett (issued August 1, 1879). Same as *LEURYNNIS* Lockington (March 25, 1880).

1272. COPE (1879). *A Sting Ray (Xiphotrygon acutidens) from the Green River Shales of Wyoming*. Amer. Natural., 1879, XIII, 333.

EDWARD DRINKER COPE.

Xiphotrygon Cope, 333; orthotype *X. ACUTIDENS* Cope (fossil).

1273. DAVIS (1879). *Notes on Pleurodus . . . and . . . Three Spines of Cestracionts from the Lower Coal Measures*. Quart. Journ. Geol. Soc., XXXV.

JAMES WILLIAM DAVIS.

Phricacanthus Davis, 186; orthotype *P. BISERIALIS* Davis (fossil). Probably a synonym of *ORACANTHUS* Ag.

1274. DAVIS (1879). *On Ostracacanthus . . . a Fossil Fish from the Coal Measures Southeast of Halifax, Yorkshire*. Reprint Brit. Assn. Adv. Sci., 1879.

JAMES WILLIAM DAVIS.

Ostracacanthus Davis, 343; orthotype *O. DILATATUS* Davis.

1275. GILL (1879) (*Rhombatractus*). Amer. Natural., 1879.

THEODORE GILL.

Rhombatractus Gill, 709, orthotype *ARISTEUS FITZROYENSIS* Castelnau. Substitute for *ARISTEUS* Castelnau, preoccupied. A synonym of *MELANOTÆNIA* Gill, 1862.

1276. GOODE & BEAN (1879). *A Preliminary Catalogue of the Fishes of the St. Johns River and the East Coast of Florida . . .* Proc. U. S. Nat. Mus., II.

GEORGE BROWN GOODE, TARLETON HOFFMAN BEAN.

Jordanelia Goode & Bean, 117; orthotype *J. FLORIDÆ* Goode & Bean.

1277. GOODE & BEAN (1879). *Description of a New Genus and Species of Fish, Lopholatilus chamaeleonticeps, from the South Coast of New England.* Proc. U. S. Nat. Mus., II, 205-209.

GEORGE BROWN GOODE; TARLETON HOFFMAN BEAN.

Lopholatilus Goode & Bean, 205; orthotype *L. CHAMÆLEONTICEPS* Goode & Bean.

1278. JORDAN (1879). *Description of New Species of North American Fishes.* Proc. U. S. Nat. Mus., II, 235-241.

DAVID STARR JORDAN

Xiphister Jordan, 241; orthotype *XIPHIDION MUCOSUM* Grd. A substitute for *XIPHIDION* Grd., regarded as preoccupied by *XIPHIDIUM*, a genus of grasshopper.

1279. JORDAN (1879). *Note on a Collection of Fishes Obtained in the Streams of Guanajuato and in Chapala Lake, Mexico, by Prof. A. Dugès.* Proc. U. S. Nat. Mus., II, 299-301.

DAVID STARR JORDAN.

Goodea Jordan, 299; orthotype *G. ATRIPINNIS* Jordan.

1280. GORJANOVIC-KRAMBERGER (1879). *Beiträge zur Kenntniss der fossilen Fische der Karpathen.* Palæontographica, XXVI.

DRAGUTIN GORJANOVIC-KRAMBERGER.

Megalolepis Kramberger, 61; orthotype *M. CASHCENSIS* Kramberger (fossil).

1281. KESSLER (1879). *Beiträge zur Ichthyologie von Central-Asien.* Bull. Acad. Sci. St. Petersburg., 1879, XXV, 282-310.

KARL THEODOROVICH KESSLER.

Aspiorhynchus Kessler, 289; orthotype, *A. PREZWALSKII* Kessler.

1282. LOCKINGTON (1879). *Description of New Genera and Species of Fishes from the Coast of California.* Proc. U. S. Nat. Mus., II, 326-332.

WILLIAM NEALE LOCKINGTON (1842-1902).

Leurynnis Lockington, 326; orthotype *LEURYNNIS PAUCIDENS* Lockington (male of *LYCODOPSIS PACIFICUS* Collett) (issued March 25, 1880). A synonym of *LYCODOPSIS* Collett (Aug. 1, 1879).

Odontopyxis Lockington, 326; orthotype *O. TRISPINOSUS* Lockington.

1283. LOCKINGTON (1879). *On a New Genus of Scombridae.* Proc. Acad. Nat. Sci. Phila., 1879, 133-136.

WILLIAM NEALE LOCKINGTON.

Chriomitra Lockington, 133; orthotype *C. CONCOLOR* Lockington. A synonym of *SCOMBEROMORUS* Lac.

1284. SAUVAGE (1879). *Notice sur la faune ichthyologique de l'Ogôoué.* Bull. Soc. Philom. Paris, sér. 7, III, 90-103.

HENRI ÉMILE SAUVAGE.

Micracanthus Sauvage, 95; orthotype *M. MARCHII* Sauvage. Name preoccupied by *MICROCANTHUS* (*MICRACANTHUS*) Sw. (1839). Being apparently a valid genus, the name has been replaced by *OSHIMIA* Jordan, 1919, in honor of Masamitsu Oshima.

Doumea Sauvage, 96; orthotype *D. TYPICA* Sauvage.

Atopochilus Sauvage, 96; orthotype *A. SAVORGNANI* Sauvage.

1285. SAUVAGE (1879). *Description de gobioides nouveaux ou peu connus de la collection du Muséum d'Histoire Naturelle*. Bull. Sci. Philom. Paris.

HENRI ÉMILE SAUVAGE.

Giuris Sauvage, 15; logotype *G. VANICOLENSIS* Sauvage (no generic diagnosis), near *HYPSELEOTRIS* Gill.

1286. SAUVAGE (1879). (*Uranoplosus*.) Bull. Soc. Yonne, XXXII.

HENRI ÉMILE SAUVAGE.

Uranoplosus Sauvage, 47; orthotype *U. COTTEAUI* Sauvage (fossil).

Cosmodus Sauvage, 48; orthotype *C. GRANDIS* Sauvage (specific name preoccupied) = *CÆLODUS MAJOR* Woodward. May replace *CÆLODUS* Heckel (1856), regarded as preoccupied by *CÆLODON* Lund (1839).

1287. STEINDACHNER (1879). *Zur Fischfauna des Magdalenen-Stromes*. Denkschr. Akad. Wiss. Wien, XXXIX, 19-78.

FRANZ STEINDACHNER.

Luciocharax Steindachner, 67; orthotype *L. insculptus* Steind. A synonym of *Ctenolucius* Gill (1861), but in the latter case no specific name was given.

1288. STEINDACHNER (1879). *Ueber einige neue und seltene Fisch-Arten aus den k.-k. zoologischen Museum zu Wien, Stuttgart, und Warschau*. Denkschr. Akad. Wiss. Wien, XLI, 1-52.

FRANZ STEINDACHNER.

Parequula Steindachner, 8; orthotype *P. BICORNIS* Steind.

1289. TRAUTSCHOLD (1879). *Ueber Fischzähne des Moskauer Jura*. Bull. Soc. Imp. Nat. Moskau, XIV.

HERMANN VON TRAUTSCHOLD.

Cymatodus Trautschold, 53; *C. Plicatulus* Trautschold (fossil). Name preoccupied; probably a synonym of *Mesolophodus* Woodw.

Cranodus Trautschold, 54; orthotype *C. zonopus* Trautschold (fossil).

Chiastodus Trautschold, 58; orthotype *C. obvallatus* Trautschold (fossil).

Arpagodus Trautschold, 59; orthotype *A. RECTANGULUS* Trautschold (fossil). A synonym of *CAMPODUS* Koninek.

1290. WAAGEN (1879). *Paleontology of India*.

W. WAAGEN (1841-1900).

Helodopsis Waagen, I, 14; logotype *H. ELONGATA* Waagen (fossil).

Thaumatacanthus Waagen, I, 78; orthotype *T. BLANFORDI* Waagen (fossil)

1880.

1291. BLEEKER (1880). *Musei Hamburgensis species piscium novæ minusque cognitæ descripsit et depingi curavit*. Abh. Naturw. Ver. Hamburg, 1880, VII, 25-30

PIETER BLEEKER.

Hemiglyphidodon Bleeker, 8; orthotype *H. PLAGIOMETOPON* Blkr.

1292. COLLETT (1880). *Den Norske Nordhavs Expedition, 1876-1878. Zoologi, Fiske*. Christiania.

ROBERT COLLETT.

Rhodichthys Collett, 154; orthotype *R. REGINA* Collett.

1293. COPE (1880). *Second Contribution to the History of the Vertebrata of the Permian Formation of Texas*. Proc. Amer. Philos. Soc., XIX, 38-58.

EDWARD DRINKER COPE.

Ectosteorhachis Cope, 52; orthotype *E. NITIDUS* Cope (fossil). A synonym of *PARABATRACHUS* Owen.

1294. FONTANNES (1880). *Nouvelle contribution à la faune et à la flore des marnes pliocènes à Brissopsis d'Eurre (Drôme). Type nouveau de la famille des Clupeoides*. Ann. Soc. Agric. Hist. Nat. Lyon, V, 423-425.

CHARLES FRANCISQUE FONTANNES (1839-1886).

Clupeops (Sauvage), Fontannes, 209; orthotype *C. INSIGNIS* Sauvage (fossil). Miocene from le Bassin de Crest at Eurre, Drôme (publication needs verification).

1295. GARMAN (1880). *Synopsis and Descriptions of the American Rhinobatidæ*. Proc. U. S. Nat. Mus.

SAMUEL GARMAN.

Platyrhinoidis Garman, 516; orthotype *PLATYRHINA TRISERIATA* J. & G.

Discobatus Garman, 523; orthotype *RAJA SINISIS* Lac.; substitute for *PLATYRHINA* M. & H., regarded as preoccupied by *PLATYRHINUS*; but *ANALITHIS* Gistel (1848) is a still earlier substitute name.

1296-1297. GIGLIOLI (1880). *Elenco dei mammiferi, degli uccelli e dei rettili ittiofagi . . . et catalogo . . . dei pesci italiani*.^{*} Esposizione Internazionale della Pesca, Berlin.

Pomatomichthys Giglioli, 20; orthotype *P. CONSTANCIE* Giglioli = *POMATOMUS TELESCOPIUM* Risso. A synonym of *EPIGONUS* Raf.

Thynnichthys Giglioli, 25; orthotype *THYNNUS THUNNINA* Cuv. & Val. = *SCOMBER ALLETERATUS* Raf. Name preoccupied; a synonym of *EUTHYNNUS* Lütken (1883).

Pelamichthys Giglioli, 25; orthotype *SCOMBER UNICOLOR* Geoffroy St. Hilaire. A synonym of *ORCYNOPSIS* Gill, 1862.

1298. GOODE (1880). *Fishes from the Deep Water on the South Coast of New England Obtained by the United States Fish Commission in the Summer of 1880*. Proc. U. S. Nat. Mus., 1880, III, 467-486.

GEORGE BROWN GOODE.

Amitra Goode, 478; orthotype *A. LIPARINA* Goode. Name regarded as preoccupied by *AMITRUS*; replaced by *MONOMITRA* Goode, 1883.

1299. GOODE (1880). *Descriptions of Seven New Species of Fishes from Deep Soundings on the Southern New England Coast, With Diagnosis of Two Undescribed Genera of Flounders and a Genus Related to Merluccius*. Proc. U. S. Nat. Mus. 1880, III, 337-350.

Monolene Goode, 338; orthotype *M. sessilicauda* Goode.

Thyris Goode, 344; orthotype *T. pellucidus* Goode; larva of *MONOLENE* Goode.
Name preoccupied, replaced by *DELOTHYRIS* Goode, 1883.

Hypsicometes Goode, 347; orthotype *H. gobioides* Goode.

1300. GÜNTHER (1880). *Report on the Shore Fishes*. (In *Zoölogy of the Voyage of H. M. S. Challenger*. 1, 1-82.

ALBERT GÜNTHER.

Bathyanthias Gunther, 6; orthotype *B. roseus* Gthr.

Zanclorhynchus Gunther, 15; orthotype *Z. spinifer* Gthr.

Murænolepis Gunther, 17; orthotype *M. marmoratus* Gthr.

Lepidopsetta Gunther, 18; orthotype *L. maculata* Gthr. Name preoccupied among flounders; replaced by *MANCOPSETTA* Gill.

Thysanopsetta Gunther, 22; orthotype *T. naresi* Gthr.

Lophonectes Gunther, 28; orthotype *L. gallus* Gthr.

Læops Gunther, 28; orthotype *L. parviceps* Gthr.

Propoma Gunther, 39; orthotype *P. roseum* Gthr.

Lioscorpis Günther, 40; orthotype *L. longiceps* Gthr.

Acanthaphritis Günther, 43; orthotype *A. grandisquamis* Gthr.

Tetrabrachium Gunther, 45; orthotype *T. ocellatum* Gthr.

Anticitharus Gunther, 47; orthotype *A. polyspilus* Gthr.

Pæcilopsetta Gunther, 48; orthotype *P. colorata* Gthr.

Nematops Gunther, 57; orthotype *N. microstoma* Gthr.

1301 HAY (1880). *On a Collection of Fishes from Eastern Mississippi*. Proc. U. S. Nat. Mus., 1880, III, 488-515.

OLIVER PERRY HAY (1846-).

Opsopæodus Hay, 507; orthotype *O. emiliæ* Hay.

1302. HECTOR (1880). *Notice of a New Fish (Hypolycodes hoostii)*. Trans. Proc. New Zealand Instit., 1880 (1881), 13, 194-195.

JAMES HECTOR.

Hypolycodes Hector, 194; orthotype *H. haastii* Hector.

1303 HILGENDORF (1880). *Ueber eine neue berkenwerthe Fischgattung, Leucopsarion, von Japan*. Monatsb. Akad. Wiss. Berlin.

FRANZ MARTIN HILGENDORF

Leucopsarion Hilgendorf, 340; orthotype *L. petersi* Hilgendorf.

1304 JORDAN & GILBERT (1880). *Notes on a Collection of Fishes from San Diego, California*. Proc. U. S. Nat. Mus., III, 1880, 23-34

DAVID STARR JORDAN; CHARLES HENRY GILBERT.

Roncador Jordan & Gilbert, 28; orthotype *Corvina stearnsi* Steind.

Leuresthes Jordan & Gilbert, 29; orthotype *Atherina tenuis* Ayres.

1305 JORDAN & GILBERT (1880). *Description of a New Flounder (Xystreurus liolepis) from Santa Catalina, California*. Proc. U. S. Nat. Mus., 1880, III, 34-36

DAVID STARR JORDAN; CHARLES HENRY GILBERT.

Xystreurus Jordan & Gilbert, 34; orthotype *X. liolepis* J. & G

1306. JORDAN & GILBERT (1880). *Description of a New Flounder (Pleuronichthys verticalis) from the Coast of California, with Notes on Other Species.* Proc. U. S. Nat. Mus., 1880, III, 49-51.

DAVID STARR JORDAN; CHARLES HENRY GILBERT.

Atheresthes Jordan & Gilbert, 51; orthotype *PLATYSOMATICHTHYS STOMIAS* J. & G.

1307. JORDAN & GILBERT (1880). *On the Generic Relations of Platyrrhina exasperata.* Proc. U. S. Nat. Mus., LIII.

DAVID STARR JORDAN; CHARLES HENRY GILBERT.

Zapteryx Jordan & Gilbert, 53; orthotype *PLATYRRHINA EXASPERATA* J. & G.

1308. JORDAN & GILBERT (1880). *Descriptions of Two New Species of Fishes (Ascelichthys rhodorus and Scytalina cerdale) from Neah Bay, Washington Territory.* Proc. U. S. Nat. Mus., 1880, III, 264-268.

DAVID STARR JORDAN; CHARLES HENRY GILBERT.

Ascelichthys Jordan & Gilbert, 264; orthotype *A. RHODORUS* J. & G.

Scytalina Jordan & Gilbert, 266; orthotype *S. CERDALE* J. & G. Name regarded as preoccupied by *SCYTALINUS*, replaced by *SCYTALISCUS* J. & G.

1309. JORDAN & GILBERT (1880). *Description of a New Species of Deep-water Fish (Icichthys lockingtoni) from the Coast of California.* Proc. U. S. Nat. Mus., 1880, III, 305-308.

DAVID STARR JORDAN; CHARLES HENRY GILBERT.

Icichthys Jordan & Gilbert, 305; orthotype *I. LOCKINGTONI* J. & G.

1310. KLUNZINGER (1880). *Die von müllersche Sammlung australischer Fische in Stuttgart.* Sitzb. Akad. Wiss. Wien, LXXX, 325-430.

CARL BENJAMIN KLUNZINGER.

Platychærops Klunzinger, 399; orthotype *P. MUELLERI* Klunzinger.

1311. KÆNEN (1880). *Ueber Coccosteus-Arten aus dem Devon von Birken.* Zeitschr. Deutsch. Geol. Ges., 1880, XXXII, 673-675.

ADOLF VON KÆNEN (1837-1915).

Brachydirus Kænen, 675; orthotype *COCCOSTEUS BIRKENSI* Kænen (fossil).

1312. LOCKINGTON (1880). *Description of a New Genus and Some New Species of California Fishes (Icosteus enigmaticus and Osmerus attenuatus).* Proc. U. S. Nat. Mus., 1880, III, 63-68.

WILLIAM NEALE LOCKINGTON.

Icosteus Lockington, 63; orthotype *I. ENIGMATICUS* Lockington.

1313. LOCKINGTON (1880). *Description of a New Chiroid Fish (Myriolepis zonifer) from Monterey Bay, California.* Proc. U. S. Nat. Mus., 1880, III, 248-251.

WILLIAM NEALE LOCKINGTON.

Myriolepis Lockington, 248; orthotype, *M. ZONIFER* Lockington. Based on a young specimen; name preoccupied, replaced by *ERILEPIS* Gill, which supplants *EBISUS* Jordan & Snyder, 1901, the adult fish.

1314. PETERS (1880). *Ueber die von der chinesischen Regierung zu der internationalen Fischerei-Ausstellung gesandte Fische Sammlung aus Ningpo.* Monatsb. Akad. Wiss. Berlin, 1880, 921-927.

WILHELM (CARL HARTWIG) PETERS.

Distæchodon Peters, 924; orthotype *D. TUMIROSTRIS* Peters.

Mylopharyngodon Peters, 925; orthotype *LEUCISCUS ÆTHIOPS*.

1315. PETERS (1880). *Ueber eine Sammlung von Fischen, welche Dr. Gerlach in Hongkong gesandt hat.* Monatsb. Akad. Wiss. Berlin, 1880, 1029-1037.

WILHELM (CARL HARTWIG) PETERS.

Semilabeo Peters, 1032; orthotype *S. NOTABILIS* Peters.

Cranoglanis Peters, 1030; orthotype *C. SINENSIS* Peters.

1316. ROCHEBRUNE (1880). *Description de quelques espèces nouvelles de poisson propres à Sénégal.* Bull. Soc. Philom. Paris, 1880, sér. 7, IV, 159-169.

ALPHONSE TRÉMEAU DE ROCHEBRUNE (1834-).

Sparactodon Rochebrune, 162; orthotype *S. NALNAL* Rochebrune. A synonym of *POMATOMUS* Lac.

1317. ST. JOHN & WORTHEN (1880). *Descriptions of Fossil Fishes.* Geological Survey of Illinois, VII.

ORESTES H. ST. JOHN; A. H. WORTHEN.

Vaticinodus St. John & Worthen, 80; logotype *V. TENERRIMUS* St. John & Worthen (fossil). A synonym of *SANDALODUS* Newberry & Worthen.

Stenopterodus St. John & Worthen, 100; orthotype *S. ELONGATUS* St. John & Worthen (fossil). A synonym of *DELTOBUS*.

Chitonodus St. John & Worthen, 102; logotype *COCHLIODUS LATUS* Leidy (fossil).

Deltodopsis St. John & Worthen, 158; logotype *D. AFFINIS* St. John & Worthen (fossil).

Orthopleurodus St. John & Worthen, 190; logotype *O. CONVEXUS* St. John & Worthen (fossil). A synonym of *SANDALODUS*.

1318. SAUVAGE (1880). *Description des gobioides nouveaux ou peu connus de la collection du Muséum d'Histoire Naturelle.* Bull. Soc. Philom. Paris, 1880, sér. 7, IV, 40-58.

HENRI ÉMILE SAUVAGE.

Cayennia Sauvage, 57; orthotype *C. GUICHENOTI* Sauvage.

1319. SAUVAGE (1880). *Description de quelques poissons d'espèces nouvelles, etc.* Bull. Sci. Philom. Paris, IV.

HENRI ÉMILE SAUVAGE.

Pseudopristipoma Sauvage, 220; orthotype *PRISTIPOMA LEUCURUM* Cuv. & Val.

1320. SAUVAGE (1880). *Notice sur quelques poissons de l'île Campbell et de l'Indo-Chine.* Bull. Soc. Philom. Paris, 1880, sér. 7, IV, 228-233.

HENRI ÉMILE SAUVAGE.

Paratylognathus Sauvage, 227; orthotype *P. DAVIDI* Sauvage.

Probarbus Sauvage, 232; orthotype *P. JULLIENI* Sauvage.

1321. SAUVAGE (1880). *Notice sur les poissons tertiaires de Cèreste (Basses Alpes).* Bull. Soc. Géol. France (3), VIII, 1880.

HENRI ÉMILE SAUVAGE.

Enoplophthalmus Sauvage, 449; orthotype *E. SCHLUMBERGERI* Sauvage (fossil).

Properca Sauvage, 452; logotype *PERCA ANGUSTA* Ag. (fossil).

1322. SAUVAGE (1880). *Synopsis des poissons et des reptiles des terrains jurassiques de Boulogne-sur-Mer.* Bull. Soc. Géol. Paris, 1880, sér. 3, VIII, 524-547.

HENRI ÉMILE SAUVAGE.

Athrodon Sauvage, 530; orthotype *A. DUVILLI* Sauvage (fossil).

1323. SAUVAGE (1880). *Nouvelles recherches sur les poissons fossiles découverts par M. Alby à Licota en Sicilie*. Ann. Soc. Géol. XI.

HENRI ÉMILE SAUVAGE.

Podopteryx Sauvage, 17; orthotype *P. ALBYI* Sauvage (fossil).

Parequula Sauvage, 25; orthotype *P. ALBYI* Sauvage (fossil); name preoccupied, Steindachner, 1879.

Paraleuciscus Sauvage, 38; orthotype *P. ECNOMI* Sauvage (fossil).

1324. STEINDACHNER (1880). *Ichthyologische Beiträge*. VIII. Sitzb. Akad. Wiss. Wien, LXXX, 119-191.

FRANZ STEINDACHNER.

Typhlogobius Steindachner, 141; orthotype *T. CALIFORNIENSIS* Steind.; replaces *OTTHONOPS* Rosa Smith.

1325. STEINDACHNER (1880). *Ichthyologische Beiträge*. IX. Sitzb. Akad. Wiss. Wien, LXXXII (July 15, 1880), 238-266.

FRANZ STEINDACHNER.

Ptychochromis Steindachner, 248; orthotype *TILAPIA OLIGACANTHUS* Blkr.

Ancharius Steindachner, 251; orthotype *A. FUSCUS* Steind.

Hypoptychus Steindachner, 257; orthotype *H. DYBOWSKII* Steind.

Neozoarces Steindachner, 263; orthotype *N. PULCHER* Steind.

1326. STOCK (1880). *Note on a Spine . . . from the Coal Measures of North-umberland*. Ann. Mag. Nat. Hist., V.

THOMAS STOCK.

Lophacanthus Stock, V, 217; orthotype *L. TAYLORI* Stock (fossil). A synonym of *ORACANTHUS* Ag.

1327. THOMINOT (1880). *Note sur un poisson de genre nouveau appartenant à la famille des scombrés, voisin des sérioles*. Bull. Soc. Philom. Paris, 1880, sér. 7, IV, 173-174.

ALEXANDRE THOMINOT.

Lepidomegas Thominot, 173; orthotype *L. MUELLERI* Thominot. A synonym of *SERIOLA* Cuv.; based on a very old example with the free spines absorbed.

1328. TRAUTSCHOLD (1880). *Ueber Tomodus Agass.* Bull. Soc. Imp. Moscou. LV, 139-140.

HERMANN VON TRAUTSCHOLD.

Oxytomodus Trautschold, 140; orthotype *TOMODUS ARGUTUS* Trautschold (fossil).

OMISSIONS

1758

1. LINNÆUS (1758). *Systema Naturæ*. Ed. X.

CAROLUS LINNÆUS.

Myxine Linnæus, 650; orthotype *M. GLUTINOSA* L. Overlooked in Part I, p. 16, being placed by Linnæus among the worms.

1777

23. KLEIN (1777). *Schauplatz*, IV, etc.

JAKOB THEODOR KLEIN.

Cynocephalus Klein; type **SQUALUS GLAUCUS** L. The name **CYNOCEPHALUS** was applied to a genus of bats by Boddaert in 1768.

1803

62. **GIORNA** (1803). *Mémoire*, etc.

MICHEL ESPRIT GIORNA.

Trachyrincus Giorna. This is the original spelling, and the apparent date is 1803.

1815

83. **RAFINESQUE** (1815). *Descrizione*, etc.

CONSTANTINE SAMUEL RAFINESQUE.

Nemochirus Rafinesque; a synonym of **TRACHIPTERUS** Gouan, according to Hubbs.

1839

251. **SWAINSON** (1839). *Natural History*, etc.

WILLIAM SWAINSON.

Lepidosoma ("Risso") Swainson; haplotype "**LEPIDOSOMA TRACHYRHYNCHUS** Risso." Evidently a slip for **LEPIDOLEPRUS** Risso.

1843

295. **AGASSIZ** (1843). *Recherches*, etc., III.

LOUIS AGASSIZ.

Physonemus Agassiz, 176; haplotype **P. SUBTERES** Ag. (fossil). Name only; with locality, lower Subcarboniferous of Armagh, described later by McCoy, 1848, with a different type, probably not congeneric with it.

Glyphis Agassiz, III, 243; orthotype **G. HASTALIS** Ag. (fossil)

1844

318A. **MÜLLER** (1844). *Ueber den Bau und die Grenzen der Ganoiden und das natürliche System der Fische*. Abh. Akad. Wiss. Berlin, 1844, 117-216, reprinted elsewhere.

JOHANNES MÜLLER.

This epoch-making memoir is the most important of Muller's contributions to Ichthyology. In it he continues his bad habit of inserting new genera in brief footnotes irrelevant to the text.

Tribranchus (Peters) Müller; orthotype **T. ANGUILLARIS** Peters. **ANGUILLA AUSTRALIS** Rich. A synonym of **ANGUILLA** Shaw.

324. **RICHARDSON** (1844). *Voyage Erebus*, etc.

JOHN RICHARDSON.

Rhynchana Richardson, 44; orthotype **R. GREYI** Rich. **CYPRINUS GONORHYNCHUS** Gmelin. A synonym of **GONORHYNCHUS** (Gronow) Scopoli.

1846

351. **CUVIER & VALENCIENNES** (1846). *Histoire naturelle*, etc. XVIII, XIX.

ACHILLE VALENCIENNES.

Panchax Cuvier & Valenciennes, XVIII, 380; tautotype **ESOX PANCHAX** Ham. — **PANCHAX BUCHANANI** Cuv. & Val., a synonym of **APLOCHEILUS** McClelland.

Vandellia Cuvier & Valenciennes, XVIII, 386; haplotype **V. CIRRHOSA** Cuv. & Val

1847

375. **MEYER** (1847). *Vorläufige Uebersicht*, etc.

HERMANN VON MEYER.

Cenchrodus Meyer, 574, logotype **C. GÖPPERTI** Meyer (fossil).

Hemilopas Meyer, 575; orthotype *H. MENTZELI* Meyer (fossil). (This and the preceding indeterminable fragments of a jaw, probably of *COLOLOBUS* Ag.)

1848

390. M'COY (1848). 411 M'Coy with *CENTRODUS* is the same paper as 390, the proper date being 1848.

391. M'COY (1848). *Ichthyodorulites*, etc.

FREDERICK M'COY.

Platacanthus M'Coy, 120; as originally written, later emended to *PLATYACANTHUS*.

Dipriacanthus M'Coy, 121; logotype *D. STOKESII* M'Coy (fossil).

391. M'COY (1848). *Scotch Old Red Sandstone*, etc.

FREDERICK M'COY.

Chirodus M'Coy, 130; orthotype *C. PES-RANÆ* M'Coy. This name was originally and correctly spelled *CHIRODUS*.

1849

427A. GEINITZ (1849). *Das Quadersandsteingebirge*.

HANS BRUNO GEINITZ.

Aulolepis Geinitz, 86; orthotype *A. REUSII* Geinitz. "*CYCLOIDEN-SCHUPPE*" Geinitz, 1839 = *CYCLOLEPIS* Geinitz, 1868. *AULOLEPIS* apparently replaces *CYCLOLEPIS* Geinitz, 1868.

1851

439. BLEEKER (1851). *Borneo*, II, etc.

PIETER BLEEKER.

Clupeoides Bleeker, 275; orthotype *C. BORNEËNSIS* Blkr. is a valid genus distinct from *CORICA*, according to Weber.

1852

464. GERVAIS (1852). *Zoologie et Paléontologie Françaises*. I.

FRANÇOIS LOUIS PAUL GERVAIS.

Onchosaurus Gervais, 268; orthotype *O. RADICALIS* Gervais (fossil). Wrongly identified as the tooth of a Mososaur. Replaces *ISCHYRHIZA* Leidy.

1853

482A. M'COY (1853). *On the Supposed Fish Remains Figured on Plate 4 of the Silurian System*. Quart. Journ. Geol. Soc., IX.

FREDERICK M'COY.

Leptocheles M'Coy, 14; orthotype *L. MURCHISONI* M'Coy (fossil). A synonym of *ONCHUS*.

483. OWEN (1853). *Notice of a Batrachoid in British Coal Shale*. Quart. Journ. Geol. Soc., IX, 67-70.

RICHARD OWEN.

Parabatrachus Owen, 67, etc.

1854

503. GIRARD (1854). *Enumeration*, etc.

CHARLES GIRARD.

Heterostichus is misspelled on page 258.

512A. MORRIS (1854). *Catalogue of British Fossils.*

JOHN MORRIS.

Gyrosteus (Agassiz) Morris, 328; orthotype *G. MIRABILIS* Ag. First validation of *GYROSTEUS* and perhaps of some other nominal genera of Agassiz. See No. 614.

1855

521. AYRES (1855). *Description, etc.*

WILLIAM O. AYRES.

Cebidichthys Ayres. This is the original and correct spelling, not *CEBEDICHTHYS*.

530. BLEEKER (1855). *Sumatro, etc*

PIETER BLEEKER.

Clupeichthys Bleeker, 275; orthotype *C. GONIOGNATHUS* Blkr. This is a valid genus, according to Weber, distinct from *CORICA*.

535A. GERVAIS (1855). *Description d'un poisson fossile du terrain crétacé de la Drome, etc.* Ann. Sci. Nat., III.

FRANÇOIS PAUL LOUIS GERVAIS.

Histiaiosa Gervais, 322; orthotype *H. THIOLLERI* Gervais (fossil).

543. PETERS (1855). *Uebersicht, etc.*

WILHELM PETERS.

Opsaridium Peters, 269; orthotype *O. ZAMBEZENSE* Peters. Description given as from manuscript by Gunther, 1868.

1856

561. HECKEL (1856). *Pycnodonten, etc.*

JOHANN JAKOB HECKEL.

Stemmatodus Heckel, 202; orthotype *PYCNODUS RHOMBUS* Ag. This generic name is not preoccupied. *STEMMATODUS* St. John & Worthen (1875) is preoccupied and replaced by *STEMMATIAS* Hay, 1899.

572. PANDER (1856). *Monographie, etc.*

CHRISTIAN HEINRICH PANDER.

Besides the nominal genera of Russian Silurian fossils listed by Woodward, the following additional names are given by Marshall. These we are not able to verify.

DREPANODUS, 20.*ACODUS*, 21.*MACHAIRODUS*, 22.*PALTODUS*, 24.*ACONTIODUS*, 28.*PRIONIODUS*, 29.*BELODUS*, 30.*CTENOGNATHUS*, 32.*GNATHODUS*, 33.*PRIONOGNATHUS*, 34.*STROSIPHERUS*, 73.*MONOPLEURODUS*, 78.

1857

582A. GIEBEL (1857). *Dichelodus, ein neuer Fisch im Mansfelder Kupferschiefer*, Zeitschr. Gesammt. Naturw., IX, 121-126.

CHRISTOPH (GOTTFRIED ANDREAS) GIEBEL.

Dichelodus Giebel, 121; orthotype *D. ACUTUS* Giebel (fossil).

583. GIRARD (1857). *Contributions*, etc.

CHARLES GIRARD.

Chiropsis Girard, 201; haplotype, as indicated in the *Pacific R. R. Survey*, is
CHIRUS PICTUS Grd. = **LABRUS SUPERCILIOSUS** Pallas.

1859

664A. PAGE (1859). (*Fossil Fishes; Old Red Sandstone of Scotland.*) Rept.
 Brit. Assn. Adv. Sci., 1858 (1859).

D. PAGE.

Ictinocephalus Page, 104; orthotype **I. GRANULATUS** Page (fossil). Name only,
 identical with **ISCHNACANTHUS** Powrie, 1864.

1863

Blepharichthys Gill, misprinted in text on page 302.

1866

834. KNER & STEINDACHNER. *Neue Gattungen*, etc. Ahh. Königl. Bayerischen
 Akad. Wiss. München, X.

RUDOLPH KNER; FRANZ STEINDACHNER.

The correct date of this paper is 1866, the second part issued in 1868,
 the whole with title page in 1870, according to HUSSAKOF.

1874

1128 and 1129 LÜTKEN (1874). **LEPORELLUS** Lütken, 129 should come under
 No. 1129, and **GLANIDIUM** Lütken, 31, and **BAGROPSIS** Lütken, 32, should
 come under 1128, a slip made in printing.

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